Technical Memorandum

Co-Located Chemical Sampling Results at Historical Site Assessment Subarea 5D North and 5D South in Area IV

Santa Susana Field Laboratory
Ventura County, California

Prepared for:

Department of Energy
Energy Technology and Engineering Center
P.O. Box 10300
Canoga Park, California 91309

Prepared by:

CDM Federal Programs Corporation (CDM Smith)

Prepared under:

US Department of Energy
EM Consolidated Business Center
Contract DE-AM09-05SR22404
CDM Task Order DE-AT30-08CC60021/ET17

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I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

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Acronyms and Abbreviations

%D	percent difference/percent drift
%R	percent recovery
mg/L	milligram per liter
ng/kg	nanogram per kilogram
ng/L	nanogram per liter
pg/L	picogram per liter
µg/L	micrograms per liter
AOC	Administrative Order on Consent
ASTM	American Society for Testing and Materials
bgs	below ground surface
CDM Smith	CDM Federal Programs Corporation
CoC	chain of custody
DOE	Department of Energy
DPT	direct push technology
DQI	data quality indicator
DQO	data quality objective
DTSC	Department of Toxic Substances Control
DUAR	data usability assessment review
EDL	estimated detection limit
EFH	extractable fuel hydrocarbon
EPA	U.S. Environmental Protection Agency
FTL	field team leader
GRO	gasoline range organics
HGL	HydroGeoLogic, Inc.
HSA	Historical Site Assessment
ICP	inductively coupled plasma
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LLI	Lancaster Laboratories, Inc.
MDL	method detection limit
mL	milliliters
MS	matrix spike
MSD	matrix spike duplicate
NDMA	n-Nitrosodimethylamine
PAH	polycyclic aromatic hydrocarbon
PARCCS	precision, accuracy, representativeness, comparability, completeness and sensitivity
PCB	polychlorinated biphenyl
PCT	polychlorinated triphenyl
PID	photoionization detector
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control
RCRA	Resource Conservation and Recovery Act

RFI	RCRA Facility Investigation
RL	reporting limit
RL-LCS	reporting limit laboratory control sample
RL-MS	reporting limit matrix spike
RPD	relative percent difference
SDG	sample delivery group
SIM	selective ion monitoring
SOW	statement of work
SSFL	Santa Susana Field Laboratory
SVOC	semi-volatile organic compound
TM	technical memorandum
TPH	total petroleum hydrocarbon
VOC	volatile organic compound
WP/FSAP	Work Plan/Field Sampling and Analysis Plan

Section 1
Introduction

This Technical Memorandum (TM) presents the results of chemical analyses of surface and subsurface soil, and soil from intermittent drainages collected under the *Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Federal Programs Corporation [CDM] 2011a) (WP/FSAP), *Addendum No. 4 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, EPA Subarea 5D North Soil Sampling* (CDM 2011b) (WP/FSAP Addendum) and *Addendum No. 6 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV Santa Susana Field Laboratory, Ventura County, California, EPA Subareas 3, 5D South, 7 and 8 South Soil Sampling* (CDM 2011c).

This TM addresses sampling within U.S. Environmental Protection Agency (EPA) Historical Site Assessment (HSA) Subareas 5D North and 5D South of Area IV at Santa Susana Field Laboratory (SSFL) and provides a description of the sampling activities, the analytical results, and a discussion of the analytical data review findings. The TM does not provide an interpretation of the results. The data provided in this TM are intended to be combined with data collected under the prior Resource Conversation and Recovery Act (RCRA) Facility Investigation (RFI) efforts within the Area IV soil chemical database. A data gap analysis will be performed to assess the adequacy of Area IV data as a whole in defining the nature and extent of chemicals in soil for purposes of remedy determination.

1.1 Co-Located Soil Chemical Sampling Objectives

The radiological characterization study being performed by EPA includes collection of surface and subsurface soil, as well as drainage soil samples throughout Area IV of SSFL and the Northern Buffer Zone for analysis of radionuclides. The California Department of Toxic Substances Control (DTSC) and Department of Energy (DOE) agreed in the *Administrative Order on Consent for Remedial Action (AOC,* Docket Number HSA-CO 10/11-037) (DTSC 2010) that soil/sediment samples collected by EPA will also be analyzed for chemical analytes. EPA's contractor, HydroGeoLogic, Inc. (HGL) was responsible for the collection of the EPA-proposed soil samples. DTSC and DOE agreed that the chemical analyses of the soil samples provided by EPA would be done by DOE's contractor, CDM. CDM was responsible for the management, shipment, and laboratory analyses of the samples collected for chemical analyses.

The AOC was signed by DTSC and DOE on December 6, 2010. The AOC is a legally binding order that requires and describes the characterization of Area IV and Northern Buffer Zone soils/sediments and further defines DOE's obligations in relation to radiologic and chemical cleanup of soils within these areas. It also stipulates that during Phase 1 of the chemical investigation activities, DOE is to analyze soil samples for chemical constituents at locations where EPA collects a sample for radiological analysis.

1.2 Basis for HSA Subareas 5D North and 5D South Soil Sampling

HGL's *Field Sampling Plan for Soil Sampling, Area IV Radiological Study, Santa Susana Field Laboratory, Ventura County, California* (HGL 2010) includes a description of the project objectives, the scope of work, laboratory analytical suites, sample collection and other standard field operation methods for EPA's radiological characterization study.

Subarea 5D North FSP Addendum, Santa Susana Field Laboratory Site, Area IV Radiological Study (HGL 2011a) and *Subarea 5D South FSP Addendum, Santa Susana Field Laboratory Site, Area IV Radiological Study* (HGL 2011b) were prepared by HGL to support the radiological soil sampling field implementation program specific to Subareas 5D North and 5D South. These addenda provide the technical justification for location of the drainage, surface, and subsurface soil samples in Subareas 5D North and 5D South. CDM obtained split soil samples for chemical analysis at each location where HGL collected soil samples for radionuclides analyses.

1.3 Geology

Subarea 5D North is within the Chatsworth Formation, which comprises sandstone interbedded with siltstone and shale. The overlying native soils encountered range from clayey sand and silts with increasing clay at greater depths. Disturbed locations comprise fill soils of unknown origin and debris such as concrete, asphalt, igneous gravel, wood, and charcoal. The observed contact with the bedrock formation occurs between 1.0 foot and 24 feet below ground surface (bgs). Areas where refusal was met at greater than 12 feet bgs are all located within the vicinity of former Building 4020 and comprise predominantly non-native materials.

Subarea 5D South is predominately within the Santa Susana Formation, which is primarily a greenish-brown siltstone with lenses of white limestone. The overlying native soils encountered in this subarea range from silty sand to silts and some clay. The observed contact with the bedrock formation occurs between 0.5 foot and 10.0 feet bgs. Non native materials (gravel) were observed in only trace quantities with this subarea.

Additional information regarding the geology in Area IV can be found in Volume I of *Group 8 – Western Portion of Area IV RCRA Facility Investigation Report Santa Susana Field Laboratory, Ventura County, California* (CH2M Hill 2007).

1.4 Technical Memorandum Organization

This TM includes the following sections:

- **Section 1 - Introduction** – Summarizes the basis and objectives of the co-located soil sampling in Subareas 5D North and 5D South
- **Section 2 - Field Sampling and Analytical Methods** – Provides details regarding field sampling procedures and laboratory analytical methods
- **Section 3 - Soil Sample Analytical Results** – Provides a summary of detected analytical results for each chemical; the appendices provide the overall results

- **Section 4 - Data Usability Assessment** – Discusses the results of the data review and validation processes
- **Section 5 - References**

Section 2
Field Sampling and Analytical Methods

Soil samples were collected from surface and drainage locations in Subarea 5D North between May 17 and June 3, 2011 and on August 22, 2011. Subsurface sampling was performed from May 16 through June 30, July 5 through July 11, and July 27 through August 11, 2011. All Subarea 5D North sample locations are shown on Figure 2-1.

Soil samples at surface and drainage locations in Subarea 5D South were collected September 26 through 28, and November 9 and 10, 2011. Subsurface sampling was performed between October 14 and October 20, 2011 and between November 8 and November 14, 2011. All Subarea 5D South sample locations are shown on Figure 2-2.

Table 2-1 (5D North) and Table 2-2 (5D South) provide EPA's rationale for sampling at each location, sample number, date of soil samples collected, location description, description of any fill materials encountered, reasons for not sampling some of the locations proposed by EPA, and the required analyses.

All soil sampling equipment described in Sections 2.1 and 2.2 that came into contact with sample materials was decontaminated prior to sample collection in accordance with the WP/FSAP.

2.1 Surface and Drainage Sampling

Surface soil and drainage samples in Subareas 5D North and 5D South were collected from the ground surface to 6 inches bgs. The surface of the sample area was prepared by HGL sampling personnel by removing leaves, grass, and any other surface debris. Surface samples to be analyzed for semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs)/polychlorinated triphenyls (PCTs) were collected first using a slide hammer equipped with a 2-inch diameter and 6-inch long stainless steel sample liner. The sampler was pounded into the soil until its top was flush with the ground surface and then removed from the soil. The sample sleeve was removed from the sampler and both ends capped with a Teflon® liner and a plastic cap.

The soil sample for the remaining analytes was collected from a circular hole, approximately 12 inches in diameter to a depth of 6 inches bgs, using a stainless steel trowel and transferred to a stainless steel bowl and homogenized. Debris, wood, or other materials larger than 0.25 inch were removed prior to homogenization. After homogenization, the sample was placed into one or more 16-ounce glass jars. Adhesive sample labels, completed with all sampling information, were affixed to both the sample sleeves and jars. All sleeves and jars were placed into plastic baggies, and placed in a cooler with double bagged ice.

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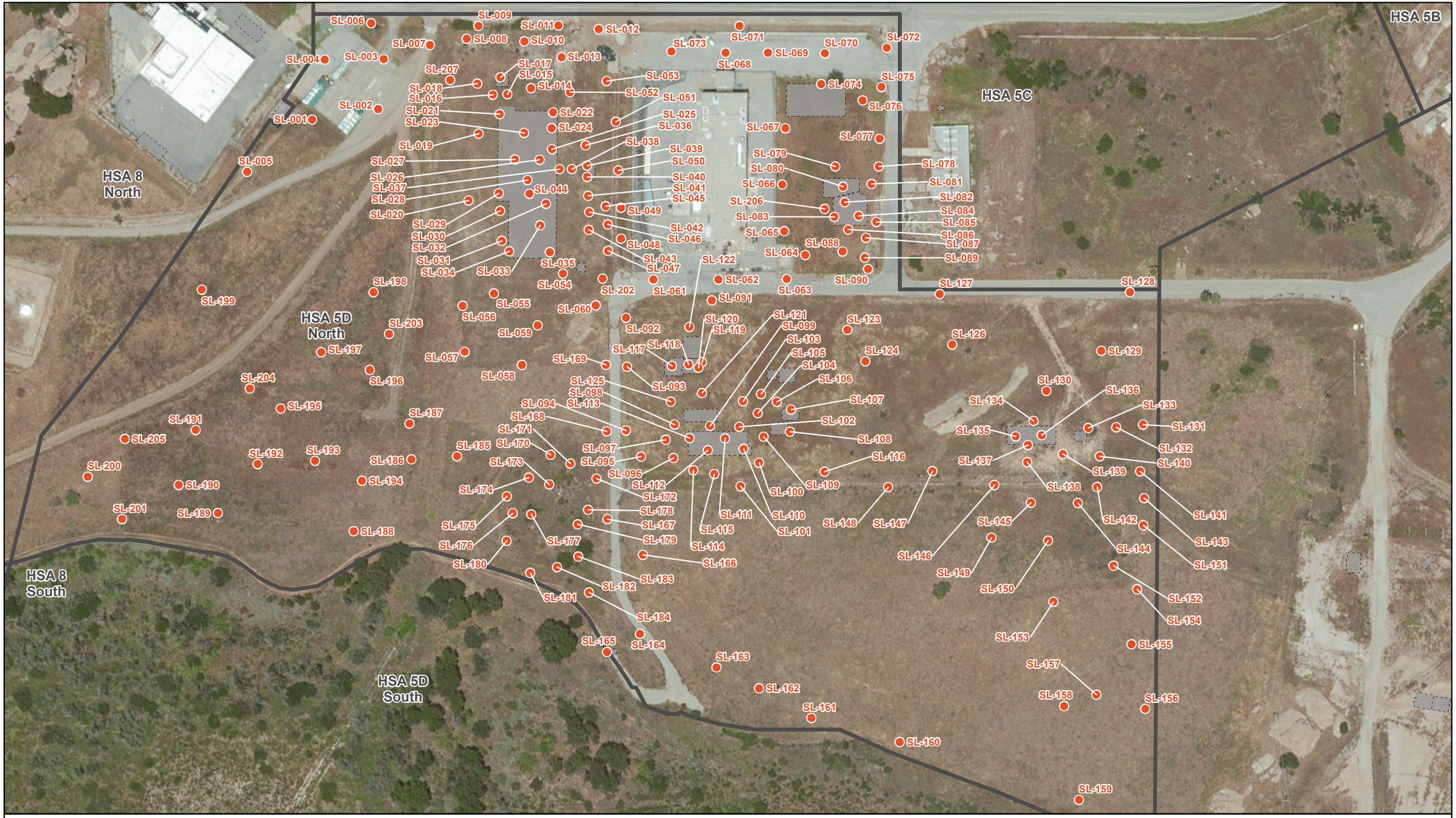

N

Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 5D North Sample Locations

Santa Susana Field Laboratory
Ventura County, California
Figure 2-1

0 30 60 120 180 240 Feet

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N

Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 5D South Sample Locations

Santa Susana Field Laboratory
Ventura County, California
Figure 2-2

0 30 60 120 180 240 Feet

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Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	1	Southwest edge of Parking Lot 4509.	Characterize radiological contamination from historical spills from containers stored on parking lot.	0.5	"2 pieces of glass and 1 piece of plastic"	5/24/11	Primary	SL-001-SA5DN-SS-0.0-0.5
Subsurface	1	Southwest edge of Parking Lot 4509.	Characterize radiological contamination from historical spills from containers stored on parking lot.	10.0	"Charcoal fleck 1/4 " long" at 4.0 ft	5/17/11	VOCs/Dioxane Primary Primary	SL-001-SA5DN-SB-6.0 SL-001-SA5DN-SB-5.5-6.5 SL-001-SA5DN-SB-9.0-10.0
Surface	2	Southeast edge of Parking Lot 4509.	Characterize radiological contamination from historical spills from containers stored on parking lot.	0.5	"20% gravel fill rock"	5/25/11	Primary	SL-002-SA5DN-SS-0.0-0.5
Subsurface	2	Southeast edge of Parking Lot 4509.	Characterize radiological contamination from historical spills from containers stored on parking lot.	10.0	Fill "Clay with sand and gravel, 10% angular coarse gravel fill rock" from surface to 0.5 ft	5/16/11	VOCs/Dioxane Primary Primary	SL-002-SA5DN-SB-4.5 SL-002-SA5DN-SB-4.0-5.0 SL-002-SA5DN-SB-9.0-10.0
Subsurface	3	Northeast side of Parking Lot 4509.	Characterize radiological contamination from historical spills from containers stored on parking lot.	9.0	Fill "Clay with slight odor" from 0.3 to 1.2 ft Refusal on sandstone	5/16/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-003-SA5DN-SB-1.0 SL-003-SA5DN-SB-0.5-1.5 SL-003-SA5DN-SB-8.5 SL-003-SA5DN-SB-8.0-9.0
Surface	4	Northwest edge of Parking Lot 4509.	Characterize radiological contamination from historical spills from containers stored on parking lot.	0.75	"15% gravel fill and asphalt pieces"	5/25/11	Primary	SL-004-SA5DN-SS-0.0-0.5
Subsurface	4	Northwest edge of Parking Lot 4509.	Characterize radiological contamination from historical spills from containers stored on parking lot.	10.0	Fill "10% angular coarse gravel fill rock" from 0 to 1.3 ft Refusal on sandstone	5/16/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-004-SA5DN-SB-4.0 SL-004-SA5DN-SB-3.5-4.5 SL-004-SA5DN-SB-9.5 SL-004-SA5DN-SB-9.0-10.0
Surface	5	Southwest of Parking Lot 4509.	Aerial Photo Feature, "Excavation".	0.5	None indicated	5/25/11	Primary	SL-005-SA5DN-SS-0.0-0.5
Subsurface	5	Southwest of Parking Lot 4509.	Aerial Photo Feature, "Excavation".	10.0	None indicated Refusal on sandstone	5/17/11	VOCs/Dioxane Primary Primary	SL-005-SA5DN-SB-4.5 SL-005-SA5DN-SB-4.0-5.0 SL-005-SA5DN-SB-9.0-10.0
Subsurface	6	Northeast of Parking Lot 4509, in ditch on south side of G Street.	Potential radiological contamination in soil/sediment originating from former Building 4020.	9.75	None indicated Refusal on sandstone	8/11/11	Primary Primary	SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0
Drainage	6	Northeast of Parking Lot 4509, in ditch on south side of G Street.	Potential radiological contamination in soil/sediment originating from former Building 4020.	0.5	"trace asphalt gravel and sandstone fragments"	5/25/11	Primary	SL-006-SA5DN-SS-0.0-0.5
Subsurface	7	East of Parking Lot 4509, in ditch west side of Water Tower Rd.	Characterize potential radiological contamination in soil/sediment originating from Parking Lot 4509.	6.0	None indicated Refusal on sandstone	8/10/11	Primary	SL-007-SA5DN-SB-4.0-5.0
Drainage	7	East of Parking Lot 4509, in ditch west side of Water Tower Rd.	Characterize potential radiological contamination in soil/sediment originating from Parking Lot 4509.	0.5	None indicated	8/22/11	Primary	SL-007-SA5DN-SS-0.0-0.5
Surface	8	North of former Building 4020, in former parking lot.	Aerial Photo Feature, "Possible Open Storage" and proximity to former Building 4020.	0.5	None indicated	5/23/11	Primary	SL-008-SA5DN-SS-0.0-0.5
Subsurface	8	North of former Building 4020, in former parking lot.	Aerial Photo Feature, "Possible Open Storage" and proximity to former Building 4020.	10.0	Fill "silty clay" from 0 to 1 ft	5/31/11	VOCs/Dioxane Primary Primary	SL-008-SA5DN-SB-4.5 SL-008-SA5DN-SB-4.0-5.0 SL-008-SA5DN-SB-9.0-10.0
Subsurface	9	Ditch on the south side of G Street, north of former Building 4020.	Characterize surface water run-off from activities associated with former Building 4020 and parking lot.	10.0	None indicated	8/9/11	Primary	SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-9.0-10.0
Drainage	9	Ditch on the south side of G Street, north of former Building 4020.	Characterize surface water run-off from activities associated with former Building 4020 and parking lot.	0.5	None indicated	5/23/11	Primary	SL-009-SA5DN-SS-0.0-0.5
Surface	10	North of former building 4020.	Aerial Photo Feature, "Possible Open Storage".	0.5	"Gravelly sand, 40% gravel fill"	5/23/11	Primary	SL-010-SA5DN-SS-0.0-0.5
Subsurface	10	North of former building 4020.	Aerial Photo Feature, "Possible Open Storage".	10.0	Fill "well graded sand with gravel, 25% fine to coarse angular gravel fill rock" surface to 1.0 ft	5/31/11	VOCs/Dioxane Primary Primary	SL-010-SA5DN-SB-4.5 SL-010-SA5DN-SB-4.0-5.0 SL-010-SA5DN-SB-9.0-10.0

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	11	North of former Building 4020, in ditch on south side of G Street.	Characterize potential radiological contamination in soil/sediment originating from former Building 4020.	7.0	None indicated Refusal on sandstone	8/9/11	Primary	SL-011-SA5DN-SB-4.0-5.0
Drainage	11	North of former Building 4020, in ditch on south side of G Street.	Characterize potential radiological contamination in soil/sediment originating from former Building 4020.	0.5	None indicated	5/23/11	Primary	SL-011-SA5DN-SS-0.0-0.5
Subsurface	12	In ditch south side of G Street, northwest of former Building 4020.	Characterize potential radiological contamination in soil/sediment originating from former Building 4020.	10.0	"20% gravel fill rock" from 0 to 1.5 ft	8/9/11	GRO Primary&Secondary GRO Primary&Secondary	SL-012-SA5DN-SB-4.5 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.5 SL-012-SA5DN-SB-9.0-10.0
Drainage	12	In ditch south side of G Street, northwest of former Building 4020.	Characterize potential radiological contamination in soil/sediment originating from former Building 4020.	0.5	"15% gravel fill rock"	5/23/11	Primary & Secondary	SL-012-SA5DN-SS-0.0-0.5
Surface	13	North of former Building 4020.	Investigate potential residual radiological contamination associated with Incident A0016.	0.5	"35% gravel fill"	5/23/11	Primary&Secondary	SL-013-SA5DN-SS-0.0-0.5
Subsurface	13	North of former Building 4020.	Investigate potential residual radiological contamination associated with Incident A0016.	10.0	"20% coarse to fine angular gravel fill rock" from 0 to 1.5 ft	5/31/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-013-SA5DN-SB-4.5 SL-013-SA5DN-SB-4.0-5.0 SL-013-SA5DN-SB-9.5 SL-013-SA5DN-SB-9.0-10.0
Surface	14	North of former Building 4020.	Investigate potential residual radiological contamination associated with Incident A0016.	0.5	"Trace gravel fill"	5/23/11	Primary&Secondary	SL-014-SA5DN-SS-0.0-0.5
Subsurface	14	North of former Building 4020.	Investigate potential residual radiological contamination associated with Incident A0016.	10.0	Fill "clayey silt with sand, 5% angular volcanic gravel (fill rock)" from 0 to 2.2 ft	5/31/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-014-SA5DN-SB-4.5MS SL-014-SA5DN-SB-4.0-5.0MS SL-014-SA5DN-SB-9.5 SL-014-SA5DN-SB-9.0-10.0
Surface	15	North side of former Building 4020.	Former location of fission tanks.	0.5	"10% gravel fill"	5/23/11	Primary&Secondary	SL-015-SA5DN-SS-0.0-0.5
Subsurface	15	North side of former Building 4020.	Former location of fission tanks.	13.0	Fill "sitly clay with trace angular gravel" from 0 to 10.2 ft "trace charcoal pieces" at 8.5 ft "trace angular gravel present in Macrocore shoe" at 10.0 ft Refusal on Sandstone	6/1/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-015-SA5DN-SB-4.5 SL-015-SA5DN-SB-4.0-5.0 SL-015-SA5DN-SB-12.5 SL-015-SA5DN-SB-12.0-13.0
Surface	16	North side of former Building 4020.	Former location of fission tanks.	0.5	"10% gravel fill"	5/23/11	Primary&Secondary	SL-016-SA5DN-SS-0.0-0.5
Subsurface	16	North side of former Building 4020.	Former location of fission tanks.	13.0	Fill "sandy clay" into "silty clay" from 0 to 11 ft "15% angular gravel (fill rock or asphalt)" from 0 to 5 ft "Asphalt pieces (~3/4" diameter)" at 2.8 ft "charcoal flake" at 4.5 ft "5% medium to coarse angular gravel (fill rock)" from 5 to 11 ft "clear plastic sheeting" at 7.75 ft Refusal on sandstone	6/2/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-016-SA5DN-SB-4.5 SL-016-SA5DN-SB-4.0-5.0 SL-016-SA5DN-SB-12.5 SL-016-SA5DN-SB-12.0-13.0
Surface	17	North of former Building 4020.	Potential migration of contamination from the former Fission Gas Tanks.	0.5	"15% gravel fill and concrete fragments"	5/23/11	Primary	SL-017-SA5DN-SS-0.0-0.5
Subsurface	17	North of former Building 4020.	Potential migration of contamination from the former Fission Gas Tanks.	8.0	Fill "silty clay with trace angular medium gravel" 0 to 1.0 ft Refusal on siltstone	6/1/11	VOCs/Dioxane Primary Primary	SL-017-SA5DN-SB-4.5 SL-017-SA5DN-SB-4.0-5.0 SL-017-SA5DN-SB-7.0-8.0
Surface	18	North side of former Building 4020.	Downgradient of the Fission Tank excavation pit. Geophysical Anomaly, "Conductivity".	0.5	"Trace gravel fill"	5/23/11	Primary&Secondary	SL-018-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	18	North side of former Building 4020.	Downgradient of the Fission Tank excavation pit. Geophysical Anomaly, "Conductivity".	9.5	Fill "silty clay with trace asphalt pieces" from 0 to 1.0 ft Refusal on sandstone	6/1/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-018-SA5DN-SB-4.5 SL-018-SA5DN-SB-4.0-5.0 SL-018-SA5DN-SB-8.0 SL-018-SA5DN-SB-7.5-8.5
Surface	19	West of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Conductivity". Aerial photo feature, "Possible Open Storage". 4020 leach field	0.5	None indicated	5/23/11	Primary&Secondary	SL-019-SA5DN-SS-0.0-0.5
Subsurface	19	West of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Conductivity". Aerial photo feature, "Possible Open Storage". 4020 leach field	10.0	"Charcoal nodules present in trace amounts" 0 to 1.0 ft	6/3/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-019-SA5DN-SB-4.5 SL-019-SA5DN-SB-4.0-5.0 SL-019-SA5DN-SB-9.5 SL-019-SA5DN-SB-9.0-10.0
Surface	20	West of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Conductivity". Aerial photo feature, "Possible Open Storage".	0.5	"15% gravel fill rock"	5/20/11	Primary&Secondary	SL-020-SA5DN-SS-0.0-0.5
Subsurface	20	West of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Conductivity". Aerial photo feature, "Possible Open Storage".	4.5	Fill "silty clay with sand" from 0 to 1.0 ft Refusal on sandstone	6/15/11	VOCs/Dioxane/GRO Primary&Secondary	SL-020-SA5DN-SB-4.0 SL-020-SA5DN-SB-3.5-4.5
Surface	21	Northwest corner of former Building 4020 "Hot Lab" footprint.	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	0.5	"15% gravel fill rock"	5/23/11	Primary&Secondary	SL-021-SA5DN-SS-0.0-0.5
Subsurface	21	Northwest corner of former Building 4020 "Hot Lab" footprint.	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	20.5	Fill "sandy clay, sandy silt and poorly graded sand" from 0 to 20.5ft "trace asphalt gravel 3/8" diameter" at 3.7 ft "Poorly graded sand" from 13.75 to 16.5 ft "@ 20' 1/2" to 1" pink quartzite gravel layer (pink quartzite viewed in all 5 advancements)" Refusal on poorly graded sand	6/2/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-021-SA5DN-SB-4.5 SL-021-SA5DN-SB-4.0-5.0 SL-021-SA5DN-SB-20.0 SL-021-SA5DN-SB-19.5-20.5
Surface	22	Northeast corner of former Building 4020 "Hot Lab" footprint.	Location of former 500 gallon waste hold up tanks.	0.5	"5% gravel fill and asphalt"	5/23/11	Primary&Secondary	SL-022-SA5DN-SS-0.0-0.5MS
Subsurface	22	Northeast corner of former Building 4020 "Hot Lab" footprint.	Location of former 500 gallon waste hold up tanks.	16.0	Fill "silty clay, sandy clay and poorly graded sand" from 0 to 16 ft "fine angular gravel within clay" at 7.75 ft "pink quartzite gravel (medium to coarse gravel)" at 14.8 ft Refusal on sandstone	6/6/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-022-SA5DN-SB-4.5 SL-022-SA5DN-SB-4.0-5.0 SL-022-SA5DN-SB-15.5 SL-022-SA5DN-SB-15.0-16.0
Surface	23	North central portion of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Magnetometer". Possible residual contamination from former radioactive waste hold up tanks in the basement.	0.5	"10% gravel fill"	5/23/11	Primary&Secondary	SL-023-SA5DN-SS-0.0-0.5
Subsurface	23	North central portion of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Magnetometer". Possible residual contamination from former radioactive waste hold up tanks in the basement.	21.0	Numerous layers of clay/silt/sand to 21 ft described as all Fill "layer of concrete gravel 3/4 " diameter" at 3.6 ft "angular granitic medium gravel" at 9.8 ft "trace charcoal" at 12.3 ft "pockets of sand" at 18 ft	6/8/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-023-SA5DN-SB-4.5 SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.5 SL-023-SA5DN-SB-20.0-21.0
Surface	24	Northeast corner of former Building 4020 "Hot Lab" footprint.	Possible residual contamination from former radioactive waste hold up tanks in the basement. Geophysical Anomaly, "Conductivity".	0.5	"trace asphalt pieces"	5/20/11	Primary&Secondary	SL-024-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	24	Northeast corner of former Building 4020 "Hot Lab" footprint.	Possible residual contamination from former radioactive waste hold up tanks in the basement. Geophysical Anomaly, "Conductivity".	20.0	Fill comprised of "silty slay, sandy silt and poorly graded sand" from 0 to 15.0 ft Refusal on siltstone	6/7/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-024-SA5DN-SB-4.5MS SL-024-SA5DN-SB-4.0-5.0MS SL-024-SA5DN-SB-19.5 SL-024-SA5DN-SB-19.0-20.0
Surface	25	Northeast corner of former Building 4020 "Hot Lab" footprint.	Possible residual contamination from former 500 gallon radioactive waste hold up tanks in the basement.	0.5	"5% asphalt, brick and concrete fragments"	5/20/11	Primary&Secondary	SL-025-SA5DN-SS-0.0-0.5
Subsurface	25	Northeast corner of former Building 4020 "Hot Lab" footprint.	Possible residual contamination from former 500 gallon radioactive waste hold up tanks in the basement.	24.0	Fill comprised of "clay, silty clay, silty sand and poorly graded sand" from 0 to 24.0 ft "poorly graded sand" appears at 20.0 ft Refusal on sandstone	6/8/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-025-SA5DN-SB-4.5 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.5 SL-025-SA5DN-SB-23.0-24.0
Surface	26	North central portion of former Building 4020 "Hot Lab" footprint.	Location of former sump underneath Hot Cell #4. Geophysical Anomaly, "Magnetometer".	0.5	"5% gravel fill"	5/20/11	Primary&Secondary	SL-026-SA5DN-SS-0.0-0.5
Subsurface	26	North central portion of former Building 4020 "Hot Lab" footprint.	Location of former sump underneath Hot Cell #4. Geophysical Anomaly, "Magnetometer".	18.0	Fill composed of "silty clay, silty sand and poorly graded sand" from 0 to 18.0 ft "asphalt pieces ~1/2" diameter" at 5.8 ft Refusal on sandstone	6/7/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-026-SA5DN-SB-4.5 SL-026-SA5DN-SB-4.0-5.0 SL-026-SA5DN-SB-17.5 SL-026-SA5DN-SB-17.0-18.0
Surface	27	North central portion of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Conductivity and Magnetometer".	0.5	"trace asphalt fragments"	5/20/11	Primary&Secondary	SL-027-SA5DN-SS-0.0-0.5
Subsurface	27	North central portion of former Building 4020 "Hot Lab" footprint.	Geophysical Anomaly, "Conductivity and Magnetometer".	15.0	Fill comprised of "clay w/ sand, sand and silty sand" from 0 to 14.0 ft "trace angular gravel" from 0 to 11.5 ft Refusal on sandstone	6/3/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-027-SA5DN-SB-4.5 SL-027-SA5DN-SB-4.0-5.0 SL-027-SA5DN-SB-14.5 SL-027-SA5DN-SB-14.0-15.0
Surface	28	Central portion of former Building 4020 footprint.	Historical data	0.5	"5% asphalt fragments, trace gravel fill"	5/20/11	Primary&Secondary	SL-028-SA5DN-SS-0.0-0.5
Subsurface	28	Central portion of former Building 4020 footprint.	Historical data	12.5	Fill comprised of "clay w/ sand, clay and poorly graded sand from 0 to 12.5 ft "angular sandstone gravel ~3/4 diameter" at 3.5 ft "Concrete Debris from 7 to 7.2 ft and at 8.3 ft "angular fine granitic gravel (fill rock)" at 9.0 ft Refusal on sandstone	6/8/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-028-SA5DN-SB-4.5 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-12.0 SL-028-SA5DN-SB-11.5-12.5
Surface	29	West portion of former Building 4020 footprint	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	0.5	"trace asphalt fragments"	5/20/11	Primary&Secondary	SL-029-SA5DN-SS-0.0-0.5
Subsurface	29	West portion of former Building 4020 footprint	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	7.5	Fill comprised of "sandy silt and sandy silt with clay " from 0 to 7.5 ft "trace angular granite gravel" from 0 to 3.0 ft Refusal on sandstone	6/15/11	VOCs/Dioxane/GRO Primary&Secondary	SL-029-SA5DN-SB-4.5 SL-029-SA5DN-SB-4.0-5.0
Surface	30	Southwest portion of former Building 4020 footprint.	Loading dock area of former Building 4020.	0.5	None indicated	5/19/11	Primary&Secondary	SL-030-SA5DN-SS-0.0-0.5
Subsurface	30	Southwest portion of former Building 4020 footprint.	Loading dock area of former Building 4020.	5.0	Fill "silty clay with sand" from 0 to 2.0 ft "fill rock and concrete debris" at 1.7 ft Refusal on sandstone	6/15/11	VOCs/Dioxane/GRO Primary&Secondary	SL-030-SA5DN-SB-4.5MS SL-030-SA5DN-SB-4.0-5.0MS
Surface	31	Southwest portion of former Building 4020 footprint.	Loading dock area of former Building 4020.	0.5	"trace charcoal"	5/19/11	Primary&Secondary	SL-031-SA5DN-SS-0.0-0.5
Subsurface	31	Southwest portion of former Building 4020 footprint.	Loading dock area of former Building 4020.	7.5	Fill "clayey silt with sand" from 0 to 1 ft Refusal on sandstone	6/15/11	VOCs/Dioxane/GRO Primary&Secondary	SL-031-SA5DN-SB-4.5 SL-031-SA5DN-SB-4.0-5.0

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	32	Southeast portion of former Building 4020 footprint.	Geophysical Anomaly, "Magnetometer". Footprint of former Building 4020.	0.5	"5% gravel fill and sandstone rock fragments"	5/19/11	Primary&Secondary	SL-032-SA5DN-SS-0.0-0.5
Subsurface	32	Southeast portion of former Building 4020 footprint.	Geophysical Anomaly, "Magnetometer". Footprint of former Building 4020.	11.0	Fill comprised of "clayey silt, silty clay, and poorly graded sand" from 0 to 11.0 ft Refusal on sandstone	6/14/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-032-SA5DN-SB-4.5 SL-032-SA5DN-SB-4.0-5.0 SL-032-SA5DN-SB-10.5 SL-032-SA5DN-SB-10.0-11.0
Surface	33	Southern portion of former Building 4020 footprint.	Location of basement sump under Hot Cell #1.	0.5	"trace rock fragments-asphalt"	5/19/11	Primary&Secondary	SL-033-SA5DN-SS-0.0-0.5
Subsurface	33	Southern portion of former Building 4020 footprint.	Location of basement sump under Hot Cell #1.	12.0	Fill comprised of "silty sand, clay, clayey silt and poorly graded sand" from 0 to 11.5 ft "trace angular volcanic medium gravel" from 0 to 2.5 ft "trace charcoal fragments" at 4.0 ft "trace asphalt" at 5.0 ft "concrete debris ~1/2" diameter" at 9.3 ft Refusal on sandstone	6/14/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-033-SA5DN-SB-4.5MS SL-033-SA5DN-SB-4.0-5.0MS SL-033-SA5DN-SB-11.5 SL-033-SA5DN-SB-11.0-12.0
Surface	34	Southwest corner of former Building 4020.	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	0.5	"15% gravel fill and asphalt fragments"	5/19/11	Primary&Secondary	SL-034-SA5DN-SS-0.0-0.5
Subsurface	34	Southwest corner of former Building 4020.	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	7.0	Fill "clay with silt and sand" from 0 to 2.5 ft "angular medium gravel (fill rock)" at 2.5 ft Refusal on sandstone	6/15/11	VOCs/Dioxane/GRO Primary&Secondary	SL-034-SA5DN-SB-4.5 SL-034-SA5DN-SB-4.0-5.0
Surface	35	Southeast corner of former Building 4020 footprint.	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	0.5	"trace amounts of carbon/charcoal"	5/19/11	Primary&Secondary	SL-035-SA5DN-SS-0.0-0.5
Subsurface	35	Southeast corner of former Building 4020 footprint.	Investigate the potential for radiological release through cracks in the foundation of former Building 4020 "Hot Lab".	10.5	Fill " comprised of silty clay and clayey silt from 0 to 10.5 ft Refusal on sandstone	6/14/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-035-SA5DN-SB-4.5 SL-035-SA5DN-SB-4.0-5.0 SL-035-SA5DN-SB-10.0 SL-035-SA5DN-SB-9.5-10.5
Surface	36	East of former Building 4020 footprint.	Potential migration of contamination from the 3,000 gallon holdup tank.	0.5	"15% gravel fill, trace asphalt fragments"	5/20/11	Primary&Secondary	SL-036-SA5DN-SS-0.0-0.5
Subsurface	36	East of former Building 4020 footprint.	Potential migration of contamination from the 3,000 gallon holdup tank.	10.0	Fill "silty clay" from 0 to 3.0 ft	6/7/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-036-SA5DN-SB-4.5 SL-036-SA5DN-SB-4.0-5.0 SL-036-SA5DN-SB-9.5 SL-036-SA5DN-SB-9.0-10.0
Surface	37	East side of former Building 4020 footprint.	Former location of a radioactive waste pipeline to the 3,000 gallon holdup tank.	0.5	"5% rock fragments (asphalt, fill rock)"	5/20/11	Primary&Secondary	SL-037-SA5DN-SS-0.0-0.5
Subsurface	37	East side of former Building 4020 footprint.	Former location of a radioactive waste pipeline to the 3,000 gallon holdup tank.	12.5	Fill "sandy clay, clayey silt and silty sand" from 0 to 12.0 ft "trace asphalt fine gravel" at 3.9 ft "angular medium granitic gravel" at 4.1 ft Refusal on siltstone	6/9/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-037-SA5DN-SB-4.5 SL-037-SA5DN-SB-4.0-5.0 SL-037-SA5DN-SB-12.0 SL-037-SA5DN-SB-11.5-12.5
Surface	38	East side of former Building 4020 footprint.	Former location of a radioactive waste pipeline to the 3,000 gallon holdup tank.	0.5	"5% gravel fill"	5/20/11	Primary&Secondary	SL-038-SA5DN-SS-0.0-0.5
Subsurface	38	East side of former Building 4020 footprint.	Former location of a radioactive waste pipeline to the 3,000 gallon holdup tank.	12.5	Fill "silty clay, clay with sand and poorly graded sand" from 0 to 11.0 ft "angular volcanic granite medium gravel" at 3.5 ft "trace angular fine volcanic gravel" from 4 to 6.5 ft Refusal on sandstone	6/9/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-038-SA5DN-SB-4.5 SL-038-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-11.0 SL-038-SA5DN-SB-10.5-11.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	39	East side of former Building 4020 footprint.	Former location of a radioactive waste 3,000 gallon holdup tank.	0.5	"5% gravel fill"	5/20/11	Primary&Secondary	SL-039-SA5DN-SS-0.0-0.5
Subsurface	39	East side of former Building 4020 footprint.	Former location of a radioactive waste 3000 gallon holdup tank.	12.5	Fill "comprised of sandy clay and poorly graded sand" from 0 to 12.4 ft "asphalt debris" at 2.1 ft, 3.5 ft and 9.1 ft "medium subangular granitic gravel" at 3.9 ft "concrete debris ~ 1.5" diameter" at 4.2 ft "subangular medium granitic gravel" at 6.5 ft Refusal on sandstone	6/9/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-039-SA5DN-SB-4.5 SL-039-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-12.0 SL-039-SA5DN-SB-11.5-12.5
Surface	40	East side of former Building 4020 footprint.	Former location of a radioactive waste 3000 gallon holdup tank.	0.5	"5% gravel fill"	5/20/11	Primary&Secondary	SL-040-SA5DN-SS-0.0-0.5
Subsurface	40	East side of former Building 4020 footprint.	Former location of a radioactive waste 3000 gallon holdup tank.	11.5	Fill "comprised of sandy clay and poorly graded sand" from 0 to 11 ft "asphalt piece" at 2 ft "subrounded medium gravel (granitic fill rock) ~3/4 diameter" at 3.2 ft "subrounded 1" granitic gravel" at 7.8 ft Refusal at sandstone	6/9/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-040-SA5DN-SB-4.5 SL-040-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.0 SL-040-SA5DN-SB-10.5-11.5
Surface	41	East side of former Building 4020 footprint.	Location of former leach pits and leach field. Aerial Photo feature, "Open Storage".	0.5	"10% gravel fill rock"	5/19/11	Primary&Secondary	SL-041-SA5DN-SS-0.0-0.5
Subsurface	41	East side of former Building 4020 footprint.	Location of former leach pits and leach field. Aerial Photo feature, "Open Storage".	10.0	Fill "comprised of sandy clay, silty clay and poorly graded sand" from 0 to 10.0 ft "trace gravel" from 0 to 6.8 ft "angular medium quartzite gravel" at 4.7 ft "asphalt debris (fine asphalt gravel)" at 8.2 ft "granite medium gravel" at 9.0 ft	6/10/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-041-SA5DN-SB-4.5 SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.5 SL-041-SA5DN-SB-9.0-10.0
Surface	42	East side of former Building 4020 footprint.	Location of former leach pits and leach field. Aerial Photo feature, "Open Storage".	0.5	"5% fill gravel"	5/19/11	Primary&Secondary	SL-042-SA5DN-SS-0.0-0.5
Subsurface	42	East side of former Building 4020 footprint.	Location of former leach pits and leach field. Aerial Photo feature, "Open Storage".	10.0	Fill "comprised of silty clay, sandy silt and poorly graded sand" from 0 to 9.5 ft "subangular gneiss medium gravel" at 4.75 ft "angular medium gravel (fill rock)" at 7.5 ft	6/13/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-042-SA5DN-SB-4.5 SL-042-SA5DN-SB-4.0-5.0 SL-042-SA5DN-SB-9.5 SL-042-SA5DN-SB-9.0-10.0
Surface	43	East side of former Building 4020 footprint.	Location of former leach pits and leach field. Aerial Photo feature, "Open Storage".	0.5	"trace gravel fill"	5/19/11	Primary&Secondary	SL-043-SA5DN-SS-0.0-0.5MS
Subsurface	43	East side of former Building 4020 footprint.	Location of former leach pits and leach field. Aerial Photo feature, "Open Storage".	10.0	Fill "comprised of silty clay, poorly graded sand with silt, and silt" from 0 to 10.0 ft "angular granitic medium gravel" at 2.45 ft "large asphalt gravel" at 3.45 ft "trace asphalt" at 8 ft	6/13/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-043-SA5DN-SB-4.5 SL-043-SA5DN-SB-4.0-5.0 SL-043-SA5DN-SB-9.5 SL-043-SA5DN-SB-9.0-10.0
Surface	44	Center portion of former Building 4020 footprint.	Geophysical Anomaly, "Magnetometer". Potential for radiological release through cracks in the foundation of former Building 4020.	0.5	"trace gravel"	5/20/11	Primary&Secondary	SL-044-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	44	Center portion of former Building 4020 footprint.	Geophysical Anomaly, "Magnetometer". Potential for radiological release through cracks in the foundation of former Building 4020.	13.0	Fill "comprised of silty clay, clay with silt and poorly graded sand" from 0 to 12.8 ft "large granitic angular gravel" at 2.1 ft, 3.0 ft, and 3.5 ft "sheathed electrical wire ~ 1/4" long" at 5.6 ft "coarse granitic medium gravel ~1/2 diameter" at 6.5 ft "concrete debris ~1" diameter" at 7.2 ft "granitic medium gravel" at 7.9 ft "asphalt debris~1" diameter" at 9.6 ft "trace tar pitch, mottled trace angular gravel (fill rock)" from 12.2 to 12.8 ft Refusal on sandstone	6/14/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-044-SA5DN-SB-4.5 SL-044-SA5DN-SB-4.0-5.0 SL-044-SA5DN-SB-12.5 SL-044-SA5DN-SB-12.0-13.0
Surface	45	East of former Building 4020 footprint.	Historical Data	0.5	"5% gravel fill"	5/19/11	Primary&Secondary	SL-045-SA5DN-SS-0.0-0.5
Subsurface	45	East of former Building 4020 footprint.	Historical Data	10.0	None indicated	6/10/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-045-SA5DN-SB-4.5 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.5 SL-045-SA5DN-SB-9.0-10.0
Surface	46	East of former Building 4020 footprint.	Drain line from former leach pits and septic tank to ditch.	0.5	"10% fill gravel and asphalt fragments"	5/19/11	Primary&Secondary	SL-046-SA5DN-SS-0.0-0.5
Subsurface	46	East of former Building 4020 footprint.	Drain line from former leach pits and septic tank to ditch.	10.0	None indicated	6/13/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-046-SA5DN-SB-4.5 SL-046-SA5DN-SB-4.0-5.0 SL-046-SA5DN-SB-9.5 SL-046-SA5DN-SB-9.0-10.0
Surface	47	East of former Building 4020 footprint.	Drain line from former leach pits and septic tank to ditch.	0.5	"10% rock fragments/gravel (asphalt, gravel fill, sandstone fragments)"	5/19/11	Primary&Secondary	SL-047-SA5DN-SS-0.0-0.5
Subsurface	47	East of former Building 4020 footprint.	Drain line from former leach pits and septic tank to ditch.	11.0	Fill "clay" from 0 to 3.25ft Refusal on sandstone	6/13/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-047-SA5DN-SB-4.5 SL-047-SA5DN-SB-4.0-5.0 SL-047-SA5DN-SB-10.5 SL-047-SA5DN-SB-10.0-11.0
Surface	48	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from leach pit and leach field.	0.5	"15% gravel, fill"	5/19/11	Primary	SL-048-SA5DN-SS-0.0-0.5
Subsurface	48	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from leach pit and leach field.	12.5	None indicated Refusal on sandstone	6/10/11	VOCs/Dioxane Primary Primary	SL-048-SA5DN-SB-4.5 SL-048-SA5DN-SB-4.0-5.0 SL-048-SA5DN-SB-11.5-12.5
Surface	49	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from leach pit and leach field.	0.5	"15% gravel fill and asphalt pieces"	5/19/11	Primary	SL-049-SA5DN-SS-0.0-0.5
Subsurface	49	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from leach pit and leach field.	16.5	None indicated Refusal on siltstone	6/10/11	VOCs/Dioxane Primary Primary	SL-049-SA5DN-SB-4.5 SL-049-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5
Surface	50	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from 3,000 gallon holdup tank.	0.5	"10% gravel (fill and asphalt fragments)"	5/20/11	Primary	SL-050-SA5DN-SS-0.0-0.5
Subsurface	50	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from 3,000 gallon holdup tank.	12.5	None indicated Refusal on sandstone	6/9/11	VOCs/Dioxane Primary Primary	SL-050-SA5DN-SB-4.5 SL-050-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.5-12.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	51	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from 3,000 gallon holdup tank.	0.5	"15% gravel fill and asphalt"	5/20/11	Primary&Secondary	SL-051-SA5DN-SS-0.0-0.5
Subsurface	51	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch and from 3,000 gallon holdup tank.	15.0	None indicated Refusal on sandstone	6/8/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-051-SA5DN-SB-4.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.5 SL-051-SA5DN-SB-14.0-15.0
Surface	52	Northeast of former Building 4020 footprint.	Geophysical Anomaly, "Conductivity".	0.5	"5% gravel fill, trace pieces of metal found"	5/23/11	Primary	SL-052-SA5DN-SS-0.0-0.5
Subsurface	52	Northeast of former Building 4020 footprint.	Geophysical Anomaly, "Conductivity".	10.0	None indicated	6/3/11	VOCs/Dioxane Primary Primary	SL-052-SA5DN-SB-4.5 SL-052-SA5DN-SB-4.0-5.0 SL-052-SA5DN-SB-9.0-10.0
Surface	53	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch.	0.5	"trace gravel fill"	5/23/11	Primary	SL-053-SA5DN-SS-0.0-0.5
Subsurface	53	East of former Building 4020 footprint, along former 24th Street.	Potential contamination in the former ditch.	12.5	None indicated Refusal on siltstone	6/6/11	VOCs/Dioxane Primary Primary	SL-053-SA5DN-SB-4.5 SL-053-SA5DN-SB-4.0-5.0 SL-053-SA5DN-SB-11.5-12.5
Surface	54	Northeast corner of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	0.5	None indicated	5/18/11	Primary	SL-054-SA5DN-SS-0.0-0.5
Subsurface	54	Northeast corner of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	10.0	Fill "silty clay with asphalt chunks" from 0 to 1.0 ft "charcoal bits" at 9.0 ft	6/13/11	VOCs/Dioxane Primary Primary	SL-054-SA5DN-SB-4.5 SL-054-SA5DN-SB-4.0-5.0 SL-054-SA5DN-SB-9.0-10.0
Surface	55	Northwest portion of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	0.5	"15% gravel (sandstone fragments, asphalt gravel fill)"	5/18/11	Primary	SL-055-SA5DN-SS-0.0-0.5
Subsurface	55	Northwest portion of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	10.0	Fill "clayey silt with sand and trace granitic gravel" from 0 to 3.0 ft Refusal on sandstone	6/15/11	VOCs/Dioxane Primary Primary	SL-055-SA5DN-SB-4.5 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0
Surface	56	West side of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	0.5	"5% rock fragments (sandstone, gravel, asphalt)"	5/18/11	Primary	SL-056-SA5DN-SS-0.0-0.5
Subsurface	56	West side of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	10.0	None indicated	6/15/11	VOCs/Dioxane Primary Primary	SL-056-SA5DN-SB-4.5 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0
Surface	57	Southwest corner of the 4020 Parking Lot	Stakeholder Request - Staging area for the D&D of former Building 4020.	0.5	None indicated	5/24/11	Primary	SL-057-SA5DN-SS-0.0-0.5MS
Subsurface	57	Southwest corner of the 4020 Parking Lot	Stakeholder Request - Staging area for the D&D of former Building 4020.	10.0	None indicated	6/16/11	VOCs/Dioxane Primary Primary	SL-057-SA5DN-SB-4.5 SL-057-SA5DN-SB-4.0-5.0 SL-057-SA5DN-SB-9.0-10.0
Surface	58	South edge of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	0.5	None indicated	5/18/11	Primary	SL-058-SA5DN-SS-0.0-0.5
Subsurface	58	South edge of former Parking Lot 4520.	Staging area for the D&D of former Building 4020.	10.0	None indicated	6/16/11	VOCs/Dioxane Primary Primary	SL-058-SA5DN-SB-4.5 SL-058-SA5DN-SB-4.0-5.0 SL-058-SA5DN-SB-9.0-10.0

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	59	Center portion of former Parking Lot 4520.	Staging area for the D&D of former Building 4020. Geophysical Anomaly, "Conductivity".	0.5	"5% sandstone rock fragments and fill rock"	5/18/11	Primary	SL-059-SA5DN-SS-0.0-0.5
Subsurface	59	Center portion of former Parking Lot 4520.	Staging area for the D&D of former Building 4020. Geophysical Anomaly, "Conductivity".	10.0	"charcoal flecks" at 7.3 ft	6/16/11	VOCs/Dioxane Primary Primary	SL-059-SA5DN-SB-4.5 SL-059-SA5DN-SB-4.0-5.0 SL-059-SA5DN-SB-9.0-10.0
Surface	60	Drainage ditch southeast of former Building 4020.	The ditch received surface water from former building 4020 and from former Parking Lot 4520.	0.5	"5% gravel fill rock"	5/25/11	Primary	SL-060-SA5DN-SS-0.0-0.5
Subsurface	60	Drainage ditch southeast of former Building 4020.	The ditch received surface water from former building 4020 and from former Parking Lot 4520.	9.2	"soft asphalt debris" from 0 to 1.0 ft "pieces of concrete, asphalt debris" from 1 to 4 ft Refusal on sandstone	8/5/11	Primary Primary	SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0
Subsurface	61	South of Building 4055.	Potential radiological contamination from activities associated with Building 4055.	10.0	None indicated	6/16/11	VOCs/Dioxane Primary Primary	SL-061-SA5DN-SB-4.5 SL-061-SA5DN-SB-4.0-5.0 SL-061-SA5DN-SB-9.0-10.0
Subsurface	62	South of Building 4055.	Potential radiological contamination from activities associated with Building 4055.	7.5	None indicated Refusal on sandstone	6/16/11	VOCs/Dioxane Primary	SL-062-SA5DN-SB-4.5 SL-062-SA5DN-SB-4.0-5.0
Subsurface	63	Southeast of Building 4055.	Potential migration of radiological contaminants from the Building 4055 waste holdup system.	1.7	None indicated Refusal on sandstone	No sample due to shallow refusal < 2.5 ft bgs 6/22/2011	NA	NA
Surface	64	Southeast of Building 4055.	Potential migration of radiological contaminants from the Building 4055 waste holdup system.	0.5	"an iron nail, a lite and fill rock found"	5/18/11	Primary&Secondary	SL-064-SA5DN-SS-0.0-0.5
Subsurface	64	Southeast of Building 4055.	Potential migration of radiological contaminants from the Building 4055 waste holdup system.	5.1	None indicated Refusal on sandstone	5/20/11	VOCs/Dioxane/GRO Primary&Secondary	SL-064-SA5DN-SB-4.5 SL-064-SA5DN-SB-4.0-5.0
Surface	65	East of Building 4055.	Potential migration of radiological contamination from the 4055 waste holdup tank system and pipeline.	0.5	None indicated	5/18/11	Primary&Secondary	SL-065-SA5DN-SS-0.0-0.5
Subsurface	65	East of Building 4055.	Potential migration of radiological contamination from the 4055 waste holdup tank system and pipeline.	8.0	None indicated Refusal on sandstone	5/20/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-065-SA5DN-SB-4.5 SL-065-SA5DN-SB-4.0-5.0 SL-065-SA5DN-SB-7.5 SL-065-SA5DN-SB-7.0-8.0
Surface	66	East of Building 4055.	Potential migration of radiological contamination from the 4055 waste holdup tank system and pipeline.	0.5	"5% gravel (fill rock and cement)"	5/17/11	Primary&Secondary	SL-066-SA5DN-SS-0.0-0.5
Subsurface	66	East of Building 4055.	Potential migration of radiological contamination from the 4055 waste holdup tank system and pipeline.	10.0	None indicated	5/19/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-066-SA5DN-SB-4.5 SL-066-SA5DN-SB-4.0-5.0 SL-066-SA5DN-SB-9.5 SL-066-SA5DN-SB-9.0-10.0
Surface	67	East of Building 4055.	Potential migration of radiological contamination from the 4055 waste holdup tank system and pipeline.	0.5	None indicated	5/17/11	Primary&Secondary	SL-067-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	67	East of Building 4055.	Potential migration of radiological contamination from the 4055 waste holdup tank system and pipeline.	10.0	None indicated	5/19/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-067-SA5DN-SB-4.5 SL-067-SA5DN-SB-4.0-5.0 SL-067-SA5DN-SB-9.5 SL-067-SA5DN-SB-9.0-10.0
Subsurface	68	Parking Lot on the north side of Building 4055.	Potential radiologic contamination from activities associated with Building 4055.	10.0	Fill "clayey silt" from 0 to 1.0 ft	5/17/11	VOCs/Dioxane Primary Primary	SL-068-SA5DN-SB-4.5 SL-068-SA5DN-SB-4.0-5.0 SL-068-SA5DN-SB-9.0-10.0
Subsurface	69	Parking Lot on the north side of Building 4055.	Potential radiological contamination associated with activities conducted within Building 4055.	10.0	Fill "clay" from 0 to 0.5 ft	5/18/11	VOCs/Dioxane Primary Primary	SL-069-SA5DN-SB-4.5 SL-069-SA5DN-SB-4.0-5.0 SL-069-SA5DN-SB-9.0-10.0
Subsurface	70	Parking Lot on the north side of Building 4055.	Potential radiological contamination associated with activities conducted within Building 4055.	10.0	None indicated	5/18/11	VOCs/Dioxane Primary Primary	SL-070-SA5DN-SB-4.5 SL-070-SA5DN-SB-4.0-5.0 SL-070-SA5DN-SB-9.0-10.0
Subsurface	71	North of Building 4055.	Characterize potential radiological contaminated sediment and soil from activities associated with Building 4055.	10.0	"fragments of asphalt ~1 inch thick" at 2.0 ft "trace gravel fill rock" from 4.5 to 5.0 ft	8/10/11	Primary Primary	SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0
Drainage	71	North of Building 4055.	Characterize potential radiological contaminated sediment and soil from activities associated with Building 4055.	0.5	"1 piece of iron found"	5/27/11	Primary	SL-071-SA5DN-SS-0.0-0.5
Subsurface	72	Northeast of Building 4055, in ditch south side of G Street.	Characterize potential radiological contaminated sediment and soil from activities associated with Building 4055.	6.0	"5% fine gravel and asphalt fragments" from 0 to 3.5 ft Refusal on sandstone	8/10/11	Primary Primary	SL-072-SA5DN-SB-4.0-5.0
Drainage	72	Northeast of Building 4055, in ditch south side of G Street.	Characterize potential radiological contaminated sediment and soil from activities associated with Building 4055.	0.5	None indicated	5/17/11	Primary	SL-072-SA5DN-SS-0.0-0.5
Subsurface	73	Parking Lot on the north side of Building 4055.	Characterize potential radiological contaminated sediment and soil from activities associated with Building 4055.	10.0	Fill " clay with silt" from 0 to 0.8 ft	5/17/11	VOCs/Dioxane Primary Primary	SL-073-SA5DN-SB-4.5 SL-073-SA5DN-SB-4.0-5.0 SL-073-SA5DN-SB-9.0-10.0
Surface	74	East of Building 4055.	Potential radiological contamination from drainage ditch and elevated gamma survey readings.	0.5	"15% gravel-concrete"	5/17/11	Primary&Energetics	SL-074-SA5DN-SS-0.0-0.5
Subsurface	74	East of Building 4055.	Potential radiological contamination from drainage ditch and elevated gamma survey readings.	10.0	"trace angular medium gravel (fill rock)" from 0 to 1.0 ft	5/18/11	VOCs/Dioxane Primary&Energetics Primary&Energetics	SL-074-SA5DN-SB-4.5 SL-074-SA5DN-SB-4.0-5.0 SL-074-SA5DN-SB-9.0-10.0
Subsurface	75	Drainage north of former Buildings 4373/4374 & east of Building 4055.	Potential radiological contamination from drainage ditch to the west and to the south.	10.0	Fill "silty clay with trace asphalt chunks" from 0 to 2.5 ft	5/23/11	VOCs/Dioxane Primary Primary	SL-075-SA5DN-SB-4.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0
Drainage	75	Drainage north of former Buildings 4373/4374 & east of Building 4055.	Potential radiological contamination from drainage ditch to the west and to the south.	0.5	"trace asphalt pieces"	5/17/11	Primary	SL-075-SA5DN-SS-0.0-0.5
Surface	76	North of former Buildings 4373/4374 and east of Building 4055.	Historical Data	0.5	"15% gravel fill"	5/17/11	Primary	SL-076-SA5DN-SS-0.0-0.5
Subsurface	76	North of former Buildings 4373/4374 and east of Building 4055.	Historical Data	10.0	None indicated	5/18/11	VOCs/Dioxane Primary Primary	SL-076-SA5DN-SB-4.5MS SL-076-SA5DN-SB-4.0-5.0MS SL-076-SA5DN-SB-9.0-10.0
Subsurface	77	Ditch east of former Building 4373.	Potential radiological contamination migration from activities associated with Building 4373.	10.0	None indicated	6/27/11	VOCs/Dioxane Primary & Energetics Primary & Energetics	SL-077-SA5DN-SB-4.5 SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0
Subsurface	78	Ditch east of former Building 4373.	Potential contamination associated with discharge from former pipe excavated from trench emanating from former Building 4373.	10.0	None indicated	6/27/11	VOCs/Dioxane Primary & Energetics Primary & Energetics	SL-078-SA5DN-SB-4.5 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	79	Former Building 4374 footprint.	Investigate potential radiological contamination from activities associated with former Building 4374 and 4373.	0.5	"20% gravel fill"	5/17/11	Primary&Energetics	SL-079-SA5DN-SS-0.0-0.5
Subsurface	79	Former Building 4374 footprint.	Investigate potential radiological contamination from activities associated with former Building 4374 and 4373.	10.0	Fill "clayey silt with some asphalt chunks/debris, trace angular gravel (medium fill rock) & a u-bracket (metal) on outside of macrocore" from 0 to 1.75 ft	5/19/11	VOCs/Dioxane Primary&Energetics Primary&Energetics	SL-079-SA5DN-SB-4.5 SL-079-SA5DN-SB-4.0-5.0 SL-079-SA5DN-SB-9.0-10.0
Surface	80	Former Building 4373 footprint.	Investigate potential radiological contamination from activities associated with former Building 4374.	0.5	"20% gravel fill and cement"	5/17/11	Primary&Energetics	SL-080-SA5DN-SS-0.0-0.5
Subsurface	80	Former Building 4373 footprint.	Investigate potential radiological contamination from activities associated with former Building 4374.	9.0	Fill "silty clay" from 0 to 2.0 ft Refusal on sandstone	5/19/11	VOCs/Dioxane Primary&Energetics Primary&Energetics	SL-080-SA5DN-SB-4.5 SL-080-SA5DN-SB-4.0-5.0 SL-080-SA5DN-SB-8.0-9.0
Surface	81	Northwest of Building 4373.	Potential radioactive contamination associated with Geophysical Anomaly (trench) emanating from former Building 4373 footprint.	0.5	None indicated	5/17/11	Primary&Energetics	SL-081-SA5DN-SS-0.0-0.5
Subsurface	81	Northwest of Building 4373.	Potential radioactive contamination associated with Geophysical Anomaly (trench) emanating from former Building 4373 footprint.	10.0	Fill "Silt" from 0 to 2.8 ft	5/23/11	VOCs/Dioxane Primary&Energetics Primary&Energetics	SL-081-SA5DN-SB-4.5 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0
Surface	82	Former Building 4373 footprint	Inside the footprint of former Building 4373, elevated gamma readings, magnetometer anomaly.	0.5	"20% gravel fill-concrete, fill rock"	5/17/11	Primary&Energetics	SL-082-SA5DN-SS-0.0-0.5
Subsurface	82	Former Building 4373 footprint	Inside the footprint print of former Building 4373, elevated gamma readings, magnetometer anomaly.	6.0	Fill "silty clay" from 0 to 2.2 ft Refusal on sandstone	5/19/11	VOCs/Dioxane Primary&Energetics	SL-082-SA5DN-SB-4.5 SL-082-SA5DN-SB-4.0-5.0
Surface	83	Former Building 4373 footprint	Investigate potential radiological contamination from activities associated with former Building 4374.	0.5	"15% gravel"	5/17/11	Primary&Energetics	SL-083-SA5DN-SS-0.0-0.5
Subsurface	83	Former Building 4373 footprint	Investigate potential radiological contamination from activities associated with former Building 4374.	5.7	"15% gravel fill, rock and sandstone fragments" from 0 to 1.5 ft Refusal on sandstone	8/8/11	Primary	SL-083-SA5DN-SB-4.0-5.0
Surface	84	Former Building 4373 footprint	Investigate potential radiological contamination from activities associated with former Building 4374.	0.5	"20% gravel (fill rock and cement)"	5/17/11	Primary&Energetics	SL-084-SA5DN-SS-0.0-0.5
Subsurface	84	Former Building 4373 footprint	Investigate potential radiological contamination from activities associated with former Building 4374.	6.0	None indicated Refusal on sandstone	5/23/11	VOCs/Dioxane Primary&Energetics	SL-084-SA5DN-SB-4.5 SL-084-SA5DN-SB-4.0-5.0
Subsurface	85	Southwest of former Building 4373.	Potentially contaminated soil in ditch from activities associated with former Building 4373 and Building 4374.	3.5	None indicated Refusal on sandstone	6/27/11	VOCs/Dioxane Primary&Energetics	SL-085-SA5DN-SB-3.0 SL-085-SA5DN-SB-2.5-3.5
Surface	86	South of former Building 4373.	Characterize Geophysical Anomaly (underground pipe)emanating from the footprint of former Building 4373.	0.5	"trace gravel"	5/18/11	Primary&Secondary	SL-086-SA5DN-SS-0.0-0.5
Subsurface	86	South of former Building 4373.	Characterize Geophysical Anomaly (underground pipe)emanating from the footprint of former Building 4373.	7.5	None indicated Refusal on sandstone	5/20/11	VOCs/Dioxane/GRO Primary&Secondary	SL-086-SA5DN-SB-4.5 SL-086-SA5DN-SB-4.0-5.0
Surface	87	South of former Building 4373.	Characterize potential radiological contamination associated with leach field former Building 4373.	0.5	"5% gravel"	5/18/11	Primary&Secondary	SL-087-SA5DN-SS-0.0-0.5
Subsurface	87	South of former Building 4373.	Characterize potential radiological contamination associated with leach field former Building 4373.	2.5	"10% angular medium gravel (fill rock)" from 0 to 1.0 ft Refusal on sandstone	No sample collected due to shallow refusal < 2.5 ft 5/23/2011	NA	NA
Surface	88	South of former Building 4373.	Geophysical Anomaly, "Magnetometer".	0.5	None indicated	5/18/11	Primary&Energetics	SL-088-SA5DN-SS-0.0-0.5
Subsurface	88	South of former Building 4373.	Geophysical Anomaly, "Magnetometer".	5.0	None indicated Refusal on sandstone	5/20/11	VOCs/Dioxane Primary&Energetics	SL-088-SA5DN-SB-4.5 SL-088-SA5DN-SB-4.0-5.0

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	89	South of former Building 4373.	Characterize potential radiological contamination associated with leach field former Building 4373.	0.5	None indicated	5/18/11	Primary&Secondary	SL-089-SA5DN-SS-0.0-0.5MS
Subsurface	89	South of former Building 4373.	Characterize potential radiological contamination associated with leach field former Building 4373.	5.0	None indicated	5/23/11	VOCs/Dioxane/GRO Primary&Secondary	SL-089-SA5DN-SB-4.5 SL-089-SA5DN-SB-4.0-5.0
Surface	90	Northwest corner of the intersection of 22nd and J Street.	Characterize potential radioactive contamination in soil/sediment associated with activities in former Building 4373 and Building 4055.	0.5	"5% gravel fill and asphalt pieces"	5/18/11	Primary&Secondary	SL-090-SA5DN-SS-0.0-0.5
Subsurface	90	Northwest corner of the intersection of 22nd and J Street.	Characterize potential radioactive contamination in soil/sediment associated with activities in former Building 4373 and Building 4055.	NA	NA	sampled by H	NA	NA
Surface	91	Ditch on south side of J Street, North of former Building 4874.	Potential radiological contamination in soil/sediment south side of J Street. Possible open storage in parking lot former Building 4363.	0.5	None indicated	5/27/11	Primary	SL-091-SA5DN-SS-0.0-0.5
Subsurface	91	Ditch on south side of J Street, North of former Building 4874.	Potential radiological contamination in soil/sediment south side of J Street. Possible open storage in parking lot former Building 4363.	6.0	Fill "comprised of silty clay and clay from 0 to 5.0 ft "trace gravel (fill rock)" from 0 to 3.0 ft "asphalt debris ~2" thick" at 3.0 ft "concrete debris~3"think" at 3.75 ft Refusal on sandstone	6/24/11	VOCs/Dioxane Primary	SL-091-SA5DN-SB-4.5 SL-091-SA5DN-SB-4.0-5.0
Surface	92	Northwest of former Buildings 4874/4375/4875.	Potential radiological contamination in soil/sediment south side of J Street. Possible open storage in parking lot former Building 4363.	0.5	None indicated	5/27/11	Primary	SL-092-SA5DN-SS-0.0-0.5
Subsurface	92	Northwest of former Buildings 4874/4375/4875.	Potential radiological contamination in soil/sediment south side of J Street. Possible open storage in parking lot former Building 4363.	8.4	None indicated Refusal on sandstone	6/24/11	VOCs/Dioxane Primary Primary	SL-092-SA5DN-SB-4.5MS SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-7.0-8.0
Surface	93	West of former Buildings 4874/4375/4875.	Potential radiological contamination in soil/sediment along east side of 24th Street. Possible open storage former Building 4363.	0.5	None indicated	5/27/11	Primary	SL-093-SA5DN-SS-0.0-0.5
Subsurface	93	West of former Buildings 4874/4375/4875.	Potential radiological contamination in soil/sediment along east side of 24th Street. Possible open storage former Building 4363.	10.0	None indicated	6/20/11	VOCs/Dioxane Primary Primary	SL-093-SA5DN-SB-4.5 SL-093-SA5DN-SB-4.0-5.0 SL-093-SA5DN-SB-9.0-10.0
Surface	94	West of former Buildings 4874/4375/4875.	Potential radiological contamination in soil/sediment along east side of 24th Street. Possible open storage former Building 4363.	0.5	None indicated	5/31/11	Primary	SL-094-SA5DN-SS-0.0-0.5
Subsurface	94	West of former Buildings 4874/4375/4875.	Potential radiological contamination in soil/sediment along east side of 24th Street. Possible open storage former Building 4363.	10.0	Fill " comprised of clay with sand, sandy clay and clayey sand" from 0 to 10.0 ft "trace gravel fill rock" from 9.0 to 10.0 ft	6/22/11	VOCs/Dioxane Primary Primary	SL-094-SA5DN-SB-4.5 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0
Surface	95	Southwest of former Buildings 4874/4375/4875.	Historical data	0.5	"5% gravel fill rock"	5/31/11	Primary	SL-095-SA5DN-SS-0.0-0.5
Subsurface	95	Southwest of former Buildings 4874/4375/4875.	Historical data	10.0	None indicated	6/21/11	VOCs/Dioxane Primary Primary	SL-095-SA5DN-SB-4.5 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0
Surface	97	West of former Building 4363 footprint.	Historical data	0.5	None indicated	5/31/11	Primary&Secondary	SL-097-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	97	West of former Building 4363 footprint.	Historical data	9.5	None indicated Refusal on sandstone	6/21/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-097-SA5DN-SB-4.5 SL-097-SA5DN-SB-4.0-5.0 SL-097-SA5DN-SB-9.0 SL-097-SA5DN-SB-8.5-9.5
Surface	98	Northwest of former Building 4363	Historical data	0.5	"5% sandstone fragments and gravel fill"	5/31/11	Primary&Secondary	SL-098-SA5DN-SS-0.0-0.5
Subsurface	98	Northwest of former Building 4363 footprint.	Historical data	8.0	Fill "silty clay" from 0 to 5.0 ft "trace concrete~1/4 diameter" at 3.1 ft "trace asphalt~1/8 diameter" at 4.0 ft "Concrete debris" from 4.0 to 4.6 ft Refusal on sandstone	6/21/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-098-SA5DN-SB-4.5 SL-098-SA5DN-SB-4.0-5.0 SL-098-SA5DN-SB-7.5 SL-098-SA5DN-SB-7.0-8.0
Surface	99	North of former Building 4363 footprint.	Historical data	0.5	None indicated	5/31/11	Primary&Secondary	SL-099-SA5DN-SS-0.0-0.5
Subsurface	99	North of former Building 4363 footprint.	Potential radiological contamination from pipeline associated with the leach field.	7.0	None indicated Refusal on sandstone	6/21/11	VOCs/Dioxane/GRO Primary&Secondary	SL-099-SA5DN-SB-4.5 SL-099-SA5DN-SB-4.0-5.0
Surface	100	Southeast corner of former Building 4363.	Aerial Photo Feature, "Possible Open Storage".	0.5	"trace gravel fill"	6/1/11	Primary&NDMA	SL-100-SA5DN-SS-0.0-0.5
Subsurface	100	Southeast corner of former Building 4363.	Aerial Photo Feature, "Possible Open Storage".	4.0	None indicated	6/23/11	VOCs/Dioxane Primary & NDMA	SL-100-SA5DN-SB-3.5 SL-100-SA5DN-SB-3.0-4.0
Subsurface	101	South side of former L Street, south of former Building 4363.	Potential radiological contamination from pipeline associated with the leach field.	3.5	Fill "clay with trace asphalt" from 0 to 1.7 ft Refusal on sandstone	6/23/11	VOCs/Dioxane Primary	SL-101-SA5DN-SB-3.0 SL-101-SA5DN-SB-2.5-3.5
Drainage	101	South side of former L Street, south of former Building 4363.	Potential radiological contamination from pipeline associated with the leach field.	0.5	"trace asphalt, pieces of burnt wood, bungee cord, some charcoal"	5/31/11	Primary	SL-101-SA5DN-SS-0.0-0.5
Surface	102	Northeast corner of former Building 4363.	Historical data	0.5	None indicated	5/31/11	Primary&Secondary	SL-102-SA5DN-SS-0.0-0.5
Subsurface	102	Northeast corner of former Building 4363.	Historical data	4.0	"Fill:silty clay with trace to medium gravel" from 0 to 1.3 ft Refusal on sandstone	6/23/11	VOCs/Dioxane/GRO Primary&Secondary	SL-102-SA5DN-SB-4.5 SL-102-SA5DN-SB-4.0-5.0
Surface	103	Northeast corner of former Building 4363.	Potential radiological contamination associated with former leach field.	0.5	None indicated	5/31/11	Primary&Secondary	SL-103-SA5DN-SS-0.0-0.5
Subsurface	103	Northeast corner of former Building 4363.	Potential radiological contamination associated with former leach field.	8.0	Fill "comprised of clayey silt, silty sand and silt with clay" from 0 to 6.9 ft "angular volcanic medium gravel" at 3.0 ft "subrounded medium gravel (fill rock)" at 4.1 ft "1/2" diameter red brick debris" at 6.0 ft Refusal on sandstone	6/24/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-103-SA5DN-SB-4.5 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.5 SL-103-SA5DN-SB-7.0-8.0
Surface	104	Northeast corner of former Building 4363.	Historical Data	0.5	"10% gravel fill rock and asphalt"	5/31/11	Primary&Secondary	SL-104-SA5DN-SS-0.0-0.5
Subsurface	104	Northeast corner of former Building 4363.	Historical Data	5.0	Fill "sandy silt and clayey silt" from 0 to 3.0 ft Refusal on sandstone	6/23/11	VOCs/Dioxane/GRO Primary&Secondary	SL-104-SA5DN-SB-4.5 SL-104-SA5DN-SB-4.0-5.0
Surface	105	Northeast of former Building 4363.	Characterize potential radiological contamination associated with the former Building 4363 leachfield.	0.5	"trace gravel fill"	6/1/11	Primary&Secondary	SL-105-SA5DN-SS-0.0-0.5
Subsurface	105	Northeast of former Building 4363.	Characterize potential radiological contamination associated with the former Building 4363 leachfield.	6.0	Fill "comprised of sandy silt with clay, clay with silt and well graded gravel with sand" from 0 to 6.0 ft "20% fine subrounded gravel, granitic gravel" from 5.0 to 6.0 ft Refusal on gravel	6/23/11	VOCs/Dioxane/GRO Primary&Secondary	SL-105-SA5DN-SB-4.5 SL-105-SA5DN-SB-4.0-5.0
Surface	106	Northeast of former Building 4363.	Characterize potential radiological contamination associated with the former Building 4363 leachfield.	0.5	"trace gravel fill"	6/1/11	Primary&Secondary	SL-106-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	106	Northeast of former Building 4363.	Characterize potential radiological contamination associated with the former Building 4363 leachfield.	10.0	Fill "sandy silt with clay" from 0 to 4.0 ft "trace angular medium gravel (fill rock)" from 0 to 4.0 ft "angular medium and fine gravel layer 3" thick" at 5.0 ft	6/23/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-106-SA5DN-SB-4.5 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.5 SL-106-SA5DN-SB-9.0-10.0
Surface	107	Northeast of former Building 4363.	Characterize potential radiological contamination associated with the former Building 4363 leachfield.	0.5	"trace gravel fill"	6/1/11	Primary&Secondary	SL-107-SA5DN-SS-0.0-0.5
Subsurface	107	Northeast of former Building 4363.	Characterize potential radiological contamination associated with the former Building 4363 leachfield.	4.5	Fill "clay silt" from 0 to 2.0 ft "5% angular medium volcanic (fill rock) gravel" from 0 to 2.0 ft Refusal on sandstone	6/23/11	VOCs/Dioxane/GRO Primary&Secondary	SL-107-SA5DN-SB-4.0 SL-107-SA5DN-SB-3.5-4.5
Surface	108	East of former Building 4363.	Aerial Photo Feature, "Possible Open Storage".	0.5	"trace gravel fill"	6/1/11	Primary	SL-108-SA5DN-SS-0.0-0.5MS
Subsurface	108	East of former Building 4363.	Aerial Photo Feature, "Possible Open Storage".	2.5	"Fill:silty clay" from 0 to 2.0 ft "trace fine quartzite gravel" from 0 to 2.0 ft Refusal on sandstone	No sample due to shallow refusal < 2.5 ft bgs 6/23/2011	NA	NA
Surface	109	East of former Building 4363.	Aerial Photo Feature, "Possible Open Storage".	0.5	None indicated	6/1/11	Primary&Secondary	SL-109-SA5DN-SS-0.0-0.5
Subsurface	109	East of former Building 4363.	Aerial Photo Feature, "Possible Open Storage".	4.5	Fill "silty clay" from 0 to 1.0 ft Refusal on siltstone	6/23/11	VOCs/Dioxane/GRO Primary&Secondary	SL-109-SA5DN-SB-4.0 SL-109-SA5DN-SB-3.5-4.5
Surface	110	Former Building 4363 footprint.	Historical Data	0.5	"trace sandstone rock fragments and asphalt pieces"	5/31/11	Primary&Secondary	SL-110-SA5DN-SS-0.0-0.5
Subsurface	110	Former Building 4363 footprint.	Historical Data	5.0	Fill "silty clay w/ 5% angular medium quartzite gravel (fill rock)" from 0 to 4.0 ft	6/23/11	VOCs/Dioxane/GRO Primary&Secondary	SL-110-SA5DN-SB-4.5 SL-110-SA5DN-SB-4.0-5.0
Surface	111	Former Building 4363 footprint.	Historical Data	0.5	None indicated	5/31/11	Primary&Secondary	SL-111-SA5DN-SS-0.0-0.5
Subsurface	111	Former Building 4363 footprint.	Historical Data	7.5	Fill "silt and clay" from 0 to 5.5 ft Refusal on sandstone	6/22/11	VOCs/Dioxane/GRO Primary&Secondary	SL-111-SA5DN-SB-4.5 SL-111-SA5DN-SB-4.0-5.0
Surface	112	Former Building 4363 footprint.	Historical Data	0.5	None indicated	5/31/11	Primary&Secondary	SL-112-SA5DN-SS-0.0-0.5
Subsurface	112	Former Building 4363 footprint.	Historical Data	7.5	Fill "clay with silt and sand" from 0 to 5.5 ft Refusal on sandstone	6/22/11	VOCs/Dioxane/GRO Primary&Secondary	SL-112-SA5DN-SB-4.5MS SL-112-SA5DN-SB-4.0-5.0MS
Surface	113	Former Building 4363 footprint.	Historical Data	0.5	None indicated	5/31/11	Primary&Secondary	SL-113-SA5DN-SS-0.0-0.5
Subsurface	113	Former Building 4363 footprint.	Historical Data	7.5	Fill "silty clay with 5% angular medium gravel" from 0 to 1.8 ft "concrete debris ~1/4 diameter" at 1.8 ft Refusal on sandstone	6/21/11	VOCs/Dioxane/GRO Primary&Secondary	SL-113-SA5DN-SB-4.5 SL-113-SA5DN-SB-4.0-5.0
Surface	114	Southwest of former Building 4363.	Historical Data. Aerial Photo Feature, "Possible Open Storage".	0.5	"trace gravel fill"	5/31/11	Primary & NDMA	SL-114-SA5DN-SS-0.0-0.5
Subsurface	114	Southwest of former Building 4363.	Historical Data. Aerial Photo Feature, "Possible Open Storage".	7.5	Fill "comprised of silt and clay" from 0 to 6.0 ft "trace gravel rock" from 0 to 3.0 ft Refusal on sandstone	6/22/11	VOCs/Dioxane Primary & NDMA	SL-114-SA5DN-SB-4.5 SL-114-SA5DN-SB-4.0-5.0
Subsurface	115	North side of L Street, south of former Building 4363.	Investigate potential radiological contamination in sediment/soil in ditch on the south side of former L Street.	7.0	Fill "clay with silt & sand" from 0 to 5.0 ft Refusal on sandstone	6/22/11	VOCs/Dioxane Primary & NDMA	SL-115-SA5DN-SB-4.5 SL-115-SA5DN-SB-4.0-5.0
Subsurface	116	North side of L Street, southeast of former Building 4363.	Investigate potential radiological contamination in sediment/soil in ditch on the south side of former L Street.	3.0	Fill "silty sand" from 0 to 3.0 ft Refusal on silty clay	6/28/11	VOCs/Dioxane Primary	SL-116-SA5DN-SB-2.5MS SL-116-SA5DN-SB-2.0-3.0MS
Surface	117	Former Building 4875 footprint.	Potential radiological contamination associated with activities at former Building 4875.	0.5	None indicated	5/27/11	Primary & Secondary	SL-117-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	117	Former Building 4875 footprint.	Potential radiological contamination associated with activities at former Building 4875.	7.0	None indicated Refusal on sandstone	6/20/11	VOCs/Dioxane/GRO Primary&Secondary	SL-117-SA5DN-SB-4.5 SL-117-SA5DN-SB-4.0-5.0
Surface	118	Former Building 4375 footprint.	Potential radiological contamination associated with activities at former Building 4875.	0.5	None indicated	5/27/11	Primary & Secondary	SL-118-SA5DN-SS-0.0-0.5
Subsurface	118	Former Building 4375 footprint.	Potential radiological contamination associated with activities at former Building 4875.	7.5	None indicated	6/20/11	VOCs/Dioxane/GRO Primary&Secondary	SL-118-SA5DN-SB-4.5 SL-118-SA5DN-SB-4.0-5.0
Surface	119	East side of former Building 4375.	Potential radiological contamination associated with former pit tank - Drawing 303-GEN. C-42	0.5	"trace sandstone fragments and asphalt"	5/27/11	Primary & Secondary	SL-119-SA5DN-SS-0.0-0.5
Subsurface	119	East side of former Building 4375.	Potential radiological contamination associated with former pit tank - Drawing 303-GEN. C-43	7.5	None indicated Refusal on sandstone	6/20/11	VOCs/Dioxane/GRO Primary&Secondary	SL-119-SA5DN-SB-4.5 SL-119-SA5DN-SB-4.0-5.0
Surface	120	East side of former Building 4375.	Potential radiological contamination associated with former pit tank drain line - Drawing 303-GEN. C-42	0.5	None indicated	5/27/11	Primary & Secondary	SL-120-SA5DN-SS-0.0-0.5
Subsurface	120	East side of former Building 4375.	Potential radiological contamination associated with former pit tank drain line - Drawing 303-GEN. C-43	7.5	None indicated Refusal on sandstone	6/21/11	VOCs/Dioxane/GRO Primary&Secondary	SL-120-SA5DN-SB-4.5 SL-120-SA5DN-SB-4.0-5.0
Surface	121	North of former Building 4873.	Aerial Photo Feature, "Possible Open Storage".	0.5	"sandstone fragments and gravel fill rock"	5/31/11	Primary&Secondary	SL-121-SA5DN-SS-0.0-0.5
Subsurface	121	North of former Building 4873.	Aerial Photo Feature, "Possible Open Storage".	9.0	None indicated Refusal on sandstone	6/21/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-121-SA5DN-SB-4.5 SL-121-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-8.5 SL-121-SA5DN-SB-8.0-9.0
Surface	122	North of former Building 4874.	Possible open storage area.	0.5	None indicated	5/27/11	Primary	SL-122-SA5DN-SS-0.0-0.5
Subsurface	122	North of former Building 4874.	Possible open storage area.	7.5	None indicated Refusal on sandstone	6/24/11	VOCs/Dioxane Primary	SL-122-SA5DN-SB-4.5 SL-122-SA5DN-SB-4.0-5.0
Surface	123	Northwest of former Building 4363.	Aerial Photo Feature, "Ground Scar". Possible location of former 6 inch V.C. Pipe.	0.5	None indicated	6/1/11	Primary	SL-123-SA5DN-SS-0.0-0.5
Subsurface	123	Northwest of former Building 4363.	Aerial Photo Feature, "Ground Scar". Possible location of former 6 inch V.C. Pipe.	3.5	None indicated Refusal on sandstone	6/27/11	VOCs/Dioxane Primary	SL-123-SA5DN-SB-3.0 SL-123-SA5DN-SB-2.5-3.5
Surface	124	North of former Building 4863.	Historical Site Assessment (HSA) Aerial Photo Feature, "Drainage".	0.5	None indicated	6/1/11	Primary	SL-124-SA5DN-SS-0.0-0.5
Subsurface	124	North of former Building 4863.	Historical Site Assessment (HSA) Aerial Photo Feature, "Drainage".	2.0	None indicated Refusal on sandstone	No sample due to shallow refusal 6/27/11	NA	NA
Surface	125	Northwest of former Building 4863.	Aerial Photo Feature, "Drainage".	0.5	None indicated	5/31/11	Primary&Secondary	SL-125-SA5DN-SS-0.0-0.5
Subsurface	125	Northwest of former Building 4863.	Aerial Photo Feature, "Drainage".	10.0	"trace fine angular gravel (sandstone)" from 0 3.5 ft Refusal on sandstone	6/21/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-125-SA5DN-SB-4.5 SL-125-SA5DN-SB-4.0-5.0 SL-125-SA5DN-SB-9.5 SL-125-SA5DN-SB-9.0-10.0
Surface	126	Northwest of former Building 4863.	Historical Site Assessment (HSA) Aerial Photo Feature, "Drainage".	0.5	None indicated	6/1/11	Primary	SL-126-SA5DN-SS-0.0-0.5
Subsurface	126	Northwest of former Building 4863.	Historical Site Assessment (HSA) Aerial Photo Feature, "Drainage".	1.75	None indicated Refusal on sandstone	No sample due to shallow refusal 6/27/11	NA	NA

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	127	Ditch south side of J Street, northwest of former Building 4863.	Potential contamination from effluent of former 6 inch V.C. Pipe.	1.0	"concrete and asphalt in shoe" from 0 to 1.0 ft	No sample due to shallow refusal 6/28/11	NA	NA
Drainage	127	Ditch south side of J Street, northwest of former Building 4863.	Potential contamination from effluent of former 6 inch V.C. Pipe.	0.5	"25% gravel fill rock and asphalt pieces"	6/1/11	Primary	SL-127-SA5DN-SS-0.0-0.5
Subsurface	128	Ditch south side of J Street at the boundary of 5DN.	Potential radiological contamination from activities associated with former Buildings 4353/4854.	7.0	Fill "silty sand" from 0 to 1.5 ft Refusal on siltstone	6/29/11	VOCs/Dioxane Primary	SL-128-SA5DN-SB-4.5 SL-128-SA5DN-SB-4.0-5.0
Drainage	128	Ditch south side of J Street at the boundary of 5DN.	Potential radiological contamination from activities associated with former Buildings 4353/4854.	0.5	"15% gavel fill and asphalt pieces"	6/1/11	Primary	SL-128-SA5DN-SS-0.0-0.5
Surface	129	North of former Buildings 4353/4854.	Potential radiological contamination from activities associated with former Buildings 4353/4854.	0.5	"trace gravel fill and sandstone fragments"	6/1/11	Primary	SL-129-SA5DN-SS-0.0-0.5
Subsurface	129	North of former Buildings 4353/4854.	Potential radiological contamination from activities associated with former Buildings 4353/4854.	3.5	None indicated Refusal on sandstone	6/29/11	VOCs/Dioxane Primary	SL-129-SA5DN-SB-3.0 SL-129-SA5DN-SB-2.5-3.5
Surface	130	North of former Buildings 4353/4854.	Historical Site Assessment (HSA) Aerial Photo Feature, "Drainage".	0.5	"trace gravel and sandstone fragments"	6/1/11	Primary	SL-130-SA5DN-SS-0.0-0.5
Subsurface	130	North of former Buildings 4353/4854.	Historical Site Assessment (HSA) Aerial Photo Feature, "Drainage".	4.0	None indicated Refusal on sandstone	5/25/11	VOCs/Dioxane Primary	SL-130-SA5DN-SB-4.5 SL-130-SA5DN-SB-4.0-5.0
Surface	131	East of former Buildings 4353/4854.	Former Building 4353/4854 leach field. Geophysical, "Magnetometer". Aerial Photo Feature, " Mounded Material/Drainage Channel".	0.5	"trace gravel"	6/2/11	Primary	SL-131-SA5DN-SS-0.0-0.5
Subsurface	131	East of former Buildings 4353/4854.	Former Building 4353/4854 leach field. Geophysical, "Magnetometer". Aerial Photo Feature, " Mounded Material/Drainage Channel".	4.5	None indicated Refusal on sandstone	6/28/11	VOCs/Dioxane Primary	SL-131-SA5DN-SB-4.0 SL-131-SA5DN-SB-3.5-4.5
Surface	132	Northeast of former Building 4854.	Location of former leach field associated with former Building 4353/4854. Geophysical Anomaly, "Magnetometer".	0.5	None indicated	6/2/11	Primary&Secondary	SL-132-SA5DN-SS-0.0-0.5
Subsurface	132	Northeast of former Building 4854.	Location of former leach field associated with former Building 4353/4854. Geophysical Anomaly, "Magnetometer".	5.0	Fill "comprised of silty sand" from 0 to 3.0 ft Fill "well graded gravel with sand, 10% fine to subangular gravel" from 3.0 to 4.0 ft Refusal on sandstone	6/28/11	VOCs/Dioxane/GRO Primary&Secondary	SL-132-SA5DN-SB-4.5 SL-132-SA5DN-SB-4.0-5.0
Surface	133	Northeast of former Building 4854.	Location of former leach field associated with former Building 4353/4854.	0.5	"5% gravel and sandstone fragments"	6/2/11	Primary&Secondary	SL-133-SA5DN-SS-0.0-0.5
Subsurface	133	Northeast of former Building 4854.	Location of former leach field associated with former Building 4353/4854.	7.0	Fill "sandy silt" with asphalt chunks from 0 to 1.0 ft Refusal on siltstone	5/25/11	VOCs/Dioxane/GRO Primary&Secondary	SL-133-SA5DN-SB-4.5 SL-133-SA5DN-SB-4.0-5.0
Surface	134	North side of Former Building 4353.	Location of pipe line leading to the leach field. Geophysical Anomaly, "Magnetometer".	0.5	"10% rock fragments and gravel fill"	6/2/11	Primary&Secondary	SL-134-SA5DN-SS-0.0-0.5
Subsurface	134	North side of Former Building 4353.	Location of pipe line leading to the leach field. Geophysical Anomaly, "Magnetometer".	2.5	Fill "silty sand " with concrete debris from 0 to 1.7 ft Refusal on mudstone	No sample due to shallow refusal <2.5 ft 6/2/11	NA	NA

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	135	Former Building 4353 footprint.	Potential radiological contamination from activities associated with former Building 4353.	0.5	"10% gravel fill rand siltstone/sandstone"	6/2/11	Primary&Secondary	SL-135-SA5DN-SS-0.0-0.5
Subsurface	135	Former Building 4353 footprint.	Potential radiological contamination from activities associated with former Building 4353.	1.5	Fill "sandy silt" with trace angular (fill rock) from 0 to 1.0 ft Refusal on mudstone	No sample due to shallow refusal <2.5 ft 5/25/11	NA	NA
Surface	136	Former Building 4353 footprint.	Potential radiological contamination from activities associated with former Building 4353.	0.5	"15% gravel fill rock"	6/2/11	Primary&Secondary	SL-136-SA5DN-SS-0.0-0.5
Subsurface	136	Former Building 4353 footprint.	Potential radiological contamination from activities associated with former Building 4353.	1.5	Fill "sandy silt with trace granitic gravel (fill rock)" from 0 to 1.0 ft Refusal on sandstone	No sample due to shallow refusal <2.5 ft 6/02/11	NA	NA
Surface	137	South side of former Building 4353 footprint.	Potential radiological contamination from activities associated with former Building 4353.	0.5	"5% gravel fill and sandstone fragments"	6/2/11	Primary&Secondary	SL-137-SA5DN-SS-0.0-0.5
Subsurface	137	South side of former Building 4353 footprint.	Potential radiological contamination from activities associated with former Building 4353.	1.5	Fill "sandy silt with trace concrete debris" from 0 to 1.2 ft Refusal on sandstone	No sample due to shallow refusal <2.5 ft 6/02/11	NA	NA
Surface	138	South of former building 4353.	Possible open storage associated with former Building 4353.	0.5	"15% gravel fill and sandstone fragments"	6/2/11	Primary&Secondary	SL-138-SA5DN-SS-0.0-0.5MS
Subsurface	138	South of former building 4353.	Possible open storage associated with former Building 4353.	2.5	Fill "silty sand with trace asphalt" from 0 to 0.5 ft Refusal on siltstone	No sample due to shallow refusal <2.5 ft 5/24/11	NA	NA
Surface	139	Southeast of former building 4353.	Possible open storage associated with former Building 4353.	0.5	None indicated	6/2/11	Primary&Secondary	SL-139-SA5DN-SS-0.0-0.5
Subsurface	139	Southeast of former building 4353.	Possible open storage associated with former Building 4353.	3.0	Fill "sandy silt" from 0 to 3.9 ft Refusal on sandstone	5/24/11	VOCs/Dioxane/GRO Primary&Secondary	SL-139-SA5DN-SB-2.5 SL-139-SA5DN-SB-2.0-3.0
Surface	140	Southeast of former building 4854.	HSA "Historical Drainage". Geophysical Anomaly, "Magnetometer".	0.5	None indicated	6/2/11	Primary&Secondary	SL-140-SA5DN-SS-0.0-0.5
Subsurface	140	Southeast of former building 4854.	HSA "Historical Drainage". Geophysical Anomaly, "Magnetometer".	6.5	"trace fine gravel (angular)" from 3.5 to 5.5 ft Refusal on sandstone	5/25/11	VOCs/Dioxane/GRO Primary&Secondary	SL-140-SA5DN-SB-2.5 SL-140-SA5DN-SB-2.0-3.0
Surface	141	Southeast of former building 4854.	Historical Data	0.5	None indicated	6/2/11	Primary&Secondary	SL-141-SA5DN-SS-0.0-0.5
Subsurface	141	Southeast of former building 4854.	Historical Data	5.0	None indicated Refusal on siltstone	6/28/11	VOCs/Dioxane/GRO Primary&Secondary	SL-141-SA5DN-SB-4.5 SL-141-SA5DN-SB-4.0-5.0
Surface	142	South of former building 4854.	Historical Data	0.5	None indicated	6/2/11	Primary	SL-142-SA5DN-SS-0.0-0.5
Subsurface	142	South of former building 4854.	Historical Data	3.0	None indicated Refusal on sandstone	5/25/11	VOCs/Dioxane Primary	SL-142-SA5DN-SB-2.5 SL-142-SA5DN-SB-2.0-3.0
Subsurface	143	Southeast of former building 4854.	HSA "Historical Drainage". Geophysical Anomaly, "Conductivity".	5.0	None indicated Refusal on siltstone	6/28/11	VOCs/Dioxane Primary	SL-143-SA5DN-SB-4.5 SL-143-SA5DN-SB-4.0-5.0

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Drainage	143	Southeast of former building 4854.	HSA "Historical Drainage". Geophysical Anomaly, "Conductivity".	0.5	None indicated	6/2/11	Primary	SL-143-SA5DN-SS-0.0-0.5
Surface	144	South of former building 4854.	Aerial Photo Feature, "Possible Open Storage".	0.5	None indicated	6/2/11	Primary	SL-144-SA5DN-SS-0.0-0.5
Subsurface	144	South of former building 4854.	Aerial Photo Feature, "Possible Open Storage".	3.0	None indicated Refusal on siltstone	5/25/11	VOCs/Dioxane Primary	SL-144-SA5DN-SB-2.5MS SL-144-SA5DN-SB-2.0-3.0MS
Surface	145	South of former Buildings 4353/4854.	Aerial Photo Feature, "Possible Open Storage".	0.5	"5% gravel fill and sandstone fragments"	6/2/11	Primary	SL-145-SA5DN-SS-0.0-0.5
Subsurface	145	South of former Buildings 4353/4854.	Aerial Photo Feature, "Possible Open Storage".	3.0	None indicated Refusal on sandstone	5/24/11	VOCs/Dioxane Primary	SL-145-SA5DN-SB-2.5 SL-145-SA5DN-SB-2.0-3.0
Subsurface	146	South side of L Street, south of former Building 4353.	Characterize subsurface soil in ditch on the south side of former L Street.	5.0	None indicated Refusal on sandstone	5/24/11	VOCs/Dioxane Primary	SL-146-SA5DN-SB-2.5 SL-146-SA5DN-SB-2.0-3.0
Subsurface	147	North side of L Street, south of former Building 4353.	Investigate potential radiological contamination in sediment/soil in ditch on the south side of former L Street.	2.0	None indicated Refusal on sandstone	No sample due to shallow refusal < 2.5 ft 6/28/11	NA	NA
Subsurface	148	In ditch on the south side of former L Street.	Potential radiological contamination from activities associated with former Buildings 4473/4873/4863/4363. Historical Data.	2.0	None indicated Refusal on siltstone	No sample due to shallow refusal < 2.5 ft 6/28/11	NA	NA
Drainage	148	In ditch on the south side of former L Street.	Potential radiological contamination from activities associated with former Buildings 4473/4873/4863/4363. Historical Data.	0.5	None indicated	6/1/11	Primary	SL-148-SA5DN-SS-0.0-0.5
Surface	149	South of former Buildings 4353/4854.	Aerial Photo Feature, "Possible Open Storage".	0.5	None indicated	6/2/11	Primary	SL-149-SA5DN-SS-0.0-0.5
Subsurface	149	South of former Buildings 4353/4854.	Aerial Photo Feature, "Possible Open Storage".	5.0	None indicated Refusal on sandstone	7/11/11	VOCs/Dioxane Primary	SL-149-SA5DN-SB-4.5 SL-149-SA5DN-SB-4.0-5.0
Surface	150	South of former Building 4353/4854.	Aerial Photo Feature, "Possible Open Storage". Geophysical Feature, "Magnetometer".	0.5	None indicated	6/2/11	Primary	SL-150-SA5DN-SS-0.0-0.5
Subsurface	150	South of former Building 4353/4854.	Aerial Photo Feature, "Possible Open Storage". Geophysical Feature, "Magnetometer".	5.0	None indicated Refusal on siltstone	5/24/11	VOCs/Dioxane Primary	SL-150-SA5DN-SB-4.5 SL-150-SA5DN-SB-4.0-5.0
Surface	151	South of former Building 4353/4854.	Elevated gamma survey readings,"PGRAY 5". Geophysical Anomaly, "Conductivity". Berm and soil disturbance area.	0.5	None indicated	6/2/11	Primary	SL-151-SA5DN-SS-0.0-0.5
Subsurface	151	South of former Building 4353/4854.	Elevated gamma survey readings,"PGRAY 5". Geophysical Anomaly, "Conductivity". Berm and soil disturbance area.	1.0	None indicated Refusal on siltstone	No sample due to shallow refusal < 1.0 ft bgs 6/29/11	NA	NA
Surface	152	South of former Building 4353/4854.	Elevated gamma survey readings,"PGRAY 6". Geophysical Anomaly, "Conductivity". Berm and soil disturbance area.	0.5	None indicated	6/3/11	Primary	SL-152-SA5DN-SS-0.0-0.5
Subsurface	152	South of former Building 4353/4854.	Elevated gamma survey readings,"PGRAY 6". Geophysical Anomaly, "Conductivity". Berm and soil disturbance area.	3.5	None indicated Refusal on sandstone	6/29/11	VOCs/Dioxane Primary	SL-152-SA5DN-SB-3.0 SL-152-SA5DN-SB-2.5-3.5
Surface	153	South of former Building 4353/4854.	Geophysical Anomaly,"Conductivity". Elevated gamma survey readings.	0.5	None indicated	6/3/11	Primary	SL-153-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	153	South of former Building 4353/4854.	Geophysical Anomaly, "Conductivity". Elevated gamma survey readings.	8.0	None indicated Refusal on siltstone	8/8/11	Primary Primary	SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0
Surface	154	South of former Building 4353/4854.	Aerial Photo Feature, "Ground Scar".	0.5	None indicated	6/3/11	Primary	SL-154-SA5DN-SS-0.0-0.5
Subsurface	154	South of former Building 4353/4854.	Aerial Photo Feature, "Ground Scar".	10.0	None indicated	6/29/11	VOCs/Dioxane Primary Primary	SL-154-SA5DN-SB-4.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0
Surface	155	South of former Building 4353/4854.	Aerial Photo Feature, "Medium Toned Mounded Material".	0.5	None indicated	6/3/11	Primary	SL-155-SA5DN-SS-0.0-0.5MS
Subsurface	155	South of former Building 4353/4854.	Aerial Photo Feature, "Medium Toned Mounded Material".	10.0	None indicated	7/8/11	VOCs/Dioxane Primary Primary	SL-155-SA5DN-SB-4.5 SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0
Surface	156	South of former Building 4353/4854.	Aerial Photo Feature, "Medium Toned Mounded Material".	0.5	None indicated	6/3/11	Primary	SL-156-SA5DN-SS-0.0-0.5
Subsurface	156	South of former Building 4353/4854.	Aerial Photo Feature, "Medium Toned Mounded Material".	10.0	None indicated	7/8/11	VOCs/Dioxane Primary Primary	SL-156-SA5DN-SB-4.5 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0
Surface	157	Southeast portion of Subarea 5DN.	Aerial Photo Feature, "Mounded Material". Historical Data	0.5	None indicated	6/3/11	Primary	SL-157-SA5DN-SS-0.0-0.5
Subsurface	157	Southeast portion of Subarea 5DN.	Aerial Photo Feature, "Mounded Material". Historical Data	10.0	None indicated	7/8/11	VOCs/Dioxane Primary Primary	SL-157-SA5DN-SB-4.5 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0
Surface	158	Southeast portion of Subarea 5DN.	Historical Data	0.5	None indicated	6/3/11	Primary	SL-158-SA5DN-SS-0.0-0.5
Subsurface	158	Southeast portion of Subarea 5DN.	Historical Data	10.0	None indicated	7/8/11	VOCs/Dioxane Primary Primary	SL-158-SA5DN-SB-4.5 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0
Surface	159	South east corner of Subarea 5DN.	Elevated gamma survey readings.	0.5	"trace sandstone fragments"	6/3/11	Primary	SL-159-SA5DN-SS-0.0-0.5
Subsurface	159	South east corner of Subarea 5DN.	Elevated gamma survey readings.	10.0	None indicated	7/8/11	VOCs/Dioxane Primary Primary	SL-159-SA5DN-SB-4.5 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0
Surface	160	South east corner of Subarea 5DN.	Elevated gamma survey readings.	0.5	None indicated	6/3/11	Primary	SL-160-SA5DN-SS-0.0-0.5
Subsurface	160	South east corner of Subarea 5DN.	Elevated gamma survey readings.	7.0	None indicated Refusal on siltstone	8/2/11	Primary	SL-160-SA5DN-SB-4.0-5.0
Surface	162	Southeast of former Building 4865.	Aerial Photo Feature, "Ground Scar".	0.5	None indicated	6/3/11	Primary	SL-162-SA5DN-SS-0.0-0.5
Subsurface	162	Southeast of former Building 4865.	Aerial Photo Feature, "Ground Scar".	10.0	None indicated	8/2/11	Primary Primary	SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
Surface	164	Northeast of former Building 4865.	Downgradient of former Building 4865.	0.5	None indicated	5/26/11	Primary	SL-164-SA5DN-SS-0.0-0.5
Subsurface	164	Northeast of former Building 4865.	Downgradient of former Building 4865.	10.0	"Fill: clayey silt" from 0 to 1.5 ft	7/7/11	VOCs/Dioxane Primary Primary	SL-164-SA5DN-SB-4.5 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0
Surface	165	Former Building 4865.	Historical use of Co-60 with a depleted uranium collimator in the former building.	0.5	None indicated	5/26/11	Primary	SL-165-SA5DN-SS-0.0-0.5
Subsurface	165	Former Building 4865.	Historical use of Co-60 with a depleted uranium collimator in the former building.	10.0	"Concrete" layer from 0.5 to 1.0 ft	6/29/11	VOCs/Dioxane Primary Primary	SL-165-SA5DN-SB-4.5 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0
Surface	166	North of former Building 4865.	Approx location of unknown site activities noted in 1992 aerial photo.	0.5	None indicated	6/3/11	Primary	SL-166-SA5DN-SS-0.0-0.5
Subsurface	166	North of former Building 4865.	Approx location of unknown site activities noted in 1992 aerial photo.	10.0	Fill "clayey silt" from 0 to 5.0 ft	7/7/11	VOCs/Dioxane Primary Primary	SL-166-SA5DN-SB-4.5MS SL-166-SA5DN-SB-4.0-5.0MS SL-166-SA5DN-SB-9.0-10.0

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	167	North of former Building 4865.	Potential radiological contamination in ditch along the west side of 24th Street.	10.0	None indicated	7/7/11	VOCs/Dioxane Primary Primary	SL-167-SA5DN-SB-4.5 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0
Subsurface	168	West of former Building 4363.	Potential radiological contamination in ditch along the west side of 24th Street.	10.0	Fill "clayey silt" from 0 to 1.5 ft	7/7/11	VOCs/Dioxane Primary Primary	SL-168-SA5DN-SB-4.5 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0
Subsurface	169	South of former Building 4020.	Downgradient of the former Parking Lot 4520.	10.0	None indicated	7/7/11	VOCs/Dioxane Primary Primary	SL-169-SA5DN-SB-4.5 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5
Surface	170	North portion of Fill Area 13.	Aerial Photo Feature, "Mounded Material". Geophysical Anomaly, "Conductivity".	0.5	"trace sandstone fragments"	5/26/11	Primary	SL-170-SA5DN-SS-0.0-0.5
Subsurface	170	North portion of Fill Area 13.	Aerial Photo Feature, "Mounded Material". Geophysical Anomaly, "Conductivity".	10.0	"15% gravel fill rock and sandstone rock fragments" from 0 to 2.5 ft "15% gravel fill rock" from 3.5 to 5.0 ft	8/1/11	Primary Primary	SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0
Surface	171	North portion of Fill Area 13.	Elevated gamma survey readings. Geophysical Anomaly, "Magnetometer". Aerial Photo Feature, "Mounded Material".	0.5	"15% gravel fill, sandstone fragments, asphalt"	5/26/11	Primary&Secondary	SL-171-SA5DN-SS-0.0-0.5
Subsurface	171	North portion of Fill Area 13.	Elevated gamma survey readings. Geophysical Anomaly, "Magnetometer". Aerial Photo Feature, "Mounded Material".	2.5	"30% gravel fill rock, asphalt, concrete pieces" from 0 to 1.0 ft "15% gravel fill rock" from 1.0 to 2.5 ft Refusal on sandstone	No sample due to shallow refusal < 2.5 ft bgs 7/28/11	NA	NA
Surface	172	Fill Area 13, south of former Building 4020, west of 24th Street.	Geophysical Anomaly, "Conductivity and Magnetometer".	0.5	"5% gravel fill"	5/26/11	Primary	SL-172-SA5DN-SS-0.0-0.5
Subsurface	172	Fill Area 13, south of former Building 4020, west of 24th Street.	Geophysical Anomaly, "Conductivity and Magnetometer".	10.0	"30% gravel fill rock and sandstone/siltstone fragments " from 0 to 3.0 ft	7/28/11	Primary Primary	SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0
Surface	173	North portion of Fill Area 13.	Elevated gamma survey readings, "PGRAY 2". Geophysical Anomaly, "Magnetometer". Aerial Photo Feature, "Excavation".	0.5	"5% gravel fill and sandstone fragments"	5/26/11	Primary	SL-173-SA5DN-SS-0.0-0.5
Subsurface	173	North portion of Fill Area 13.	Elevated gamma survey readings, "PGRAY 2". Geophysical Anomaly, "Magnetometer". Aerial Photo Feature, "Excavation".	10.0	"15% gravel fill" from 0 to 1.0 ft	8/1/11	Primary Primary	SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0
Surface	174	North portion of Fill Area 13.	Elevated gamma survey readings. Geophysical Anomaly, "Magnetometer".	0.5	"30% gravel fill and sandstone fragments"	5/26/11	Primary	SL-174-SA5DN-SS-0.0-0.5
Subsurface	174	North portion of Fill Area 13.	Elevated gamma survey readings. Geophysical Anomaly, "Magnetometer".	10.0	"25% gravel fill rock" from 0 to 4.0 ft "15% gravel fill rock" from 4.0 to 5.0 ft	7/29/11	Primary Primary	SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0
Surface	175	North portion of Fill Area 13.	Geophysical Anomaly, "Magnetometer and Conductivity". Aerial Photo Feature, "Trench".	0.5	"5% sandstone rock fragments and asphalt"	5/26/11	Primary&Secondary	SL-175-SA5DN-SS-0.0-0.5
Subsurface	175	North portion of Fill Area 13.	Geophysical Anomaly, "Magnetometer and Conductivity". Aerial Photo Feature, "Trench".	10.0	"10% gravel and sandstone fragments" from 0 to 3.0 ft	8/1/11	GRO Primary&Secondary GRO Primary&Secondary	SL-175-SA5DN-SB-4.5MS SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-9.5 SL-175-SA5DN-SB-9.0-10.0
Surface	176	West portion of Fill Area 13.	Elevated gamma survey reading, "PGRAY 1". Aerial Photo Feature, "Ground Scar".	0.5	None indicated	5/26/11	Primary	SL-176-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	176	West portion of Fill Area 13.	Elevated gamma survey reading, "PGRAY 1". Aerial Photo Feature, "Ground Scar".	10.0	"trace gravel, sandstone and concrete pieces" from 0 to 1.0 ft "10% gravel fill rock and asphalt" from 1.0 to 4.5 ft "trace gravel" from 4.5 to 6.0 ft	8/1/11	Primary Primary	SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0
Surface	179	East portion of Fill Area 13.	Geophysical Anomaly, "Conductivity". Aerial Photo Feature, "Mounded Material". Elevated gamma survey readings.	0.5	"trace sandstone fragments"	5/26/11	Primary&Secondary	SL-179-SA5DN-SS-0.0-0.5
Subsurface	179	East portion of Fill Area 13.	Geophysical Anomaly, "Conductivity". Aerial Photo Feature, "Mounded Material". Elevated gamma survey readings.	10.0	"5% gravel fill" from 2.0 to 3.0 ft	7/27/11	GRO Primary&Secondary GRO Primary&Secondary	SL-179-SA5DN-SB-4.5 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.5 SL-179-SA5DN-SB-9.0-10.0
Surface	180	Northwest of former Building 4865.	Aerial Photo Feature, "Excavation". Geophysical Anomaly, "Magnetometer and Conductivity".	0.5	None indicated	5/26/11	Primary	SL-180-SA5DN-SS-0.0-0.5
Subsurface	180	Northwest of former Building 4865.	Aerial Photo Feature, "Excavation". Geophysical Anomaly, "Magnetometer and Conductivity".	10.0	"15% gravel fill rock, concrete and sandstone fragments" from 0 to 1.0 ft "trace fine gravel" from 1.0 to 2.0 ft	7/29/11	Primary Primary	SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0
Surface	181	Northwest of former Building 4865.	Aerial Photo Feature, "Ground Scar". Geophysical Anomaly, "Magnetometer and Conductivity".	0.5	"trace sandstone rock fragments and gravel fill"	5/26/11	Primary	SL-181-SA5DN-SS-0.0-0.5
Subsurface	181	Northwest of former Building 4865.	Aerial Photo Feature, "Ground Scar". Geophysical Anomaly, "Magnetometer and Conductivity".	10.0	None indicated	6/30/11	VOCs/Dioxane Primary Primary	SL-181-SA5DN-SB-4.5 SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0
Surface	182	Southeast portion of Fill Area 13.	Aerial Photo Feature, "Mounded Material". Geophysical Anomaly, "Conductivity".	0.5	"15% gravel fill and sandstone fragments"	5/26/11	Primary	SL-182-SA5DN-SS-0.0-0.5
Subsurface	182	Southeast portion of Fill Area 13.	Aerial Photo Feature, "Mounded Material". Geophysical Anomaly, "Conductivity".	10.0	"5% fine gravel (granitic)"	6/30/11	VOCs/Dioxane Primary Primary	SL-182-SA5DN-SB-4.5 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0
Surface	183	Southeast portion of Fill Area 13.	Geophysical Anomaly, "Magnetometer". Aerial Photo Feature, "Mounded Material". Elevated gamma survey readings.	0.5	None indicated	5/26/11	Primary	SL-183-SA5DN-SS-0.0-0.5
Subsurface	183	Southeast portion of Fill Area 13.	Geophysical Anomaly, "Magnetometer". Aerial Photo Feature, "Mounded Material". Elevated gamma survey readings.	10.0	"5% sandstone rock fragments and black plastic (trash bag) found (0.5'), trace gravel fill" from 0 to 1.0 ft 5% gravel fill rock and sandstone rock fragments" from 1.0 to 2.0 ft	7/28/11	Primary Primary	SL-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-9.0-10.0
Surface	184	Southeast portion of Fill Area 13.	Aerial Photo Feature, "Mounded Material". Geophysical Anomaly, "Conductivity".	0.5	"15% gravel fill rock"	5/26/11	Primary	SL-184-SA5DN-SS-0.0-0.5
Subsurface	184	Southeast portion of Fill Area 13.	Aerial Photo Feature, "Mounded Material". Geophysical Anomaly, "Conductivity".	10.0	"trace asphalt debris, trace granitic fine gravel" from 0 to 3.2 ft "asphalt debris" from 1.8 to 2.2 ft	6/30/11	VOCs/Dioxane Primary Primary	SL-186-SA5DN-SB-4.5 SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.5 SL-186-SA5DN-SB-9.0-10.0
Surface	185	Pond Dredge Area - Southeast portion of Fill Area 14.	Geophysical Anomaly, "Conductivity".	0.5	None indicated	5/24/11	Primary	SL-185-SA5DN-SS-0.0-0.5
Subsurface	185	Pond Dredge Area - Southeast portion of Fill Area 14.	Geophysical Anomaly, "Conductivity".	10.0	"trace gravel" from 0 to 2.0 ft "trace asphalt pieces" from 2.0 to 3.0 ft	8/4/11	Primary Primary	SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0
Surface	186	Pond Dredge Area - Southeast portion of Fill Area 14.	Aerial Photo Feature, "Light Toned Material".	0.5	None indicated	5/24/11	Primary & Secondary	SL-186-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	186	Pond Dredge Area - Southeast portion of Fill Area 14.	Aerial Photo Feature, "Light Toned Material".	10.0	"fill material: clayey silt" from 0 to 3.0 ft	7/5/11	VOCs/Dioxane/GRO Primary& Secondary Primary& Secondary	SL-184-SA5DN-SB-4.5 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0
Surface	187	Pond Dredge Area - Southeast portion of Fill Area 14.	Aerial Photo Feature, "Light Toned Material".	0.5	None indicated	5/24/11	Primary	SL-187-SA5DN-SS-0.0-0.5
Subsurface	187	Pond Dredge Area - Southeast portion of Fill Area 14.	Aerial Photo Feature, "Light Toned Material".	10.0	"rusted metal strap" at 5.0 ft	6/30/11	VOCs/Dioxane Primary Primary	SL-187-SA5DN-SB-4.5 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0
Surface	188	Pond Dredge Area - Southeast portion of Fill Area 14.	Geophysical Anomaly, "Conductivity".	0.5	None indicated	5/24/11	Primary	SL-188-SA5DN-SS-0.0-0.5
Subsurface	188	Pond Dredge Area - Southeast portion of Fill Area 14.	Geophysical Anomaly, "Conductivity".	10.0	None indicated	8/3/11	Primary Primary	SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0
Surface	189	Pond Dredge Area - Southern portion of Fill Area 14.	Historical data	0.5	None indicated	5/24/11	Primary	SL-189-SA5DN-SS-0.0-0.5
Subsurface	189	Pond Dredge Area - Southern portion of Fill Area 14.	Historical data	10.0	None indicated	8/4/11	Primary Primary	SL-189-SA5DN-SB-4.0-5.0MS SL-189-SA5DN-SB-9.0-10.0
Surface	190	Pond Dredge Area - Southwest portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer".	0.5	None indicated	5/25/11	Primary	SL-190-SA5DN-SS-0.0-0.5
Subsurface	190	Pond Dredge Area - Southwest portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer".	10.0	Fill "clayey silt" with trace gravel from 0 to 3.0 ft	7/6/11	VOCs/Dioxane Primary Primary	SL-190-SA5DN-SB-4.5 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0
Surface	191	Pond Dredge Area - Southwest portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Slightly elevated gamma readings.	0.5	None indicated	5/24/11	Primary&Secondary	SL-191-SA5DN-SS-0.0-0.5
Subsurface	191	Pond Dredge Area - Southwest portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Slightly elevated gamma readings.	10.0	Fill "silt w/ clay" with trace gravel from 0 to 3.5 ft	7/6/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-191-SA5DN-SB-4.5 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.5 SL-191-SA5DN-SB-9.0-10.0
Surface	192	Pond Dredge Area - South central portion of Fill Area 14.	Historical Data	0.5	None indicated	5/24/11	Primary&Secondary	SL-192-SA5DN-SS-0.0-0.5
Subsurface	192	Pond Dredge Area - South central portion of Fill Area 14.	Historical Data	10.0	Fill "clayey silt with sand" from 0 to 3.0 ft	7/5/11	VOCs/Dioxane/GRO Primary&Secondary Primary&Secondary	SL-192-SA5DN-SB-4.5 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0
Surface	193	Pond Dredge Area - South central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	0.5	None indicated	5/24/11	Primary	SL-193-SA5DN-SS-0.0-0.5
Subsurface	193	Pond Dredge Area - South central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	10.0	None indicated	8/3/11	Primary Primary	SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0
Surface	194	Pond Dredge Area - Southeast portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	0.5	None indicated	5/24/11	Primary	SL-194-SA5DN-SS-0.0-0.5
Subsurface	194	Pond Dredge Area - Southeast portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	10.0	None indicated	7/5/11	VOCs/Dioxane Primary Primary	SL-194-SA5DN-SB-4.5 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0
Surface	195	Pond Dredge Area - South central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	0.5	None indicated	5/24/11	Primary	SL-195-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	195	Pond Dredge Area - South central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	10.0	Fill "sand silt with clay" from 0 to 4.5 ft	7/5/11	VOCs/Dioxane Primary Primary	SL-195-SA5DN-SB-4.5 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0
Surface	196	Pond Dredge Area - Central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity ". Aerial Photo Feature, "Fill".	0.5	None indicated	5/24/11	Primary	SL-196-SA5DN-SS-0.0-0.5
Subsurface	196	Pond Dredge Area - Central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity ". Aerial Photo Feature, "Fill".	10.0	Fill "clayey silt " with trace green plastic shards from 0 to 3.0 ft	6/30/11	VOCs/Dioxane Primary Primary	SL-196-SA5DN-SB-4.5 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0
Surface	197	Pond Dredge Area - Central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	0.5	None indicated	5/24/11	Primary&Secondary	SL-197-SA5DN-SS-0.0-0.5
Subsurface	197	Pond Dredge Area - Central portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	10.0	None indicated	6/30/11	VOCs/Dioxane/GRO Primary&Secondary VOCs/Dioxane/GRO Primary&Secondary	SL-197-SA5DN-SB-4.5 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.5 SL-197-SA5DN-SB-9.0-10.0
Surface	198	Pond Dredge Area - North portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	0.5	"5% rock fragments (sandstone and asphalt)"	5/24/11	Primary&Secondary	SL-198-SA5DN-SS-0.0-0.5
Subsurface	198	Pond Dredge Area - North portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill".	10.0	"trace gravel - subangular (volcanic, some quartz) from 0 to 2.5 ft "trace asphalt debris" at 10.0 ft	8/5/11	GRO Primary&Secondary GRO Primary&Secondary	SL-198-SA5DN-SB-4.5 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.5 SL-198-SA5DN-SB-9.0-10.0
Surface	199	Pond Dredge Area - West portion of Fill Area 14.	Slightly elevated gamma survey readings.	0.5	None indicated	5/25/11	Primary	SL-199-SA5DN-SS-0.0-0.5
Subsurface	199	Pond Dredge Area - West portion of Fill Area 14.	Slightly elevated gamma survey readings.	10.0	None indicated	7/11/11	VOCs/Dioxane Primary Primary	SL-199-SA5DN-SB-4.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0
Surface	200	Southwest corner of Subarea 5DN.	Geophysical Anomaly, "Conductivity".	0.5	None indicated	5/25/11	Primary	SL-200-SA5DN-SS-0.0-0.5
Subsurface	200	Southwest corner of Subarea 5DN.	Geophysical Anomaly, "Conductivity".	10.0	None indicated	7/6/11	VOCs/Dioxane Primary Primary	SL-200-SA5DN-SB-4.5MS SL-200-SA5DN-SB-4.0-5.0MS SL-200-SA5DN-SB-9.0-10.0
Surface	201	Southwest corner of Subarea 5DN.	Aerial Photo Feature, "Trench".	0.5	None indicated	5/25/11	Primary	SL-201-SA5DN-SS-0.0-0.5MS
Subsurface	201	Southwest corner of Subarea 5DN.	Aerial Photo Feature, "Trench".	10.0	"Fill: clayey silt" from 0 to 4.0 ft	7/6/11	VOCs/Dioxane Primary Primary	SL-201-SA5DN-SB-4.5 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0
Surface	202	Northeast corner of former Parking Lot 4520	Stakeholder Request - Staging area for the D&D of former Building 4020.	0.5	"15% gravel fill"	5/18/11	Primary	SL-202-SA5DN-SS-0.0-0.5
Subsurface	202	Northeast corner of former Parking Lot 4521	Stakeholder Request - Staging area for the D&D of former Building 4020.	10.0	"5% gravel (fill rock) from 0 to 1.0 ft	6/13/11	VOCs/Dioxane Primary Primary	SL-202-SA5DN-SB-4.5 SL-202-SA5DN-SB-4.0-5.0 SL-202-SA5DN-SB-9.0-10.0
Surface	203	Pond Dredge Area - East portion of Fill Area 14.	Aerial Photo Feature, "Fill Area".	0.5	None indicated	5/24/11	Primary	SL-203-SA5DN-SS-0.0-0.5
Subsurface	203	Pond Dredge Area - East portion of Fill Area 14.	Aerial Photo Feature, "Fill Area".	10.0	Fill "silty clay" from 0 to 2.1 ft	6/30/11	VOCs/Dioxane Primary Primary	SL-203-SA5DN-SB-4.5 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0
Surface	204	Pond Dredge - West portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill". - Stakeholder Request	0.5	None indicated	5/24/11	Primary	SL-204-SA5DN-SS-0.0-0.5

Table 2-1
Soil Samples Collected from HSA Subarea 5D North

Sample Type	EPA Location ID	Location Description From EPA	EPA Technical Justification for Sample Collection	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Subsurface	204	Pond Dredge - West portion of Fill Area 14.	Geophysical Anomaly, "Conductivity and Magnetometer". Aerial Photo Feature, "Fill". - Stakeholder Request	10.0	None indicated	8/4/11	Primary Primary	SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0
Surface	205	Southwest corner of Subarea 5DN.	Possible open storage - Stakeholder Request	0.5	None indicated	5/25/11	Primary	SL-205-SA5DN-SS-0.0-0.5
Subsurface	205	Southwest corner of Subarea 5DN.	Possible open storage - Stakeholder Request	10.0	Fill "clayey silt" from 0 to 3.0 ft	7/6/11	VOCs/Dioxane Primary Primary	SL-205-SA5DN-SB-4.5 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0
Surface	206	West side of former Building 4373.	Entry way to former Building 4373 - Stakeholder Request	0.5	"5% gravel"	5/17/11	Primary&Energetics	SL-206-SA5DN-SS-0.0-0.5
Subsurface	206	West side of former Building 4373.	Entry way to former Building 4373 - Stakeholder Request	5.0	Fill "silt with clay and sand" with angular medium gravel (fill rock) from 0 to 1.5 ft Refusal on sandstone	5/19/11	VOCs/Dioxane Primary&Energetics	SL-206-SA5DN-SB-4.5 SL-206-SA5DN-SB-4.0-5.0
Surface	207	West side of former Building 4373.	Entry way to former Building 4373 - Stakeholder Request	0.5	None indicated	6/3/11	Primary&Secondary	SL-207-SA5DN-SS-0.0-0.5
Subsurface	207	West side of former Building 4373.	Entry way to former Building 4373 - Stakeholder Request	6.8	None indicated Refusal on Sandstone	8/11/11	GRO Primary&Secondary	SL-207-SA5DN-SB-4.5 SL-207-SA5DN-SB-4.0-5.0

Notes & Abbreviations:
EPA Location ID is highlighted in yellow for subsurface locations that were sampled using a hand auger
Primary analyses include: SVOCs, Metals, Chromium VI, Fluoride, Perchlorate, PCBs/PCTs, Dioxins/Furans, pH and pesticides/herbicides in surface samples only.
Secondary analyses include: Alcohols, terphenyls, glycols, TPH-extractable fuel hydrocarbons, Formaldehyde, n-Nitrosodimethylamine, Energetics, Nitrate, Cyanide
bgs = below ground surface
dioxane = 1,4-dioxane
ft = feet
GRO = gasoline range organics
NA = not applicable
NDMA = n-Nitrosodimethylamine
SVOCs = semivolatile organic compounds
VOCs = volatile organic compounds

Table 2-2
Summary of Soil Sample Locations in Subarea 5D South

Sample Type	EPA Location ID	Location Description From EPA	EPA Radionuclide Sampling Technical Justification	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	1	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 1T	0.5	None indicated	9/26/2011	Primary	SL-001-SA5DS-SS-0.0-0.5MS
Subsurface	1	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 1T	0.8	None indicated Refusal on sandstone	No sample collected due to shallow refusal < 2.5 ft bgs 9/26/11	NA	NA
Surface	2	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 2T	0.5	None indicated	9/26/2011	Primary	SL-002-SA5DS-SS-0.0-0.5
Subsurface	2	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 2T	2.8	None indicated Refusal on sandstone	11/14/2011	Primary	SL-002-SA5DS-SB-1.8-2.8
Surface	4	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 4T	0.5	None indicated	9/27/2011	Primary	SL-004-SA5DS-SS-0.0-0.5
Subsurface	4	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 4T	0.8	None indicated Refusal on sandstone	No sample collected due to shallow refusal < 2.5 ft bgs 11/10/2011	NA	NA
Surface	5	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 5T	0.5	None indicated	9/27/2011	Primary	SL-005-SA5DS-SS-0.0-0.5
Subsurface	5	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 5T	2.0	None indicated	11/9/2011	Primary & Secondary	SL-005-SA5DS-SB-1.5 SL-005-SA5DS-SB-1.0-2.0
Surface	6	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 6T	0.5	None indicated	9/27/11 11/9/2011	Primary Primary	SL-006-SA5DS-SS-0.0-0.5MS SL-006-SA5DS-SS-0.0-0.5
Subsurface	6	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 6T	1.8	None indicated Refusal on sandstone	No sample collected due to shallow refusal < 2.5 ft bgs 11/9/2011	NA	NA
Surface	7	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 7T	0.5	None indicated	9/28/2011	Primary	SL-007-SA5DS-SS-0.0-0.5
Subsurface	7	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 7T	1.7	"trace gravel" from 0 to 1.5 ft	No sample collected due to shallow refusal < 2.5 ft bgs 11/8/2011	NA	NA
Surface	8	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 8T	0.5	None indicated	9/28/2011	Primary	SL-008-SA5DS-SS-0.0-0.5
Subsurface	8	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 8T	1.5	None indicated Refusal on sandstone	No sample collected due to shallow refusal < 2.5 ft bgs 11/8/2011	NA	NA
Surface	9	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 9T	0.5	None indicated	9/28/2011	Primary	SL-009-SA5DS-SS-0.0-0.5
Subsurface	9	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 9T	1.3	None indicated Refusal on sandstone	No sample collected due to shallow refusal < 2.5 ft bgs 10/18/2011	NA	NA
Surface	10	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 10T	0.5	None indicated	9/28/2011	Primary	SL-010-SA5DS-SS-0.0-0.5
Subsurface	10	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 10T	3.0	"trace gravel" from 0 to 3.0 ft	11/8/2011	TPH-GRO Primary & Secondary	SL-010-SA5DS-SB-2.5 SL-010-SA5DS-SB-2.0-3.0
Surface	13	Southeastern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 12T	0.5	None indicated	9/28/2011	Primary	SL-013-SA5DS-SS-0.0-0.5
Subsurface	13	Southeastern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 12T	5.0	None indicated Refusal on sandstone	10/18/2011	Primary	SL-013-SA5DS-SB-4.0-5.0
Surface	14	Southeastern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 12T	0.5	None indicated	9/28/2011	Primary	SL-014-SA5DS-SS-0.0-0.5
Subsurface	14	Southeastern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 12T	1.5	None indicated Refusal on sandstone	No sample collected due to shallow refusal < 2.5 ft bgs 10/18/2011	NA	NA
Surface	15	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 12T	0.5	None indicated	9/28/2011	Primary	SL-015-SA5DS-SS-0.0-0.5
Subsurface	15	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 12T	4.5	None indicated Refusal on sandstone	10/18/2011	Primary	SL-015-SA5DS-SB-3.5-4.5

Table 2
Summary of Soil Sample Locations in Subarea 5D South

Sample Type	EPA Location ID	Location Description From EPA	EPA Radionuclide Sampling Technical Justification	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Surface	16	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 11T	0.5	None indicated	9/28/2011	Primary	SL-016-SA5DS-SS-0.0-0.5
Subsurface	16	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 11T	5.5	None indicated Refusal on sandstone	10/19/2011	Primary	SL-016-SA5DS-SB-4.0-5.0
Surface	17	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 11T	0.5	None indicated	9/28/2011	Primary	SL-017-SA5DS-SS-0.0-0.5
Subsurface	17	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 11T	0.5	None indicated	No sample collected due to shallow refusal < 2.5 ft bgs 11/8/2011	NA	NA
Surface	19	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 8T	0.5	None indicated	9/27/2011	Primary	SL-019-SA5DS-SS-0.0-0.5
Subsurface	19	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 8T	3.2	"trace gravel" from 0 to 3.0 ft	11/8/2011	TPH-GRO Primary & Secondary	SL-019-SA5DS-SB-2.5 SL-019-SA5DS-SB-2.0-3.0
Surface	20	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 6T	0.5	None indicated	9/27/2011	Primary	SL-020-SA5DS-SS-0.0-0.5
Subsurface	20	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 6T	1.0	"trace gravel"	No sample collected due to shallow refusal < 2.5 ft bgs 11/9/2011	NA	NA
Surface	21	Southern portion of Subarea5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 5T	0.5	None indicated	9/27/2011	Primary	SL-021-SA5DS-SS-0.0-0.5
Subsurface	21	Southern portion of Subarea5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 5T	3.0	None indicated Refusal on sandstone	11/9/2011	Primary	SL-021-SA5DS-SB-2.0-3.0
Surface	22	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 4T	0.5	None indicated	9/27/2011	Primary	SL-022-SA5DS-SS-0.0-0.5
Subsurface	22	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 4T	5.3	None indicated Refusal on sandstone	11/9/2011	Primary	SL-022-SA5DS-SB-4.0-5.0
Surface	23	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 3T	0.5	None indicated	9/27/2011	Primary	SL-023-SA5DS-SS-0.0-0.5
Subsurface	23	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 3T	1.3	None indicated	No sample collected due to shallow refusal < 2.5 ft bgs 11/10/2011	NA	NA
Surface	24	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 3T	0.5	None indicated	9/27/2011	Primary	SL-024-SA5DS-SS-0.0-0.5
Subsurface	24	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 3T	1.3	None indicated	No sample collected due to shallow refusal < 2.5 ft bgs 11/10/2011	NA	NA
Surface	25	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 1T	0.5	None indicated	9/27/2011	Primary	SL-025-SA5DS-SS-0.0-0.5
Subsurface	25	Southern portion of Subarea 5D-South.	Gamma scanning results show a potential gamma radiation anomaly - PGRAY 1T	1.0	None indicated	No sample collected due to shallow refusal < 2.5 ft bgs 11/10/2011	NA	NA
Surface	26	Southern portion of Subarea 5D-South, near next to the water tower.	Potential contamination from alternate uses of the vertical tank.	0.5	"20% sandstone rock fragments, asphalt fragments"	9/26/2011	Primary	SL-026-SA5DS-SS-0.0-0.5
Subsurface	26	Southern portion of Subarea 5D-South, near next to the water tower.	Potential contamination from alternate uses of the vertical tank.	10.0	Fill "silty sand with 5% angular sandstone gravel" from 0 to 3.5 ft	10/20/2011	Primary Primary	SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0
Surface	27	Southern portion of Subarea 5D-South.	Potential contamination from alternate use of vertical tank.	0.5	"trace gravel fill rock and asphalt fragments"	9/26/2011	Primary	SL-027-SA5DS-SS-0.0-0.5
Subsurface	27	Southern portion of Subarea 5D-South.	Potential contamination from alternate use of vertical tank.	1.0	None indicated	No sample collected due to shallow refusal < 2.5 ft bgs 11/11/2011	NA	NA
Surface	28	Southern portion of Subarea 5D-South, next to Tank 4702.	Potential contamination from alternate use of vertical Tank 4702.	0.5	"30% gravel fill rock, asphalt fragments and trace sandstone fragments"	9/26/2011	Primary	SL-028-SA5DS-SS-0.0-0.5
Subsurface	28	Southern portion of Subarea 5D-South, next to Tank 4702.	Potential contamination from alternate use of vertical Tank 4702.	2.8	"10% gravel (granitic, sandstone, max = 1.5")	11/11/2011	Primary	SL-028-SA5DS-SB-1.9-2.9
Surface	29	Southern portion of Subarea 5D-South.	Potential contamination from leaking above ground pipes.	0.5	None indicated	9/26/2011	Primary	SL-029-SA5DS-SS-0.0-0.5
Subsurface	29	Southern portion of Subarea 5D-South.	Potential contamination from leaking above ground pipes.	4.5	None indicated Refusal on sandstone	11/11/2011	Primary	SL-029-SA5DS-SB-3.5-4.5

Table 2-2
Summary of Soil Sample Locations in Subarea 5D South

Sample Type	EPA Location ID	Location Description From EPA	EPA Radionuclide Sampling Technical Justification	Boring Total Depth (ft bgs)	Description of Fill Encountered (from EPA Soil Boring Log)	Sample Date	Laboratory Analyses	Co-Located Chemical Sample Number
Drainage	30	Southern portion of Subarea 5D-South, down gradient from the vertical Tanks 4701 and 4702.	Potential contamination from surface water run-off from the vertical Tanks 4701 and 4702.	0.5	None indicated	9/26/2011	Primary	SL-030-SA5DS-SS-0.0-0.5
Surface	31	Southern portion of Suarea 5D-South, next to above ground piping.	Potential contamination from leaking above ground piping associated with vertical Tanks 4701 and 4702.	0.5	None indicated	9/26/2011	Primary	SL-031-SA5DS-SS-0.0-0.5
Subsurface	31	Southern portion of Suarea 5D-South, next to above ground piping.	Potential contamination from leaking above ground piping associated with vertical Tanks 4701 and 4702.	10.0	None indicated	11/14/2011	Primary	SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0
Drainage	32	Southern portion of Subarea 5D-South, in drainage down gradient from vertical Tanks 4701 and 4702.	Potential contamination from vertical Tanks 4701 and 4702.	0.5	None indicated	9/26/2011	Primary	SL-032-SA5DS-SS-0.0-0.5
Surface	33	Southern portion of Subarea 5D-South.	Geophysical Feature, "Conductivity Anomaly".	0.5	None indicated	9/28/2011	Primary	SL-033-SA5DS-SS-0.0-0.5
Subsurface	33	Southern portion of Subarea 5D-South.	Geophysical Feature, "Conductivity Anomaly".	3.0	None indicated Refusal on siltsone	10/17/2011	Primary	SL-033-SA5DS-SB-2.0-3.0
Surface	34	Southern portion of SubArea 5D. Borrow Pit Area.	Geophysical Feature, "Conductivity Anomaly".	0.5	None indicated	9/28/2011	Primary	SL-034-SA5DS-SS-0.0-0.5MS
Subsurface	34	Southern portion of SubArea 5D. Borrow Pit Area.	Geophysical Feature, "Conductivity Anomaly".	10.0	None indicated	10/17/2011	Primary	SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-9.0-10.0
Subsurface	35	Southern portion of SubArea 5D Borrow Pit Area.	Aerial Photo Feature - "Grading Activity".	1.5	None indicated Refusal on siltstone	No sample collected due to shallow refusal < 2.5 ft bgs 10/17/2011	NA	NA
Subsurface	36	Sothern portion of Subarea 5D-South, Borrow Pit Area.	Aerial Photo Feature, "Grading Activity". Geophysical Feature, "Conductivity Anomaly".	10.0	None indicated	10/14/2011	Primary	SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0
Subsurface	37	Southeastern portion of Subarea 5D-South, Borrow Pit area.	Aerial Photo Feature, "Grading Activity ". Geophysical Feature, "Conductivity Anomaly".	10.0	None indicated	10/14/2011	Primary	SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0
Surface	38	Southern portion of SubArea 5D-South, Borrow Pit Area.	Aerial Photo Feature, "Grading Activity".	0.5	None indicated	9/27/2011	Primary	SL-038-SA5DS-SS-0.0-0.5
Subsurface	38	Southern portion of SubArea 5D-South, Borrow Pit Area.	Aerial Photo Feature, "Grading Activity".	10.0	None indicated	10/14/2011	Primary	SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0
Subsurface	39	Southern portion of Subarea 5D-South.	Geophysical Feature, "Magnetometer Anomaly".	4.0	None indicated Refusal on siltstone	10/17/2011	Primary	SL-039-SA5DS-SB-3.0-4.0
Surface	40	Northeastern corner of Subarea 5D-South.	Gamma scanning survey results indicate slightly elevated gamma readings.	0.5	None indicated	9/28/2011	Primary	SL-040-SA5DS-SS-0.0-0.5
Subsurface	40	Northeastern corner of Subarea 5D-South.	Gamma scanning survey results indicate slightly elevated gamma readings.	10.0	None indicated	10/20/2011	Primary	SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0

Notes & Abbreviations:
EPA Location ID is highlighted in yellow for subsurface locations that were sampled using a hand auger
Primary analyses include: SVOCs, Metals, Chromium VI, Fluoride, Perchlorate, PCBs/PCTs, Herbicides, Dioxins/Furans,pH and pesticides/herbicides in surface samples only.
Secondary analyses include: Alcohols, terphenyls, glycols, TPH-extractable fuel hydrocarbons, Formaldehyde, n-Nitrosodimethylamine, Energetics, Nitrate, Cyanide
bgs = below ground surface
ft = feet
GRO = gasoline range organics
NA = not applicable
NDMA = n-Nitrosodimethylamine
SVOCs = semivolatile organic compounds

All surface and drainage samples were to be analyzed for the primary sample analytes (i.e., SVOCs, PAHs, metals [including mercury], hexavalent chromium, pH, fluoride, PCBs/PCTs, dioxins, perchlorate) and pesticides and herbicides. Selected surface and drainage samples in Subarea 5D North were also to be analyzed for all of the secondary analytes (i.e., total petroleum hydrocarbons - extractable fuel hydrocarbons [TPH-EFH], TPH-gasoline range organics [TPH-GRO], nitrates, formaldehyde, n-Nitrosodimethylamine [NDMA], energetics, cyanide, terphenyls, glycols, and alcohols). Samples from a few locations were to be sampled for energetics or NDMA only, in addition to the primary analytes. Surface samples collected in Subarea 5D South were to be analyzed for primary analytes only.

2.2 Subsurface Sampling

Most of the subsurface soil sampling was performed by a California-licensed direct push technology (DPT) subcontractor under HGL oversight. The majority of the DPT borings in Subareas 5D North and 5D South were advanced to a targeted depth of between approximately 5 and 10 feet bgs. Tables 2-1 and 2-2 provide the actual depths achieved at each location.

Soil cores were collected using the Geoprobe® dual-tube sampling method, which consisted of a 2-inch outer steel drive casing and an inner 1-3/4-inch diameter acetate soil sampling sleeve. After the acetate liner was retracted from the core barrel, it was opened lengthwise with a cutting tool. The core was screened for radioactivity using Micro R (for gamma radiation) and Pancake (for alpha and beta radiation) probes, followed by screening with a photoionization detector (PID). Based on the instrument readings and/or visual evidence of possible contamination, the sample depths were determined. If no elevated radiation or PID readings were indicated, samples were collected from the acetate sleeve by the CDM sampler at the default depths of 4 to 5 feet bgs and 9 to 10 feet bgs.

Soil for volatile organic compounds (VOCs), 1,4-dioxane, and TPH-GRO analyses was collected from the acetate sleeve using EnCore® samplers. Subsurface soil for SVOC, PAH, and PCB/PCT analyses was removed from the acetate sleeve in a manner causing minimal soil disturbance and placed into 16-ounce glass jars. Soil for all other analyses was also placed into 16-ounce glass jars. Adhesive sample labels were completed with all sampling information and affixed to each sample jar, and then placed into plastic baggies. The EnCore® samplers were all placed into one of the bags in which they were received, and the sample label affixed to the outside of the bag. All jars and EnCore® samplers were placed in a cooler with double bagged ice.

Several subsurface locations (as indicated on Tables 2-1 and 2-2) were not accessible by the Geoprobe® rig and these borings were advanced using a hand auger. Each location was augered to the target depth of 5 feet bgs. Each foot of augered soil was retrieved to the surface, placed in plastic bags and screened using the Micro R, Pancake, and PID. All borings were sampled by CDM for chemical analyses at approximately 4 to 5 feet bgs, or in some cases at a shallower depth (see Tables 2-1 and 2-2). The EnCore® samplers were filled first from the soil placed in the plastic bag, and the jars were then filled from the remaining sample material using a decontaminated stainless steel trowel. This process was repeated at those locations where a deeper sample (i.e., target depth of 9 to 10 feet bgs) could also be collected.

Because sampling using a hand auger was not addressed in the WP/FSAP or in either of the FSAP Addendums for Subareas 5D North and 5C South, this sampling method constitutes a variance from the FSAP (see Section 2.7.1). However, sample collection from hand augered holes was revised effective August 2, 2011 and approved by DTSC, such that when conditions permitted, a six-inch

sleeve was collected using a slide hammer for the SVOC, PAH, and PCB/PCT analyses, and any EnCore® samples were collected from the bottom of the sleeve. Of the 26 locations hand-augered in Subarea 5D North, samples at eight locations (SL-170, -172 through -175, -179, -180, and -183) were collected directly from the plastic bag. This constitutes a variance from the FSAP (see Section 2.7.1). Samples from Subarea 5D South were collected using a slide hammer and/or EnCore® sampler as needed.

After all samples were collected from each boring and hand augered hole, the soil cuttings were used to backfill the hole and the hole was topped off with a bentonite chip seal. At locations in asphalt, asphalt patch material was applied on top of the bentonite.

2.3 Sample Handling

All soil samples collected by HGL for chemical analyses were relinquished by the field sampler to CDM's Field Team Leader (FTL). The FTL ensured that the sample labels were completed legibly and correctly. Any discrepancies were discussed with the field samplers and corrections to the sample labels were made as needed. All sample labels were covered with clear tape, the sleeves and jars placed back into their plastic baggie, and refrigerated.

All sampling information was recorded onto one or more chain-of-custody (CoC) forms. Each sampler reviewed the CoC and any discrepancies were corrected by the FTL. Each completed CoC was signed by the sampler and the FTL as the individual responsible for release of the samples to the courier. All samples were packed into coolers in accordance with Section 6.4 of the *Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM 2011a).

2.4 Field Quality Control Procedures

Quality control (QC) samples collected in the field included field duplicates, matrix spike (MS)/matrix spike duplicate (MSD) samples, equipment rinsate blanks, and field blanks. Trip blanks filled with laboratory analyte-free water were sent to the site from the laboratory and were submitted unopened with any samples to be analyzed for VOCs, 1,4-dioxane, and/or TPH-GRO.

2.4.1 Field Duplicates and MS/MSD Samples

Both the field duplicates and MS/MSD samples were collected at a frequency of approximately one per 20 parent soil samples collected. The field duplicate and MS/MSD samples were also collected from the same location. The duplicate samples were submitted to the laboratory as separate (and blind) from the parent samples. The MS/MSD samples are additional volume of the parent samples collected in triple volume for the DPT subsurface samples; a double volume of soil was sufficient for the surface and hand-augered MS/MSD samples.

For Subarea 5D North, a total of 11 duplicate/MS/MSD samples were collected in association with the surface/drainage samples and analyzed for the primary analytes and herbicides/pesticides; five of these samples were also analyzed for all secondary analytes. A total of 14 subsurface duplicate/MS/MSD samples were collected and analyzed for the primary analytes and VOCs/1,4-dioxane; five of these samples were also analyzed for all secondary analytes.

For Subarea 5D South, three duplicate/MS/MSD samples were collected in association with the surface samples and analyzed for primary analytes and pesticides and herbicides, and one subsurface duplicate/MS/MSD sample was collected and analyzed for primary analytes.

2.4.2 Equipment Rinsate Blank Samples

As stated in the WP/FSAP, equipment rinsate blanks were prepared and submitted for chemical analysis at a minimum frequency of approximately one per 20 parent soil samples collected for each sampling technique and whenever there were changes in the sample collection procedures, sampling decontamination procedures, or sampling equipment.

For Subarea 5D North, seven equipment blanks associated with surface soil samples were collected and analyzed for primary surface soil analytes, pesticides and herbicides; two of these equipment blanks were also analyzed for the secondary analytes. An eighth equipment blank was analyzed for secondary analytes only. Fourteen equipment blanks were collected in association with the subsurface soil samples and analyzed for primary analytes; seven of these blanks were also analyzed for secondary analytes. Two other equipment blanks were analyzed for secondary analytes only.

For Subarea 5D South, one equipment blank was collected in association with the surface soil samples and analyzed for primary analytes, herbicides and pesticides. Two equipment blanks were collected in association with the subsurface soil samples and analyzed for both primary and secondary analytes.

2.4.3 Field Blank Samples

Field blanks were to be collected once for each lot number of ASTM Type II water that HGL used for decontamination. No field blanks were collected during sampling in Subareas 5D North and 5D South. Samples for Subareas 5D North and 5D South are associated with the field blank collected on April 27, 2011 and have been validated accordingly.

2.4.4 Decontamination of Sampling Equipment

All drilling equipment was cleaned by HGL and their DPT subcontractor before and after completing each boring. This included the sampling device and drill rods. The external surfaces of the equipment were washed with potable water and Alconox, or equivalent laboratory-grade detergent. Equipment was scrubbed until all visible dirt, grime, grease, oil, loose paint, rust flakes, etc., was removed. The equipment was then rinsed with potable water.

Hand sampling equipment used to collect the surface and drainage samples, including shovels, hand trowels, and mixing bowls, were decontaminated as follows:

- Washed with a solution of potable water and Liquinox, or equivalent laboratory-grade detergent
- Rinsed thoroughly with potable water
- Given a final rinse with ASTM Type II water

If the sampling device was not used immediately after being decontaminated, it was wrapped in oil-free aluminum foil, or placed in a closed plastic, stainless steel, glass, or Teflon® container.

2.5 Analytical Laboratory Methods and Procedures

2.5.1 Analytical Methods

The analytical methods for the co-located chemical soil samples were divided into two suites of analyses. The primary suite performed on all samples includes:

- Metals using EPA Methods 6010B/6020, 7471A (mercury), and 7199 (chromium VI)
- Soil pH using EPA Method 9045M
- Fluoride using EPA Method 300.0
- SVOCs using EPA Method 8270C and PAHs using Method 8270C selective ion monitoring (SIM)
- PCBs and PCTs using EPA Method 8082
- Dioxins and furans using EPA Method 1613B
- Perchlorate using EPA Method 314.0 (and EPA Method 6850 for verification of non-detects at a rate of 10 percent of the samples submitted)

Surface soil samples only were also to be analyzed for:

- Pesticides using EPA Method 8081A
- Herbicides using EPA Method 8151A

Locations selected for sampling for the secondary suite of analyses were based on several factors including locations with a process history of the specific chemical usage, sample sites with elevated instrument readings, soil fill, waste, or visually contaminated materials. The secondary list of analyses includes:

- Nitrates using EPA Method 300.0
- Formaldehyde using EPA Method 8315A
- TPH-GRO/TPH-EFH/glycols using EPA Method 8015M
- NDMA using EPA Method 1625C
- Energetics using EPA Method 8330A
- Cyanide using EPA Method 9012B
- Alcohols and terphenyls using EPA Method 8015B

Through July 22, 2011, all shallow (i.e., target depth of 4 to 5 feet bgs) subsurface soil samples and any deeper subsurface soil samples at locations where both the primary and secondary suites were to be sampled, were also analyzed for:

- EPA Method 8260B for VOCs and
- EPA Method 8260B SIM for 1,4-dioxane

These analyses were also to be performed on samples collected from deeper target depths at locations that were originally proposed for primary analyses only, but that exhibited elevated instrument readings, soil fill, waste, or visually contaminated materials.

After July 22, 2011, shallow subsurface soil samples were to be analyzed for VOCs and 1,4-dioxane only at locations that exhibited at least one of the following:

- Field instruments indicated the presence of VOCs above background
- Staining or exhibiting organic odors
- Targeting a feature such as a sump or tank known or suspected to have contained VOCs
- RFI data indicate the potential for VOCs to be at the subsurface soil/bedrock interface
- RFI data indicate potential for VOCs to be harbored in clay soil

2.5.2 Analytical Method Modifications

The analytical laboratory used for the Subareas 5D North and 5D South co-located soil sampling effort was Lancaster Labortories, Inc., (LLI) of Lancaster, Pennsylvania. LLI was selected by competitive procurement (out of five laboratories that submitted proposals) based on their proposed method detection limits (MDLs). Selection of LLI as the co-located soil analytical laboratory was discussed with the community on October 10, 2010.

The analytical methods identified for the co-located soil sampling were selected to be consistent with the methods used for the RFI. These analytical methods are presented in the *Quality Assurance Project Plan, Santa Susana Field Laboratory RCRA Facility Investigation, Surficial Media Operable Unit* (MECx 2009) (RFI Quality Assurance Project Plan [QAPP]) and are listed in Table 2-3.

For Subareas 5D North and 5D South sampling, CDM also evaluated the RFI QAPP detection limits relative to risk-based soil criteria. There were several instances where risk-based soil values were lower than the RFI QAPP limits. To determine whether the analytical MDL could be lowered, method modifications were discussed with DTSC and LLI chemists at the time of implementation. The ability of the laboratory to achieve project reporting limits (RLs) and QC goals using these method modifications remains under evaluation by the project chemists. Table 2-3 also identifies methods that have been modified in an effort to lower respective MDLs and RLs.

Table 2-3 Analytical Methods and Method Modifications for Soil

Parameter Group	Analytical Method	Method Modified?
Volatile Organic Compounds	EPA 8260B	No
1,4-Dioxane	EPA 8260B SIM	No
Primary Analytes		
Select SVOCs	EPA 8270C SIM	No
SVOCs	EPA 8270C	No
Metals (including Mercury)	EPA 6010B/6020/7471A	No
Chromium VI	EPA 7199	No
Fluoride	EPA 300.0	No
Perchlorate[1]	EPA 6850	No
Perchlorate	EPA 314.0	No
PCBs/PCTs	EPA 8082	Yes
Pesticides	EPA 8081A	Yes
Herbicides	EPA 8151A	Yes
Dioxins/Furans	EPA 1613B	No
Secondary Analytes		
Alcohols	EPA 8015B	Yes
Terphenyls	EPA 8015B	Yes
Glycols	EPA 8015M	Yes
TPH (GRO and EFH)	EPA 8015M	Yes
Formaldehyde	EPA 8315A	Yes
n-Nitrosodimethylamine[2]	EPA 1625C	No
Energetics	EPA 8330A	Yes
Nitrate	EPA 300.0	No
Cyanide	EPA 9012B	No
pH	EPA 9045M	No

[1] Perchlorate by Method EPA 6850 was analyzed on 10 percent of samples analyzed by Method EPA 314.0

[2] n-Nitrosodimethylamine was analyzed by both Methods 8270C and 8270C SIM in addition to 1625C

The method modifications primarily involved increasing the prescribed sample volume (soil mass extracted) and concentrating the resulting extract to a smaller final volume, as follows:

- Method 8082 (PCBs and PCTs) – 60 grams of sample prepared and concentrated 5 fold to a final volume of 2 milliliters (mL)
- Method 8081A (Pesticides) – 60 grams of sample prepared and taken to a final volume of 4 mL (due to extract cleanup techniques)
- Method 8151A (Herbicides) – 60 grams of sample prepared and taken to a final volume of 2 mL
- Method 8330A (Energetics) – 5 grams of sample prepared in 10 mL of solvent
- Method 8315A (Formaldehyde) – 20 grams of sample used to prepare the leachate
- Method 8015M (TPH-EFH) – 60 grams of sample prepared and taken to a final volume of 1 mL
- Method 8015B (Alcohols) – 10 grams of sample prepared and taken to a final volume of 5 mL
- Method 8015M (Glycols) – 10 grams of sample prepared and taken to a final volume of 5 mL
- Method 8015B (Terphenyls) – 60 grams of sample prepared and extract concentrated to a final volume of 5 mL instead of 10 mL

For samples analyzed for glycols, an additional method modification was used. The normal method prescribes water extraction of the soils followed by concentration and then analysis by direct injection of the extract. The extraction procedure was altered by using acetone as the extraction solvent followed by concentration and then direct injection into the gas chromatograph. This modification was developed as a response to observed continuing calibration exceedences that could not be corrected using the standard procedure. These exceedances were due to the analytical column experiencing rapid degradation as a result of injecting water.

2.6 Data Review Processes

Analytical data produced by LLI were subject to multiple review steps to coincide with the start of distinct tasks. These steps were performed in a timely manner to ensure appropriate feedback and correction of errors. These steps included:

- Cross-reference check of sample CoC documents against the laboratory acknowledgement of sample receipt form. The laboratory acknowledgement of sample receipt was typically transmitted to the data manager via e-mail two to three days after sample receipt and login and includes a summary of the requested analyses to be performed per sample. Sample log-in errors were identified and corrected at this step.
- Tracking of sample collection, receipt, and laboratory sample delivery group (SDG) numbers on a sample tracking spreadsheet. This spreadsheet also includes field QC sample information, sample location coordinates, and required laboratory deliverables including reports, electronic data deliverables, raw data, and the status of validation.

Upon receipt of the laboratory report (delivered via e-mail), a preliminary review of the data was performed. This review consisted of:

- Reconciliation of the reported analyses against the analyses that were requested on the CoCs.
- Review of the laboratory case narratives. The case narrative identifies and explains quality issues encountered during the analysis of the samples. Quality issues may include (but are not limited to) missed holding times, poor spike recoveries in matrix or batch-specific QC samples, instrument calibration exceedences, and blank contamination. The laboratory consults with the project chemists on these issues and receives instruction on how to proceed before reporting the sample results.
- Review of the laboratory-specific QC data. These data are provided by the laboratory in summary form. Any unanticipated deviations from the project or method-specific criteria are reconciled with the laboratory at this stage.

2.7 Increased Field and Laboratory Quality Control Measures

Further evaluation of additional quality control items such as the frequency of equipment blank collection and evaluation of low level RLs were identified and implemented during the field sampling and laboratory analytical program. These additional measures of quality control were developed in order to address and monitor these items throughout the sampling program.

The frequency of collection for equipment blanks was changed from the original collection frequency of one per 20 parent soil samples to weekly for both surface/drainage and subsurface samples

regardless of the number of soil samples collected. This change was implemented during sampling in Subarea 5D North the week of June 20, 2011, and was initiated in order to align with the frequency of collection of equipment blanks performed under the RFI program.

In addition, collection of additional equipment blanks consisting of HGL's ASTM Type II water was initiated when review of equipment blank data indicated that NDMA was being detected in equipment blanks collected from other subareas (e.g., Subarea 5C) of Area IV. Three equipment blanks (consisting of HGL's American Society for Testing and Materials [ASTM] Type II water) were collected for NDMA only. The field team was instructed by the CDM project manager to begin collecting equipment blanks using HGL's ASTM type II water and submitting soil (i.e., baked sand prepared LLI) and water trip blanks (prepared by LLI) in an effort to determine a possible source of the NDMA other than onsite. Results of all NDMA equipment and trip blank analyses will be discussed in a separate report.

CDM further evaluated the modified RLs in conjunction witha request by DTSC chemists to verify that LLI was achieving the lower RL, LLI was requested in September 2011 to analyze additional soil QC samples spiked near the RL to verify their RLs and to evaluate precision and accuracy results. The QC samples consisted of MS and laboratory control samples (LCS) that were spiked at the MRL. LCSs consist of an aliquot of blank matrix (sand) to which known quantities of the method analyte and all preservation compounds are added. The LCS is prepared and analyzed in a similar manner as the sample. Results and evaluation of these additional QC samples is on-going.

2.8 Deviations from the WP/FSAP

During the field sampling and analytical programs, modifications from the procedures detailed in the WP/FSAP (CDM 2011a) were required. These deviations and associated resolutions were discussed with the FTL, the Project Manager, and in some cases with the DTSC representative prior to implementation. These deviations are described below.

2.8.1 Field Sampling

A total of 201 locations in Subarea 5D North (Table 2-1) were to be sampled at one or more depths. Subsurface samples were not collected at 15 locations due to shallow refusal at less than 2.5 feet (SL-063, -087, -108, -124, -126,-127, -134 through -138, -147, -148, -151, and -171). SL-090 was not sampled by HGL and thus was not sampled by CDM.

A total of 36 locations in Subarea 5D South (Table 2-2) were to be sampled at one or more depths. No subsurface samples were collected at SL-001, -004,-006 through -009, -014, -017, -020, -023 through -025, -027, and -035 due to shallow refusal at less than 2.5 feet bgs.

Subsurface sampling using a hand auger was not originally planned in the Master WP/FSAP or the FSAP Addendums for Subareas 5D North and 5D South. Twenty six locations in Subarea 5D North and nine locations in Subarea 5D South were hand augered as noted in Table 2-1 and Table 2-2, respectively. All locations hand augered in Subarea 5D South were sampled using a slide hammer for collection of soil submitted for SVOC, PAH, and PCB/PCT analyses. No samples were submitted for VOCs/1,4-dioxane or TPH-GRO from these Subarea 5D South locations.

Stainless steel sleeves were collected at all of the hand augered locations in Subarea 5D North (and any Encore Samplers collected from one end of the sleeve) with the exception of SL-175 and SL-179, which were sampled from a plastic bag. The process of hand augering soil and the subsequent

transfer of the sample material into a plastic baggie at these two locations has the potential for loss of VOCs and SVOCs.

Review of the data is ongoing to ascertain whether VOC and SVOC results should be qualified based on changes to the planned sampling procedure. The results of this review will be reported in a future revision of this document.

2.8.2 Analytical Methods

As noted in Section 2.5.2, some analytical methods have been modified for this project. All modifications were discussed with DTSC representatives prior to their implementation. Review of the analytical methods and sample results indicates that the objectives for the project were addressed for all non-modified analyses. All modified analyses are undergoing further studies evaluating the effect of the modifications on precision and accuracy. The reporting limit – laboratory control sample (RL-LCS) and reporting limit-matrix spike (RL-MS) QC samples analyzed by LLI are a prime part of these studies. An independent study evaluating the precision and accuracy of the modified herbicide method has been completed. Review of these herbicide results indicate that the method modifications did not achieve precision and accuracy goals at this lower reporting limit for some of the analytes. Data are currently under further review and it is likely that reporting limits may be elevated for some analytes.

Section 3

Area IV Subareas 5D North and 5D South Soil Sampling Results

Because this TM only provides a presentation of the analytical results, data in this section are presented in a summary fashion. Table 3-1 provides a summary of the Subarea 5D North surface and drainage soil data. The table details the chemicals analyzed, their associated frequency of detection, the minimum and maximum detected concentrations, the range of observed detection limits and RLs, and the sample location where the maximum concentration of each analyte was detected. Table 3-2 provides the same information for Subarea 5D North subsurface soil data. This table also indicates at what depth the maximum concentrations were observed. Table 3-3 provides a summary of the Subarea 5D North combined surface and subsurface datasets.

For Subarea 5D South, Table 3-4 provides a summary of the surface soil data, Table 3-5 provides a summary of the subsurface soil data, and Table 3-6 provides a summary of the combined surface and subsurface datasets.

When screening criteria are developed to assess the presence/absence of contamination (i.e., above/below the applicable criteria) the Subareas 5D North and 5D South data will be combined with RFI data to better define the nature and extent of surface soil contamination throughout Subareas 5D North and 5D South.

Appendix A provides tables for all validated data by analytical method and sample location. Data validation qualifier codes and their definitions are presented in these tables. Appendix B provides the summary analytical data reports as received from LLI. Appendix C presents the data usability and assessment report (DUAR), which details specific qualifications of sample results along with all validation reports. Appendix D is the master database of all sample results including the data validation "flags" (qualifiers).

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Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Fluoride	16984-48-8	300	160 / 184	1.1 J Z J Q J Q, Z	7.7 J Q	0.81 - 1.5	1 - 1.8	mg/kg	SL-012-SA5DN	0 - 0.5
Inorganic	Nitrate	14797-55-8	300	75 / 83	0.94 J Z	56.1	0.81 - 4.9	1.5 - 9.2	mg/kg	SL-192-SA5DN	0 - 0.5
Inorganic	Perchlorate	14797-73-0	314	1 / 184	52.6	52.6	9.1 - 16.6	30.4 - 55.5	ug/kg	SL-203-SA5DN	0 - 0.5
Inorganic	Perchlorate	14797-73-0	6850	3 / 27	3.3 J Z	3.7 J Z	2.1 - 3.2	5.1 - 5.9	ug/kg	SL-111-SA5DN	0 - 0.5
Inorganic	Mercury	7439-97-6	7471A	113 / 184	0.0034 J Z	53.8	0.0028 - 0.314	0.0965 - 10.9	mg/kg	SL-113-SA5DN	0 - 0.5
Inorganic	Cyanide	57-12-5	9012B	2 / 83	0.2 J Z	0.23 J Z	0.18 - 0.33	0.49 - 0.92	mg/kg	SL-192-SA5DN	0 - 0.5
Inorganic	pH	pH	9045M	184 / 184	6.14	8.84	0.01 - 0.01	0.01 - 0.01	pH unit	SL-010-SA5DN	0 - 0.5
Inorganic	Chromium VI	18540-29-9	7199	141 / 184	0.23 J Z	3.3	0.2 - 0.37	1 - 1.8	mg/kg	SL-081-SA5DN	0 - 0.5
Inorganic	Percent Moisture	MOIST	160.3M	183 / 183	1.2	45.9	0.5 - 0.5	0.5 - 0.5	%	SL-042-SA5DN	0 - 0.5
Inorganic	Antimony	7440-36-0	6020	168 / 184	0.0646 J Q, Z	41.4 J Q	0.0581 - 0.109	0.194 - 0.362	mg/kg	SL-194-SA5DN	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	184 / 184	1.72 J Q	43.7 J E, A	0.0775 - 0.145	0.388 - 0.725	mg/kg	SL-134-SA5DN	0 - 0.5
Inorganic	Barium	7440-39-3	6020	184 / 184	67.2 J A	263 J E, A	0.106 - 0.489	0.392 - 1.81	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Beryllium	7440-41-7	6020	184 / 184	0.143 J Q	1.75	0.0155 - 0.029	0.0969 - 0.181	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Cadmium	7440-43-9	6020	184 / 184	0.0683 J Z	2.89 J Q, E	0.0388 - 0.0725	0.0969 - 0.181	mg/kg	SL-129-SA5DN	0 - 0.5
Inorganic	Chromium	7440-47-3	6020	184 / 184	13 J Q, A	81.1 J E	0.116 - 0.217	0.388 - 0.725	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Cobalt	7440-48-4	6020	184 / 184	4.31	56.5 J E, Q, A	0.0194 - 0.0362	0.0969 - 0.181	mg/kg	SL-045-SA5DN	0 - 0.5
Inorganic	Copper	7440-50-8	6020	184 / 184	6.62	107 J Q, A	0.0639 - 0.12	0.388 - 0.725	mg/kg	SL-090-SA5DN	0 - 0.5
Inorganic	Lead	7439-92-1	6020	184 / 184	3.17 J Q, E, A	122 J Q, E, A	0.0101 - 0.0317	0.194 - 0.609	mg/kg	SL-194-SA5DN	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	184 / 184	0.144	8.06	0.0484 - 0.0906	0.0969 - 0.181	mg/kg	SL-184-SA5DN	0 - 0.5
Inorganic	Nickel	7440-02-0	6020	184 / 184	8.89 J Q	57.3 J E, Q, A	0.0969 - 0.181	0.388 - 0.725	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Selenium	7782-49-2	6020	183 / 184	0.0474 J Z	1.08	0.0388 - 0.0725	0.388 - 0.725	mg/kg	SL-013-SA5DN	0 - 0.5
Inorganic	Silver	7440-22-4	6020	182 / 184	0.0203 J Z	2.6	0.0116 - 0.0217	0.0969 - 0.181	mg/kg	SL-195-SA5DN	0 - 0.5
Inorganic	Thallium	7440-28-0	6020	184 / 184	0.17	0.807 J Q	0.0291 - 0.0538	0.0969 - 0.179	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Vanadium	7440-62-2	6020	184 / 184	24.3 J A	152 J E	0.0213 - 0.0399	0.0969 - 0.181	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Zinc	7440-66-6	6020	184 / 184	42.7	370 J A	0.543 - 1.68	2.91 - 9.01	mg/kg	SL-090-SA5DN	0 - 0.5
Inorganic	Aluminum	7429-90-5	6010B	184 / 184	10100	47700	4.92 - 28.5	19.6 - 113	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Boron	7440-42-8	6010B	137 / 184	1.34 J Z	27.5	0.352 - 5.04	4.89 - 28.3	mg/kg	SL-129-SA5DN	0 - 0.5
Inorganic	Calcium	7440-70-2	6010B	183 / 184	2690	49000 J E	2.48 - 11.2	19.6 - 36.6	mg/kg	SL-023-SA5DN	0 - 0.5
Inorganic	Iron	7439-89-6	6010B	183 / 184	12800	99800	2.98 - 43.1	19.6 - 183	mg/kg	SL-064-SA5DN	0 - 0.5
Inorganic	Lithium	7439-93-2	6010B	184 / 184	8.3	48.2	0.22 - 0.71	2 - 3.7	mg/kg	SL-152-SA5DN	0 - 0.5
Inorganic	Magnesium	7439-95-4	6010B	183 / 184	2200	10500	0.437 - 4.65	9.78 - 18.3	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Manganese	7439-96-5	6010B	184 / 184	174	1590 J E	0.0411 - 0.412	0.489 - 2.64	mg/kg	SL-105-SA5DN	0 - 0.5
Inorganic	Phosphorus	7723-14-0	6010B	184 / 184	196 J Q	923	0.4 - 3.17	9.78 - 56.6	mg/kg	SL-151-SA5DN	0 - 0.5
Inorganic	Potassium	9-7-7440	6010B	184 / 184	1760	8590	11.2 - 102	48.9 - 283	mg/kg	SL-197-SA5DN	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	184 / 184	56.5 J Z	363	5.9 - 68.3	97.8 - 183	mg/kg	SL-035-SA5DN	0 - 0.5
Inorganic	Strontium	7440-24-6	6010B	184 / 184	14.1	77.1 J E	0.0286 - 0.113	0.489 - 0.915	mg/kg	SL-190-SA5DN	0 - 0.5
Inorganic	Tin	7440-31-5	6010B	1 / 184	13.5	13.5	0.316 - 1.83	9.88 - 18.3	mg/kg	SL-140-SA5DN	0 - 0.5
Inorganic	Titanium	7440-32-6	6010B	183 / 184	554	2030	0.0701 - 2.25	0.988 - 5.91	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Zirconium	7440-67-7	6010B	177 / 184	0.906 J Z	8.35	0.456 - 1.54	4.89 - 9.15	mg/kg	SL-162-SA5DN	0 - 0.5
Misc. Organics	2-Propanol	67-63-0	8015B	2 / 83	150 J Z	150 J Z	100 - 180	510 - 920	ug/kg	SL-066-SA5DN SL-140-SA5DN	0 - 0.5 0 - 0.5
Misc. Organics	Ethanol	64-17-5	8015B	0 / 83	-	-	100 - 180	510 - 920	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	1 / 83	130 J Z	130 J Z	100 - 180	510 - 920	ug/kg	SL-140-SA5DN	0 - 0.5
Misc. Organics	m-Terphenyl	92-06-8	8015B	1 / 83	5.3 J S	5.3 J S	1.5 - 17	3.5 - 39	mg/kg	SL-016-SA5DN	0 - 0.5
Misc. Organics	o-Terphenyl	84-15-1	8015B	1 / 83	1.9 J S, Z	1.9 J S, Z	1.5 - 17	3.5 - 39	mg/kg	SL-016-SA5DN	0 - 0.5
Misc. Organics	p-Terphenyl	92-94-4	8015B	4 / 83	2.2 J Q, E, Z	28 J Z	1.5 - 17	3.5 - 39	mg/kg	SL-121-SA5DN	0 - 0.5
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 83	-	-	5.1 - 9.2	10 - 18	mg/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	0 / 83	-	-	5.1 - 9.2	10 - 18	mg/kg		-
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 83	-	-	5.1 - 9.2	10 - 18	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	11 / 83	1000 J Z	3500	610 - 2600	1500 - 6400	ug/kg	SL-140-SA5DN	0 - 0.5
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 92	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 92	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 92	-	-	76 - 140	230 - 430	ug/kg		-
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 92	-	-	38 - 72	110 - 220	ug/kg		-

Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 92	-	-	76 - 140	230 - 430	ug/kg		-
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 92	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 92	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 92	-	-	76 - 140	110 - 220	ug/kg		-
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 92	-	-	94 - 180	110 - 220	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 92	-	-	57 - 110	110 - 220	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 92	-	-	76 - 140	110 - 220	ug/kg		-
Misc. Organics	HMX	2691-41-0	8330A	0 / 92	-	-	94 - 180	280 - 540	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	6 / 92	43 J Z	58 J Z	38 - 72	110 - 220	ug/kg	SL-097-SA5DN	0 - 0.5
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 92	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 92	-	-	760 - 1400	2300 - 4300	ug/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 92	-	-	760 - 1400	2300 - 4300	ug/kg		-
Misc. Organics	RDX	121-82-4	8330A	3 / 92	68 J Z	140	47 - 150	110 - 220	ug/kg	SL-084-SA5DN	0 - 0.5
Misc. Organics	Tetryl	479-45-8	8330A	0 / 92	-	-	58 - 110	110 - 220	ug/kg		-
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 184	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 184	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 184	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 184	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	0 / 184	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	30 / 184	0.74 J Z	1300	0.33 - 190	1.7 - 970	ug/kg	SL-007-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	143 / 184	0.45 J Z	300 J C	0.39 - 220	1.7 - 970	ug/kg	SL-207-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	1 / 184	4.4	4.4	0.33 - 190	1.7 - 970	ug/kg	SL-045-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 184	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 184	-	-	1 - 570	3.3 - 1900	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	1 / 184	15	15	1 - 570	3.3 - 1900	ug/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	107 / 184	1.3 J Z, C J Z J L, Z	43	1 - 570	3.3 - 1900	ug/kg	SL-055-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	184 / 184	1.24 J Z	10500 J #	0.0236 - 0.85	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	174 / 184	0.511 J Z	642	0.00781 - 0.191	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	86 / 184	0.351 J Z	48.1	0.0181 - 0.23	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	152 / 184	0.0618 J Z	59	0.0164 - 0.43	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	155 / 184	0.149 J Z	25.9	0.0131 - 0.21	4.95 - 9.18	ng/kg	SL-207-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	179 / 184	0.225 J Z	222	0.0175 - 0.45	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	131 / 184	0.11 J Z	13.3	0.0119 - 0.186	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	178 / 184	0.187 J Z	136	0.0166 - 0.429	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	129 / 184	0.296 J Z	5.05 J Z	0.0142 - 0.184	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	132 / 184	0.048 J Z	31.4	0.0153 - 0.22	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	150 / 184	0.13 J Z	39.5	0.00966 - 0.155	4.95 - 9.18	ng/kg	SL-007-SA5DN	0 - 0.5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	121 / 184	0.16 J Z	17.9	0.0133 - 0.169	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	127 / 184	0.3 J Z	18.7	0.0101 - 0.143	4.95 - 9.18	ng/kg	SL-007-SA5DN	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	79 / 184	0.0193 J Z	3.55	0.0084 - 0.161	0.99 - 1.84	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	149 / 184	0.0465 J Z	10.9	0.019 - 0.327	0.99 - 1.84	ng/kg	SL-007-SA5DN	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	184 / 184	9.88 J Z	180000 J #	0.0233 - 1.32	9.9 - 18.4	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	172 / 184	1.33 J Z	2350	0.0166 - 0.236	9.9 - 18.4	ng/kg	SL-090-SA5DN	0 - 0.5
Pesticides	4,4'-DDD	72-54-8	8081A	9 / 183	0.076 J Z	1.5 J S	0.067 - 2.7	0.34 - 3.7	ug/kg	SL-105-SA5DN	0 - 0.5
Pesticides	4,4'-DDE	72-55-9	8081A	104 / 183	0.093 J S, Z	77	0.067 - 4.9	0.34 - 18	ug/kg	SL-123-SA5DN	0 - 0.5
Pesticides	4,4'-DDT	50-29-3	8081A	147 / 183	0.1 J S, Z	63	0.067 - 5.5	0.34 - 9.1	ug/kg	SL-207-SA5DN	0 - 0.5
Pesticides	Aldrin	309-00-2	8081A	1 / 183	0.11 J S, Z	0.11 J S, Z	0.067 - 0.18	0.17 - 0.45	ug/kg	SL-180-SA5DN	0 - 0.5
Pesticides	Alpha-BHC	319-84-6	8081A	2 / 183	0.04 J FD, Z	0.045 J S, Z	0.034 - 0.091	0.17 - 0.45	ug/kg	SL-098-SA5DN	0 - 0.5
Pesticides	Beta-BHC	319-85-7	8081A	19 / 183	0.1 J Z	2.7	0.061 - 0.32	0.17 - 0.87	ug/kg	SL-133-SA5DN	0 - 0.5
Pesticides	Chlordane	57-74-9	8081A	114 / 183	0.95 J S, Z	15	0.27 - 28	3.4 - 38	ug/kg	SL-024-SA5DN	0 - 0.5
Pesticides	Delta-BHC	319-86-8	8081A	25 / 183	0.042 J Z, C, #	1.2	0.036 - 0.48	0.17 - 0.48	ug/kg	SL-196-SA5DN	0 - 0.5
Pesticides	Dieldrin	60-57-1	8081A	36 / 183	0.1 J Z	11	0.067 - 18	0.34 - 18	ug/kg	SL-180-SA5DN	0 - 0.5
Pesticides	Endosulfan I	959-98-8	8081A	4 / 183	0.064 J Z, C	0.33	0.044 - 0.47	0.17 - 1.8	ug/kg	SL-005-SA5DN	0 - 0.5
Pesticides	Endosulfan II	33213-65-9	8081A	10 / 183	0.074 J Z	1.3 J S	0.067 - 1.8	0.34 - 3.7	ug/kg	SL-049-SA5DN	0 - 0.5

Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	1 / 183	0.27 J Z	0.27 J Z	0.067 - 1.4	0.34 - 7.3	ug/kg	SL-092-SA5DN	0 - 0.5
Pesticides	Endrin	72-20-8	8081A	2 / 183	0.099 J S, L, Z	0.12 J Z	0.067 - 8.2	0.34 - 8.2	ug/kg	SL-005-SA5DN	0 - 0.5
Pesticides	Endrin Aldehyde	7421-93-4	8081A	18 / 183	0.081 J S, Z	21 J #	0.067 - 2.1	0.34 - 9.1	ug/kg	SL-207-SA5DN	0 - 0.5
Pesticides	Endrin Ketone	53494-70-5	8081A	11 / 183	0.084 J Z J Z, C	0.37 J S, Z	0.067 - 1.4	0.34 - 7.3	ug/kg	SL-045-SA5DN	0 - 0.5
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	16 / 183	0.041 J S, Z	0.15 J Z	0.034 - 0.096	0.17 - 0.45	ug/kg	SL-203-SA5DN	0 - 0.5
Pesticides	Heptachlor	76-44-8	8081A	8 / 183	0.1 J S, Z J FD, Z	0.31	0.061 - 0.31	0.17 - 0.86	ug/kg	SL-090-SA5DN	0 - 0.5
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	19 / 183	0.035 J S, Z	0.33	0.034 - 4.3	0.17 - 4.3	ug/kg	SL-203-SA5DN	0 - 0.5
Pesticides	Methoxychlor	72-43-5	8081A	1 / 183	0.49 J L, Z	0.49 J L, Z	0.34 - 7.3	1.7 - 35	ug/kg	SL-107-SA5DN	0 - 0.5
Pesticides	Mirex	2385-85-5	8081A	22 / 183	0.074 J Z, C, #	2.2 J S	0.067 - 5.7	0.34 - 7.3	ug/kg	SL-183-SA5DN	0 - 0.5
Pesticides	Toxaphene	8001-35-2	8081A	1 / 183	4.3 J Z	4.3 J Z	2.2 - 19	6.7 - 36	ug/kg	SL-090-SA5DN	0 - 0.5
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	0 / 183	-	-	4.4 - 8.1	9.1 - 17	ug/kg		-
Pesticides	2,4 DB	94-82-6	8151A	15 / 183	1.2 J Z	110	0.63 - 29	1.7 - 29	ug/kg	SL-192-SA5DN	0 - 0.5
Pesticides	2,4,5-T	93-76-5	8151A	5 / 183	0.1 J Z	0.4	0.083 - 0.32	0.17 - 0.32	ug/kg	SL-034-SA5DN	0 - 0.5
Pesticides	2,4,5-TP	93-72-1	8151A	42 / 183	0.08 J Z	0.44	0.076 - 0.82	0.17 - 1.9	ug/kg	SL-064-SA5DN	0 - 0.5
Pesticides	2,4-D	94-75-7	8151A	7 / 183	1.7 J Z	2.4 J Z	1.2 - 7.9	3.6 - 7.9	ug/kg	SL-040-SA5DN	0 - 0.5
Pesticides	Dicamba	1918-00-9	8151A	6 / 183	0.46 J Z, #	0.72 J Z	0.4 - 0.74	1.2 - 2.2	ug/kg	SL-065-SA5DN	0 - 0.5
Pesticides	Dichlorprop	120-36-5	8151A	11 / 183	0.87 J Z	2.9	0.81 - 2.8	1.7 - 3.1	ug/kg	SL-131-SA5DN	0 - 0.5
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	0 / 183	-	-	0.81 - 7	2.4 - 7	ug/kg		-
Pesticides	MCPA	94-74-6	8151A	84 / 183	97 J Z	2400 J S	77 - 1300	250 - 1300	ug/kg	SL-066-SA5DN	0 - 0.5
Pesticides	MCPP	93-65-2	8151A	9 / 183	88 J Z	350 J S	76 - 830	250 - 2800	ug/kg	SL-066-SA5DN SL-074-SA5DN	0 - 0.5 0 - 0.5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	30 / 85	18.4 J Z	1040	16.7 - 308	33.4 - 616	ng/kg	SL-140-SA5DN	0 - 0.5
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	1 / 1	26 J Z	26 J Z	17 - 17	170 - 170	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 184	-	-	330 - 1700	1000 - 5100	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	1 / 1	31 J Z	31 J Z	17 - 17	170 - 170	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 184	-	-	100 - 510	330 - 1700	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 183	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 184	-	-	170 - 840	500 - 2500	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 184	-	-	67 - 340	170 - 840	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 184	-	-	33 - 170	170 - 840	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 184	-	-	67 - 340	170 - 840	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 184	-	-	170 - 840	500 - 2500	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C	4 / 5	21 J Z	370	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Acenaphthylene	208-96-8	8270C	1 / 1	45 J Z	45 J Z	19 - 19	190 - 190	ug/kg	SL-197-SA5DN	0 - 0.5

Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Aniline	62-53-3	8270C	0 / 184	-	-	170 - 840	500 - 2500	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C	8 / 8	36 J Z	590	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Benzidine	92-87-5	8270C	0 / 184	-	-	1200 - 5900	3300 - 17000	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	23 / 23	18 J L, Z	2900	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	25 / 25	22 J Z	3100	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	25 / 25	19 J Z	3400	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	26 / 26	19 J Z	2200	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	15 / 15	21 J Z	1600	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 184	-	-	170 - 840	500 - 2500	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 184	-	-	170 - 840	500 - 2500	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	107 / 136	18 J L, Z J Z	1200	17 - 84	340 - 1700	ug/kg	SL-197-SA5DN	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	9 / 80	19 J Z	740	17 - 31	170 - 310	ug/kg	SL-056-SA5DN	0 - 0.5
Semivolatiles	Carbazole	86-74-8	8270C	10 / 184	20 J Z	360	17 - 84	170 - 840	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C	34 / 34	19 J L, Z	3000	17 - 31	170 - 310	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	10 / 10	22 J Z	590	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	1 / 184	150 J Z	150 J Z	17 - 84	170 - 840	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Diethylphthalate	84-66-2	8270C	0 / 77	-	-	17 - 31	170 - 310	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C	1 / 78	42 J Z	42 J Z	17 - 31	170 - 310	ug/kg	SL-067-SA5DN	0 - 0.5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	6 / 77	19 J Z	680	17 - 31	170 - 310	ug/kg	SL-049-SA5DN	0 - 0.5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	2 / 75	25 J Z	230	17 - 31	170 - 310	ug/kg	SL-188-SA5DN	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C	30 / 30	19 J Z	3100	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C	2 / 2	21 J Z	260	17 - 19	170 - 190	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 184	-	-	67 - 340	170 - 840	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 184	-	-	170 - 840	500 - 2500	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	18 / 18	22 J Z	1900	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C	1 / 1	37 J Z	37 J Z	17 - 17	170 - 170	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 184	-	-	170 - 840	500 - 2500	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	16 / 16	21 J Z	2900	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	0 / 184	-	-	17 - 84	170 - 840	ug/kg		-
Semivolatiles	Pyrene	129-00-0	8270C	33 / 33	18 J L, Z	2900	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	22 / 183	0.73 J Z	5.6 J Z	0.66 - 19	1.7 - 48	ug/kg	SL-004-SA5DN	0 - 0.5
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	32 / 183	0.7 J Z	7.3 J Z	0.66 - 19	1.7 - 48	ug/kg	SL-004-SA5DN	0 - 0.5
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	18 / 180	0.74 J Z	36	0.66 - 19	1.7 - 48	ug/kg	SL-105-SA5DN	0 - 0.5
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	17 / 183	0.35 J Z	12	0.33 - 9.6	1.7 - 48	ug/kg	SL-133-SA5DN	0 - 0.5
Semivolatiles	Anthracene	120-12-7	8270C SIM	70 / 176	0.37 J Z	270	0.33 - 9.6	1.7 - 48	ug/kg	SL-012-SA5DN	0 - 0.5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	104 / 161	0.75 J Z	590	0.66 - 19	1.7 - 48	ug/kg	SL-098-SA5DN	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	118 / 159	0.76 J Z	480	0.66 - 19	1.7 - 48	ug/kg	SL-098-SA5DN	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	142 / 159	0.79 J Z	770	0.66 - 19	1.7 - 48	ug/kg	SL-098-SA5DN	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	109 / 158	0.77 J Z	170	0.66 - 19	1.7 - 48	ug/kg	SL-129-SA5DN	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	116 / 169	0.73 J Z	330	0.66 - 19	1.7 - 48	ug/kg	SL-098-SA5DN	0 - 0.5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	40 / 52	7.7 J Z	700	6 - 130	18 - 380	ug/kg	SL-143-SA5DN	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	14 / 109	6.9 J Z	36 J Z	6 - 36	18 - 110	ug/kg	SL-033-SA5DN	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C SIM	140 / 151	0.4 J Z	540	0.33 - 9.6	1.7 - 48	ug/kg	SL-098-SA5DN	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	60 / 174	0.76 J Z	58	0.66 - 19	1.7 - 48	ug/kg	SL-129-SA5DN	0 - 0.5
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	2 / 111	7.1 J Z	9.6 J Z	6 - 36	18 - 110	ug/kg	SL-029-SA5DN	0 - 0.5
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	1 / 110	14 J Q, E, Z	14 J Q, E, Z	6 - 36	18 - 110	ug/kg	SL-072-SA5DN	0 - 0.5

Table 3-1
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	15 / 111	6.7 J Z	71 J Z	6 - 36	18 - 110	ug/kg	SL-036-SA5DN	0 - 0.5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	14 / 113	7.8 J Z	51 J Z	6 - 39	18 - 120	ug/kg	SL-009-SA5DN	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	128 / 154	0.78 J Z	1200	0.66 - 19	1.7 - 48	ug/kg	SL-012-SA5DN	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C SIM	30 / 182	0.75 J Z	47	0.66 - 19	1.7 - 48	ug/kg	SL-012-SA5DN	0 - 0.5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	93 / 166	0.82 J FD, Z	180	0.66 - 19	1.7 - 48	ug/kg	SL-129-SA5DN	0 - 0.5
Semivolatiles	Naphthalene	91-20-3	8270C SIM	55 / 183	0.71 J Z	6.7 J Z	0.66 - 19	1.7 - 48	ug/kg	SL-197-SA5DN	0 - 0.5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 184	-	-	0.66 - 19	1.7 - 48	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	115 / 168	0.82 J Z	910	0.66 - 19	1.7 - 48	ug/kg	SL-012-SA5DN	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C SIM	128 / 152	0.77 J Z	1100	0.66 - 19	1.7 - 48	ug/kg	SL-012-SA5DN	0 - 0.5
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	1 / 83	0.98 J Z	0.98 J Z	0.42 - 22	1.3 - 66	mg/kg	SL-191-SA5DN	0 - 0.5
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	68 / 83	1.4 J Z	33 J Z	0.42 - 22	1.3 - 66	mg/kg	SL-051-SA5DN	0 - 0.5
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	83 / 83	4.5	390	0.42 - 22	1.3 - 66	mg/kg	SL-051-SA5DN	0 - 0.5
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	82 / 83	20	1200	0.42 - 22	1.3 - 66	mg/kg	SL-051-SA5DN	0 - 0.5
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	2 / 83	0.63 J Z	1.9 J Z	0.42 - 22	1.3 - 66	mg/kg	SL-197-SA5DN	0 - 0.5

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Percent Moisture	MOIST	160.3M	314 / 314	3.6	17.9	0.5 - 0.5	0.5 - 0.5	%	SL-037-SA5DN	4 - 5
Inorganic	Fluoride	16984-48-8	300.0	311 / 313	1.6 J Q	29.6 J Q	0.82 - 0.98	1 - 1.2	mg/kg	SL-079-SA5DN	4 - 5
Inorganic	Nitrate	14797-55-8	300.0	122 / 126	0.96 J Q, Z	19.7	0.82 - 0.97	1.5 - 1.8	mg/kg	SL-192-SA5DN SL-192-SA5DN	4 - 5 9 10
Inorganic	Perchlorate	14797-73-0	314.0	0 / 313	-	-	9.3 - 11	31.1 - 36.5	ug/kg		-
Inorganic	Perchlorate	14797-73-0	6850	6 / 46	2.4 J Z	4.8 J Z	2.3 - 6	5.5 - 6	ug/kg	SL-191-SA5DN	4 - 5
Inorganic	Chromium VI	18540-29-9	7199	197 / 313	0.24 J Z	11.8	0.2 - 0.24	1 - 1.2	mg/kg	SL-188-SA5DN	9 - 10
Inorganic	Mercury	7439-97-6	7471A	115 / 313	0.0035 J Z	1.68	0.0029 - 0.037	0.0979 - 0.525	mg/kg	SL-103-SA5DN	4 - 5
Inorganic	Cyanide	57-12-5	9012B	0 / 126	-	-	0.18 - 1	0.51 - 2.8	mg/kg		-
Inorganic	pH	pH	9045M	313 / 313	6.18	10.7	0.01 - 0.01	0.01 - 0.01	pH unit	SL-165-SA5DN	9 - 10
Inorganic	Aluminum	7429-90-5	6010B	313 / 313	2970 J E	44900	5.17 - 7.3	19.8 - 24.1	mg/kg	SL-197-SA5DN	9 - 10
Inorganic	Boron	7440-42-8	6010B	222 / 313	1 J Z	25.6	0.356 - 4.76	4.94 - 28.1	mg/kg	SL-005-SA5DN	4 - 5
Inorganic	Calcium	7440-70-2	6010B	313 / 313	2500	122000 J E	2.47 - 33.7	19.8 - 118	mg/kg	SL-180-SA5DN	4 - 5
Inorganic	Iron	7439-89-6	6010B	313 / 313	4320	42300	2.58 - 27.6	19.8 - 121	mg/kg	SL-202-SA5DN	4 - 5
Inorganic	Lithium	7439-93-2	6010B	313 / 313	1.3 J Z	64.8	0.23 - 0.75	2 - 2.4	mg/kg	SL-153-SA5DN	7 - 8
Inorganic	Magnesium	7439-95-4	6010B	313 / 313	893	10300	0.435 - 3.03	9.88 - 12.1	mg/kg	SL-017-SA5DN	7 - 8
Inorganic	Manganese	7439-96-5	6010B	313 / 313	126 J E	1370 J FD, E	0.0356 - 0.173	0.494 - 1.11	mg/kg	SL-014-SA5DN	4 - 5
Inorganic	Phosphorus	7723-14-0	6010B	313 / 313	76.8 J Q	1570 J Q	0.346 - 0.668	9.88 - 12.1	mg/kg	SL-012-SA5DN	4 - 5
Inorganic	Potassium	7440-09-7	6010B	313 / 313	459 J Q	6100	11.2 - 21.5	49.4 - 60.3	mg/kg	SL-200-SA5DN	4 - 5
Inorganic	Sodium	7440-23-5	6010B	312 / 313	78.2 J Z	990	5.88 - 44.5	98.8 - 121	mg/kg	SL-066-SA5DN	9 - 10
Inorganic	Strontium	7440-24-6	6010B	313 / 313	17	147 J E	0.0247 - 0.074	0.494 - 0.603	mg/kg	SL-180-SA5DN	4 - 5
Inorganic	Tin	7440-31-5	6010B	0 / 313	-	-	0.316 - 1.19	9.88 - 12.1	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	313 / 313	189	1830	0.0701 - 0.453	0.988 - 5.61	mg/kg	SL-144-SA5DN	2 - 3
Inorganic	Zirconium	7440-67-7	6010B	302 / 313	0.997 J Z	9.49	0.454 - 1	4.94 - 6.03	mg/kg	SL-200-SA5DN	9 - 10
Inorganic	Antimony	7440-36-0	6020	212 / 313	0.0743 J Q, Z	1.39 J Q	0.0629 - 0.0893	0.203 - 0.241	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Arsenic	7440-38-2	6020	313 / 313	0.944 J Q	63	0.0814 - 0.0965	0.407 - 0.483	mg/kg	SL-129-SA5DN	2.5 - 3.5
Inorganic	Barium	7440-39-3	6020	313 / 313	21	715 J E, A	0.108 - 0.63	0.407 - 2.38	mg/kg	SL-066-SA5DN	9 - 10
Inorganic	Beryllium	7440-41-7	6020	312 / 313	0.143 J Q	1.82 J Q	0.0163 - 0.0455	0.102 - 0.285	mg/kg	SL-051-SA5DN	4 - 5
Inorganic	Cadmium	7440-43-9	6020	311 / 313	0.0535 J Q, Z	1.26 J Q, E	0.0419 - 0.0531	0.102 - 0.121	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Chromium	7440-47-3	6020	313 / 313	12.4 J Q	80 J E	0.122 - 0.145	0.407 - 0.483	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Cobalt	7440-48-4	6020	313 / 313	1.99	29 J E, Q	0.0203 - 0.0241	0.102 - 0.121	mg/kg	SL-024-SA5DN	19 - 20
Inorganic	Copper	7440-50-8	6020	313 / 313	2.61 J Q	121 J E, Q	0.0692 - 0.0965	0.407 - 0.483	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Lead	7439-92-1	6020	313 / 313	1.54 J Q	47.6 J E, A	0.0104 - 0.0123	0.203 - 0.241	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Molybdenum	7439-98-7	6020	313 / 313	0.103 J Z	5.9 J E, Q	0.0509 - 0.0603	0.102 - 0.121	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Nickel	7440-02-0	6020	313 / 313	6.64 J Q	60 J E, Q, A	0.102 - 0.121	0.407 - 0.483	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Selenium	7782-49-2	6020	238 / 313	0.0455 J Z	0.424 J Z	0.0419 - 0.07	0.407 - 0.483	mg/kg	SL-152-SA5DN	2.5 - 3.5
Inorganic	Silver	7440-22-4	6020	307 / 313	0.0162 J Z	0.552	0.0126 - 0.0171	0.102 - 0.121	mg/kg	SL-146-SA5DN	2 - 3
Inorganic	Thallium	7440-28-0	6020	312 / 313	0.0642 J Z	0.605 J Q, E	0.0305 - 0.0362	0.102 - 0.121	mg/kg	SL-095-SA5DN	4 - 5
Inorganic	Vanadium	7440-62-2	6020	313 / 313	12.9	124 J E, A	0.0224 - 0.0265	0.102 - 0.121	mg/kg	SL-205-SA5DN	9 - 10
Inorganic	Zinc	7440-66-6	6020	313 / 313	10.1 J Q, A	153 J E	0.57 - 0.676	3.05 - 3.62	mg/kg	SL-098-SA5DN	4 - 5
Misc. Organics	2-Propanol	67-63-0	8015B	0 / 126	-	-	100 - 120	520 - 610	ug/kg		-
Misc. Organics	Ethanol	64-17-5	8015B	0 / 126	-	-	100 - 120	520 - 610	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	5 / 126	210 J Z	630	100 - 120	520 - 610	ug/kg	SL-004-SA5DN	3.5 - 4.5
Misc. Organics	m-Terphenyl	92-06-8	8015B	0 / 126	-	-	1.6 - 1.8	3.6 - 4.3	mg/kg		-
Misc. Organics	o-Terphenyl	84-15-1	8015B	0 / 126	-	-	1.6 - 1.8	3.6 - 4.3	mg/kg		-
Misc. Organics	p-Terphenyl	92-94-4	8015B	0 / 126	-	-	1.6 - 1.8	3.6 - 4.3	mg/kg		-
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 126	-	-	5.2 - 7.6	10 - 12	mg/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	1 / 126	7 J Z	7 J Z	5.2 - 6.1	10 - 12	mg/kg	SL-197-SA5DN	4 - 5
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 126	-	-	5.2 - 6.1	10 - 12	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	2 / 126	660 J Z	6600	620 - 720	1600 - 1800	ug/kg	SL-003-SA5DN	0.5 - 1.5
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 144	-	-	39 - 48	120 - 150	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 144	-	-	39 - 48	120 - 150	ug/kg		-
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 144	-	-	78 - 220	230 - 670	ug/kg		-
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 144	-	-	39 - 48	120 - 150	ug/kg		-
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 144	-	-	78 - 97	230 - 290	ug/kg		-

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 144	-	-	39 - 48	120 - 150	ug/kg		-
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 144	-	-	39 - 48	120 - 150	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 144	-	-	78 - 97	120 - 150	ug/kg		-
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 144	-	-	97 - 120	120 - 150	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 144	-	-	58 - 73	120 - 150	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 144	-	-	78 - 97	120 - 150	ug/kg		-
Misc. Organics	HMX	2691-41-0	8330A	0 / 144	-	-	97 - 120	290 - 360	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	3 / 144	47 J Z	78 J Z	39 - 48	120 - 150	ug/kg	SL-018-SA5DN	7.5 - 8.5
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 144	-	-	39 - 48	120 - 150	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 144	-	-	780 - 970	2300 - 2900	ug/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 144	-	-	780 - 970	2300 - 2900	ug/kg		-
Misc. Organics	RDX	121-82-4	8330A	0 / 144	-	-	49 - 93	120 - 150	ug/kg		-
Misc. Organics	Tetryl	479-45-8	8330A	0 / 144	-	-	60 - 74	120 - 150	ug/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	73 / 313	1.08 J Z	606	0.0127 - 0.438	5.03 - 6.05	ng/kg	SL-039-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	46 / 313	0.293 J Z	22.3	0.00411 - 0.192	5.03 - 6.05	ng/kg	SL-179-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	14 / 313	0.0449 J Z	3.05 J Z	0.00942 - 0.383	5.03 - 6.05	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	96 / 313	0.0116 J Z	1.9 J Z	0.00842 - 0.315	5.03 - 6.05	ng/kg	SL-179-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	34 / 313	0.0875 J Z	24	0.00651 - 0.264	5.03 - 6.05	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	77 / 313	0.059 J Z	8.25	0.00885 - 0.326	5.03 - 6.05	ng/kg	SL-039-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	35 / 313	0.0519 J Z	7.52	0.00491 - 0.224	5.03 - 6.05	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	62 / 313	0.0781 J Z	3.11 J Z	0.0081 - 0.351	5.03 - 6.05	ng/kg	SL-179-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	98 / 313	0.0363 J Z	4.51 J Z	0.00655 - 0.356	5.03 - 6.05	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	66 / 313	0.0176 J Z	1.82 J Z	0.00896 - 0.368	5.03 - 6.05	ng/kg	SL-014-SA5DN	9 - 10
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	86 / 313	0.031 J Z	108	0.00469 - 0.172	5.03 - 6.05	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	28 / 313	0.0503 J Z	3.75 J Z	0.00549 - 0.237	5.03 - 6.05	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	28 / 313	0.0374 J Z	75.7	0.00458 - 0.183	5.03 - 6.05	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	69 / 313	0.0112 J Z	0.449 J Z	0.00842 - 0.322	1.01 - 1.21	ng/kg	SL-014-SA5DN	9 - 10
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	96 / 313	0.0113 J Z	0.587 J Z	0.008 - 0.337	1.01 - 1.21	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	OCDD	3268-87-9	1613B	158 / 313	2.76 J Z	6890 J #	0.01 - 0.589	10.1 - 12.1	ng/kg	SL-039-SA5DN	4 - 5
PCBs and Dioxins	OCDF	39001-02-0	1613B	52 / 313	0.14 J FD, Z	53.8	0.0147 - 0.774	10.1 - 12.1	ng/kg	SL-179-SA5DN	4 - 5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 313	-	-	0.34 - 20	1.8 - 100	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 313	-	-	0.34 - 20	1.8 - 100	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 313	-	-	0.34 - 20	1.8 - 100	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	1 / 313	0.86 J Z	0.86 J Z	0.34 - 20	1.8 - 100	ug/kg	SL-003-SA5DN	8 - 9
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	2 / 313	1.1 J Z	120 J #	0.34 - 20	1.8 - 100	ug/kg	SL-028-SA5DN	11.5 - 12.5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	35 / 313	0.42 J Z	660	0.34 - 20	1.8 - 100	ug/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	36 / 313	0.46 J Z, C, #	11	0.4 - 23	1.8 - 100	ug/kg	SL-028-SA5DN	11.5 - 12.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 313	-	-	0.34 - 20	1.8 - 100	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 313	-	-	0.34 - 20	1.8 - 100	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 313	-	-	1 - 60	3.4 - 200	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 313	-	-	1 - 60	3.4 - 200	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	15 / 313	1.3 J Z	8.3 J S, L	1 - 60	3.4 - 200	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	48 / 129	18.6 J Z	503	17.4 - 200	34.8 - 399	ng/kg	SL-065-SA5DN	7 - 8
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 313	-	-	350 - 3500	1000 - 11000	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	2 / 313	46 J Z	48 J Z	35 - 350	170 - 1800	ug/kg	SL-077-SA5DN	9 - 10
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	0 / 1	-	-	19 - 19	190 - 190	ug/kg		-
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 312	-	-	100 - 1100	350 - 3500	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 313	-	-	170 - 1800	520 - 5300	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 313	-	-	69 - 710	170 - 1800	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 313	-	-	35 - 350	170 - 1800	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 313	-	-	69 - 710	170 - 1800	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 313	-	-	170 - 1800	520 - 5300	ug/kg		-
Semivolatiles	Aniline	62-53-3	8270C	0 / 313	-	-	170 - 1800	520 - 5300	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C	1 / 1	19 J Z	19 J Z	19 - 19	190 - 190	ug/kg	SL-044-SA5DN	12 - 13
Semivolatiles	Benzidine	92-87-5	8270C	0 / 313	-	-	1200 - 12000	3500 - 35000	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	2 / 2	29 J Z	62 J Z	19 - 20	190 - 200	ug/kg	SL-044-SA5DN	12 - 13
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	1 / 1	22 J Z	22 J Z	20 - 20	200 - 200	ug/kg	SL-042-SA5DN	4 - 5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	1 / 1	26 J Z	26 J Z	20 - 20	200 - 200	ug/kg	SL-042-SA5DN	4 - 5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	1 / 1	25 J Z	25 J Z	18 - 18	180 - 180	ug/kg	SL-170-SA5DN	4 - 5
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 313	-	-	170 - 1800	520 - 5300	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 313	-	-	170 - 1800	520 - 5300	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	57 / 83	18 J Z	120 J Z	17 - 20	350 - 410	ug/kg	SL-070-SA5DN	9 - 10
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	1 / 8	22 J Z	22 J Z	17 - 20	170 - 200	ug/kg	SL-044-SA5DN	12 - 13
Semivolatiles	Carbazole	86-74-8	8270C	2 / 313	25 J Z	26 J Z	17 - 180	170 - 1800	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Chrysene	218-01-9	8270C	2 / 2	34 J Z	68 J Z	19 - 20	190 - 200	ug/kg	SL-044-SA5DN	12 - 13
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Diethylphthalate	84-66-2	8270C	0 / 6	-	-	17 - 20	170 - 200	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C	0 / 6	-	-	17 - 20	170 - 200	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	0 / 37	-	-	17 - 20	170 - 200	ug/kg		-
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	1 / 7	190	190	17 - 20	170 - 200	ug/kg	SL-017-SA5DN	7 - 8
Semivolatiles	Fluoranthene	206-44-0	8270C	1 / 2	27 J Z	27 J Z	20 - 20	200 - 200	ug/kg	SL-042-SA5DN	4 - 5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 313	-	-	69 - 710	170 - 1800	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 312	-	-	170 - 1800	520 - 5300	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	1 / 1	20 J Z	20 J Z	18 - 18	180 - 180	ug/kg	SL-170-SA5DN	4 - 5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 313	-	-	170 - 1800	520 - 5300	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	1 / 1	69 J Z	69 J Z	19 - 19	190 - 190	ug/kg	SL-044-SA5DN	12 - 13
Semivolatiles	Phenol	108-95-2	8270C	0 / 313	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Pyrene	129-00-0	8270C	2 / 2	30 J Z	110 J Z	19 - 20	190 - 200	ug/kg	SL-044-SA5DN	12 - 13
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	5 / 313	0.76 J Z	48	0.69 - 16	1.7 - 39	ug/kg	SL-174-SA5DN	4 - 5
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	8 / 313	0.8 J Z	61	0.69 - 16	1.7 - 39	ug/kg	SL-174-SA5DN	4 - 5
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	3 / 313	3.2	450	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	8 / 313	0.5 J Z	92	0.34 - 7.9	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Anthracene	120-12-7	8270C SIM	24 / 312	0.39 J Z	3400	0.34 - 7.9	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	44 / 311	0.78 J Z	10000	0.69 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	48 / 312	0.81 J Z	8500	0.69 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	66 / 312	0.76 J Z	12000	0.69 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	45 / 312	0.79 J Z	4900	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	39 / 313	0.8 J Z	7300	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	71 / 233	6.4 J Z	120	6.2 - 36	19 - 110	ug/kg	SL-198-SA5DN	4 - 5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	11 / 306	7.3 J Z	12 J Z	6.2 - 140	19 - 420	ug/kg	SL-028-SA5DN	11.5 - 12.5
Semivolatiles	Chrysene	218-01-9	8270C SIM	85 / 311	0.39 J FD, Q, Z J Z	12000	0.34 - 160	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	20 / 313	0.77 J Z	1900	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	1 / 307	12 J Z	12 J Z	6.2 - 140	19 - 420	ug/kg	SL-162-SA5DN	4 - 5
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	1 / 307	9.8 J Z	9.8 J Z	6.2 - 140	19 - 420	ug/kg	SL-162-SA5DN	4 - 5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	22 / 276	8.3 J Z	56 J Z	6.2 - 140	19 - 420	ug/kg	SL-180-SA5DN	9 - 10
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	26 / 306	6.9 J Z	31	6.2 - 140	19 - 420	ug/kg	SL-011-SA5DN	4 - 5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	51 / 312	0.77 J Z	16000	0.69 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Fluorene	86-73-7	8270C SIM	10 / 313	1 J Z	290	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	29 / 312	0.75 J Z	5200	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Naphthalene	91-20-3	8270C SIM	9 / 313	0.78 J Z	43	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	1 / 313	2.1	2.1	0.69 - 16	1.7 - 39	ug/kg	SL-162-SA5DN	4 - 5
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	44 / 312	0.83 J Z	4200	0.69 - 16	1.7 - 39	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Pyrene	129-00-0	8270C SIM	55 / 311	0.78 J Z	15000	0.69 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	0 / 126	-	-	0.42 - 4.7	1.3 - 14	mg/kg		-
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	18 / 126	0.49 J Z	70	0.42 - 4.7	1.3 - 14	mg/kg	SL-016-SA5DN	4 - 5
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	56 / 126	0.47 J Z	540	0.42 - 4.7	1.3 - 14	mg/kg	SL-016-SA5DN	4 - 5
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	85 / 126	0.44 J Z	300	0.42 - 4.7	1.3 - 14	mg/kg	SL-039-SA5DN	11.5 - 12.5
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	2 / 126	0.5 J Z	0.54 J FD, Q, Z	0.42 - 4.7	1.3 - 14	mg/kg	SL-033-SA5DN	4 - 5
Volatiles	GRO (C5-C12)	GROC5C12	8015M	3 / 126	0.2 J Z	0.3 J Z	0.2 - 0.3	0.9 - 1.3	mg/kg	SL-015-SA5DN SL-047-SA5DN	4 - 5 4 5
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	0 / 204	-	-	0.1 - 0.14	3.7 - 5.2	ug/kg		-
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	0 / 204	-	-	0.21 - 0.3	3.7 - 5.2	ug/kg		-
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	0 / 204	-	-	0.25 - 0.35	3.7 - 5.2	ug/kg		-
Volatiles	1,1-Dichloroethane	75-34-3	8260B	0 / 204	-	-	0.09 - 0.13	3.7 - 5.2	ug/kg		-
Volatiles	1,1-Dichloroethene	75-35-4	8260B	0 / 204	-	-	0.36 - 0.51	3.7 - 5.2	ug/kg		-
Volatiles	1,1-Dichloropropene	563-58-6	8260B	0 / 204	-	-	0.12 - 0.17	3.7 - 5.2	ug/kg		-
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	0 / 204	-	-	0.3 - 0.43	3.7 - 5.2	ug/kg		-
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	0 / 204	-	-	0.16 - 0.24	3.7 - 5.2	ug/kg		-
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	0 / 204	-	-	0.37 - 0.53	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	0 / 204	-	-	0.64 - 0.92	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dibromoethane	106-93-4	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	0 / 204	-	-	0.08 - 0.12	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dichloroethane	107-06-2	8260B	0 / 204	-	-	0.14 - 0.2	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dichloropropane	78-87-5	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	0 / 204	-	-	0.09 - 0.13	3.7 - 5.2	ug/kg		-
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	1,3-Dichloropropane	142-28-9	8260B	0 / 204	-	-	0.07 - 0.11	3.7 - 5.2	ug/kg		-
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	0 / 204	-	-	0.15 - 0.21	3.7 - 5.2	ug/kg		-
Volatiles	2,2-Dichloropropane	594-20-7	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	2-Butanone	78-93-3	8260B	2 / 204	3.2 J Z	3.9 J Z	1.1 - 1.6	7.3 - 10	ug/kg	SL-003-SA5DN	0.5 - 1.5
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	0 / 204	-	-	0.27 - 0.39	3.7 - 5.2	ug/kg		-
Volatiles	2-Chlorotoluene	95-49-8	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	2-Hexanone	591-78-6	8260B	0 / 204	-	-	1.5 - 2.1	7.3 - 10	ug/kg		-

Table 3-2
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Volatiles	4-Chlorotoluene	106-43-4	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	0 / 204	-	-	0.36 - 0.51	7.3 - 10	ug/kg		-
Volatiles	Acetone	67-64-1	8260B	58 / 204	7.3 J Z	50	6.1 - 8.8	7.3 - 10	ug/kg	SL-181-SA5DN	4 - 5
Volatiles	Benzene	71-43-2	8260B	3 / 204	0.17 J Z	0.21 J Z	0.09 - 0.13	3.7 - 5.2	ug/kg	SL-003-SA5DN	0.5 - 1.5
Volatiles	Bromobenzene	108-86-1	8260B	0 / 204	-	-	0.12 - 0.17	3.7 - 5.2	ug/kg		-
Volatiles	Bromochloromethane	74-97-5	8260B	0 / 204	-	-	0.3 - 0.43	3.7 - 5.2	ug/kg		-
Volatiles	Bromodichloromethane	75-27-4	8260B	0 / 204	-	-	0.07 - 0.11	3.7 - 5.2	ug/kg		-
Volatiles	Bromoform	75-25-2	8260B	0 / 204	-	-	0.37 - 0.53	3.7 - 5.2	ug/kg		-
Volatiles	Bromomethane	74-83-9	8260B	0 / 204	-	-	0.23 - 0.33	3.7 - 5.2	ug/kg		-
Volatiles	Carbon tetrachloride	56-23-5	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	Chlorobenzene	108-90-7	8260B	0 / 204	-	-	0.1 - 0.14	3.7 - 5.2	ug/kg		-
Volatiles	Chloroethane	75-00-3	8260B	0 / 204	-	-	0.12 - 0.17	3.7 - 5.2	ug/kg		-
Volatiles	Chloroform	67-66-3	8260B	6 / 204	0.13 J Z	0.19 J Z	0.11 - 0.16	3.7 - 5.2	ug/kg	SL-053-SA5DN	4 - 5
Volatiles	Chloromethane	74-87-3	8260B	0 / 204	-	-	0.3 - 0.43	3.7 - 5.2	ug/kg		-
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	0 / 204	-	-	0.46 - 0.66	4.6 - 6.6	ug/kg		-
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	0 / 204	-	-	0.17 - 0.25	3.7 - 5.2	ug/kg		-
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	0 / 204	-	-	0.15 - 0.21	3.7 - 5.2	ug/kg		-
Volatiles	Dibromochloromethane	124-48-1	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	Dibromomethane	74-95-3	8260B	0 / 204	-	-	0.22 - 0.32	3.7 - 5.2	ug/kg		-
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	Ethylbenzene	100-41-4	8260B	0 / 204	-	-	0.05 - 0.08	3.7 - 5.2	ug/kg		-
Volatiles	Freon 113	76-13-1	8260B	1 / 204	0.19 J FD, Z	0.19 J FD, Z	0.1 - 0.14	3.7 - 5.2	ug/kg	SL-014-SA5DN	4 - 5
Volatiles	Freon 113a	75-88-7	8260B	0 / 204	-	-	0.46 - 0.66	4.6 - 6.6	ug/kg		-
Volatiles	Hexachlorobutadiene	87-68-3	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	Isopropylbenzene	98-82-8	8260B	0 / 204	-	-	0.05 - 0.08	3.7 - 5.2	ug/kg		-
Volatiles	Isopropyltoluene	99-87-6	8260B	0 / 204	-	-	0.1 - 0.14	3.7 - 5.2	ug/kg		-
Volatiles	m,p-Xylene	179601-23-1	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	0 / 204	-	-	0.19 - 0.28	3.7 - 5.2	ug/kg		-
Volatiles	Methylene chloride	75-09-2	8260B	31 / 204	4.5	130 J L	0.22 - 0.32	3.7 - 5.2	ug/kg	SL-158-SA5DN	4 - 5
Volatiles	N-Butylbenzene	104-51-8	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	N-Propylbenzene	103-65-1	8260B	0 / 204	-	-	0.06 - 0.09	3.7 - 5.2	ug/kg		-
Volatiles	o-Xylene	95-47-6	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	sec-Butylbenzene	135-98-8	8260B	0 / 204	-	-	0.05 - 0.08	3.7 - 5.2	ug/kg		-
Volatiles	Styrene	100-42-5	8260B	0 / 204	-	-	0.09 - 0.13	3.7 - 5.2	ug/kg		-
Volatiles	tert-Butylbenzene	98-06-6	8260B	0 / 204	-	-	0.15 - 0.21	3.7 - 5.2	ug/kg		-
Volatiles	Tetrachloroethene	127-18-4	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	Toluene	108-88-3	8260B	82 / 204	0.08 J Z	0.47 J Z	0.07 - 0.11	3.7 - 5.2	ug/kg	SL-035-SA5DN	4 - 5
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	Trichloroethene	79-01-6	8260B	0 / 204	-	-	0.14 - 0.2	3.7 - 5.2	ug/kg		-
Volatiles	Trichlorofluoromethane	75-69-4	8260B	0 / 204	-	-	0.27 - 0.38	3.7 - 5.2	ug/kg		-
Volatiles	Vinyl Chloride	75-01-4	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	0 / 204	-	-	4.4 - 7.9	13 - 24	ug/kg		-

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Percent Moisture	MOIST	160.3M	498 / 498	1.2	45.9	0.5 - 0.5	0.5 - 0.5	%	SL-042-SA5DN	0 - 0.5
Inorganic	Fluoride	16984-48-8	300.0	471 / 497	1.1 J Q J Q, Z J Z	29.6 J Q	0.81 - 1.5	1 - 1.8	mg/kg	SL-079-SA5DN	4 - 5
Inorganic	Nitrate	14797-55-8	300.0	197 / 209	0.94 J Z	56.1	0.81 - 4.9	1.5 - 9.2	mg/kg	SL-192-SA5DN	0 - 0.5
Inorganic	Perchlorate	14797-73-0	314.0	1 / 497	52.6	52.6	9.1 - 16.6	30.4 - 55.5	ug/kg	SL-203-SA5DN	0 - 0.5
Inorganic	Perchlorate	14797-73-0	6850	9 / 73	2.4 J Z	4.8 J Z	2.1 - 6	5.1 - 6	ug/kg	SL-191-SA5DN	4 - 5
Inorganic	Chromium VI	18540-29-9	7199	338 / 497	0.23 J Z	11.8	0.2 - 0.37	1 - 1.8	mg/kg	SL-188-SA5DN	9 - 10
Inorganic	Mercury	7439-97-6	7471A	228 / 497	0.0034 J Z	53.8	0.0028 - 0.314	0.0965 - 10.9	mg/kg	SL-113-SA5DN	0 - 0.5
Inorganic	Cyanide	57-12-5	9012B	2 / 209	0.2 J Z	0.23 J Z	0.18 - 1	0.49 - 2.8	mg/kg	SL-192-SA5DN	0 - 0.5
Inorganic	pH	pH	9045M	497 / 497	6.14	10.7	0.01 - 0.01	0.01 - 0.01	pH unit	SL-165-SA5DN	9 - 10
Inorganic	Aluminum	7429-90-5	6010B	497 / 497	2970 J E	47700	4.92 - 28.5	19.6 - 113	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Boron	7440-42-8	6010B	359 / 497	1 J Z	27.5	0.352 - 5.04	4.89 - 28.3	mg/kg	SL-129-SA5DN	0 - 0.5
Inorganic	Calcium	7440-70-2	6010B	496 / 497	2500	122000 J E	2.47 - 33.7	19.6 - 118	mg/kg	SL-180-SA5DN	4 - 5
Inorganic	Iron	7439-89-6	6010B	496 / 497	4320	99800	2.58 - 43.1	19.6 - 183	mg/kg	SL-064-SA5DN	0 - 0.5
Inorganic	Lithium	7439-93-2	6010B	497 / 497	1.3 J Z	64.8	0.22 - 0.75	2 - 3.7	mg/kg	SL-153-SA5DN	7 - 8
Inorganic	Magnesium	7439-95-4	6010B	496 / 497	893	10500	0.435 - 4.65	9.78 - 18.3	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Manganese	7439-96-5	6010B	497 / 497	126 J E	1590 J E	0.0356 - 0.412	0.489 - 2.64	mg/kg	SL-105-SA5DN	0 - 0.5
Inorganic	Phosphorus	7723-14-0	6010B	497 / 497	76.8 J Q	1570 J Q	0.346 - 3.17	9.78 - 56.6	mg/kg	SL-012-SA5DN	4 - 5
Inorganic	Potassium	7440-09-7	6010B	497 / 497	459 J Q	8590	11.2 - 102	48.9 - 283	mg/kg	SL-197-SA5DN	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	496 / 497	56.5 J Z	990	5.88 - 68.3	97.8 - 183	mg/kg	SL-066-SA5DN	9 - 10
Inorganic	Strontium	7440-24-6	6010B	497 / 497	14.1	147 J E	0.0247 - 0.113	0.489 - 0.915	mg/kg	SL-180-SA5DN	4 - 5
Inorganic	Tin	7440-31-5	6010B	1 / 497	13.5	13.5	0.316 - 1.83	9.88 - 18.3	mg/kg	SL-140-SA5DN	0 - 0.5
Inorganic	Titanium	7440-32-6	6010B	496 / 497	189	2030	0.0701 - 2.25	0.988 - 5.91	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Zirconium	7440-67-7	6010B	479 / 497	0.906 J Z	9.49	0.454 - 1.54	4.89 - 9.15	mg/kg	SL-200-SA5DN	9 - 10
Inorganic	Antimony	7440-36-0	6020	380 / 497	0.0646 J Q, Z	41.4 J Q	0.0581 - 0.109	0.194 - 0.362	mg/kg	SL-194-SA5DN	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	497 / 497	0.944 J Q	63	0.0775 - 0.145	0.388 - 0.725	mg/kg	SL-129-SA5DN	2.5 - 3.5
Inorganic	Barium	7440-39-3	6020	497 / 497	21	715 J E, A	0.106 - 0.63	0.392 - 2.38	mg/kg	SL-066-SA5DN	9 - 10
Inorganic	Beryllium	7440-41-7	6020	496 / 497	0.143 J Q	1.82 J Q	0.0155 - 0.0455	0.0969 - 0.285	mg/kg	SL-051-SA5DN	4 - 5
Inorganic	Cadmium	7440-43-9	6020	495 / 497	0.0535 J Q, Z	2.89 J Q, E	0.0388 - 0.0725	0.0969 - 0.181	mg/kg	SL-129-SA5DN	0 - 0.5
Inorganic	Chromium	7440-47-3	6020	497 / 497	12.4 J Q	81.1 J E	0.116 - 0.217	0.388 - 0.725	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Cobalt	7440-48-4	6020	497 / 497	1.99	56.5 J E, Q, A	0.0194 - 0.0362	0.0969 - 0.181	mg/kg	SL-045-SA5DN	0 - 0.5
Inorganic	Copper	7440-50-8	6020	497 / 497	2.61 J Q	121 J E, Q	0.0639 - 0.12	0.388 - 0.725	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Lead	7439-92-1	6020	497 / 497	1.54 J Q	122 J Q, E, A	0.0101 - 0.0317	0.194 - 0.609	mg/kg	SL-194-SA5DN	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	497 / 497	0.103 J Z	8.06	0.0484 - 0.0906	0.0969 - 0.181	mg/kg	SL-184-SA5DN	0 - 0.5
Inorganic	Nickel	7440-02-0	6020	497 / 497	6.64 J Q	60 J E, Q, A	0.0969 - 0.181	0.388 - 0.725	mg/kg	SL-098-SA5DN	4 - 5
Inorganic	Selenium	7782-49-2	6020	421 / 497	0.0455 J Z	1.08	0.0388 - 0.0725	0.388 - 0.725	mg/kg	SL-013-SA5DN	0 - 0.5
Inorganic	Silver	7440-22-4	6020	489 / 497	0.0162 J Z	2.6	0.0116 - 0.0217	0.0969 - 0.181	mg/kg	SL-195-SA5DN	0 - 0.5
Inorganic	Thallium	7440-28-0	6020	496 / 497	0.0642 J Z	0.807 J Q	0.0291 - 0.0538	0.0969 - 0.179	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Vanadium	7440-62-2	6020	497 / 497	12.9	152 J E	0.0213 - 0.0399	0.0969 - 0.181	mg/kg	SL-042-SA5DN	0 - 0.5
Inorganic	Zinc	7440-66-6	6020	497 / 497	10.1 J Q, A	370 J A	0.543 - 1.68	2.91 - 9.01	mg/kg	SL-090-SA5DN	0 - 0.5
Misc. Organics	2-Propanol	67-63-0	8015B	2 / 209	150 J Z	150 J Z	100 - 180	510 - 920	ug/kg	SL-140-SA5DN SL-066-SA5DN	0 - 0.5 0 - 0.5
Misc. Organics	Ethanol	64-17-5	8015B	0 / 209	-	-	100 - 180	510 - 920	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	6 / 209	130 J Z	630	100 - 180	510 - 920	ug/kg	SL-004-SA5DN	3.5 - 4.5
Misc. Organics	m-Terphenyl	92-06-8	8015B	1 / 209	5.3 J S	5.3 J S	1.5 - 17	3.5 - 39	mg/kg	SL-016-SA5DN	0 - 0.5
Misc. Organics	o-Terphenyl	84-15-1	8015B	1 / 209	1.9 J S, Z	1.9 J S, Z	1.5 - 17	3.5 - 39	mg/kg	SL-016-SA5DN	0 - 0.5
Misc. Organics	p-Terphenyl	92-94-4	8015B	4 / 209	2.2 J Q, E, Z	28 J Z	1.5 - 17	3.5 - 39	mg/kg	SL-121-SA5DN	0 - 0.5
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 209	-	-	5.1 - 9.2	10 - 18	mg/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	1 / 209	7 J Z	7 J Z	5.1 - 9.2	10 - 18	mg/kg	SL-197-SA5DN	4 - 5
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 209	-	-	5.1 - 9.2	10 - 18	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	13 / 209	660 J Z	6600	610 - 2600	1500 - 6400	ug/kg	SL-003-SA5DN	0.5 - 1.5
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 236	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 236	-	-	38 - 72	110 - 220	ug/kg		-

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 236	-	-	76 - 220	230 - 670	ug/kg		-
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 236	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 236	-	-	76 - 140	230 - 430	ug/kg		-
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 236	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 236	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 236	-	-	76 - 140	110 - 220	ug/kg		-
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 236	-	-	94 - 180	110 - 220	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 236	-	-	57 - 110	110 - 220	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 236	-	-	76 - 140	110 - 220	ug/kg		-
Misc. Organics	HMX	2691-41-0	8330A	0 / 236	-	-	94 - 180	280 - 540	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	9 / 236	43 J Z	78 J Z	38 - 72	110 - 220	ug/kg	SL-018-SA5DN	7.5 - 8.5
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 236	-	-	38 - 72	110 - 220	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 236	-	-	760 - 1400	2300 - 4300	ug/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 236	-	-	760 - 1400	2300 - 4300	ug/kg		-
Misc. Organics	RDX	121-82-4	8330A	3 / 236	68 J Z	140	47 - 150	110 - 220	ug/kg	SL-084-SA5DN	0 - 0.5
Misc. Organics	Tetryl	479-45-8	8330A	0 / 236	-	-	58 - 110	110 - 220	ug/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	257 / 497	1.08 J Z	10500 J #	0.0127 - 0.85	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	220 / 497	0.293 J Z	642	0.00411 - 0.192	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	100 / 497	0.0449 J Z	48.1	0.00942 - 0.383	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	248 / 497	0.0116 J Z	59	0.00842 - 0.43	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	189 / 497	0.0875 J Z	25.9	0.00651 - 0.264	4.95 - 9.18	ng/kg	SL-207-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	256 / 497	0.059 J Z	222	0.00885 - 0.45	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	166 / 497	0.0519 J Z	13.3	0.00491 - 0.224	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	240 / 497	0.0781 J Z	136	0.0081 - 0.429	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	227 / 497	0.0363 J Z	5.05 J Z	0.00655 - 0.356	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	198 / 497	0.0176 J Z	31.4	0.00896 - 0.368	4.95 - 9.18	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	236 / 497	0.031 J Z	108	0.00469 - 0.172	4.95 - 9.18	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	149 / 497	0.0503 J Z	17.9	0.00549 - 0.237	4.95 - 9.18	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	155 / 497	0.0374 J Z	75.7	0.00458 - 0.183	4.95 - 9.18	ng/kg	SL-091-SA5DN	4 - 5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	148 / 497	0.0112 J Z	3.55	0.0084 - 0.322	0.99 - 1.84	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	245 / 497	0.0113 J Z	10.9	0.008 - 0.337	0.99 - 1.84	ng/kg	SL-007-SA5DN	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	342 / 497	2.76 J Z	180000 J #	0.01 - 1.32	9.9 - 18.4	ng/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	224 / 497	0.14 J FD, Z	2350	0.0147 - 0.774	9.9 - 18.4	ng/kg	SL-090-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 497	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 497	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 497	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	1 / 497	0.86 J Z	0.86 J Z	0.33 - 190	1.7 - 970	ug/kg	SL-003-SA5DN	8 - 9
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	2 / 497	1.1 J Z	120 J #	0.33 - 190	1.7 - 970	ug/kg	SL-028-SA5DN	11.5 - 12.5
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	65 / 497	0.42 J Z	1300	0.33 - 190	1.7 - 970	ug/kg	SL-007-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	179 / 497	0.45 J Z	300 J C	0.39 - 220	1.7 - 970	ug/kg	SL-207-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	1 / 497	4.4	4.4	0.33 - 190	1.7 - 970	ug/kg	SL-045-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 497	-	-	0.33 - 190	1.7 - 970	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 497	-	-	1 - 570	3.3 - 1900	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	1 / 497	15	15	1 - 570	3.3 - 1900	ug/kg	SL-130-SA5DN	0 - 0.5
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	122 / 497	1.3 J L, Z J Z J Z, C	43	1 - 570	3.3 - 1900	ug/kg	SL-055-SA5DN	0 - 0.5
Pesticides	4,4'-DDD	72-54-8	8081A	9 / 183	0.076 J Z	1.5 J S	0.067 - 2.7	0.34 - 3.7	ug/kg	SL-105-SA5DN	0 - 0.5
Pesticides	4,4'-DDE	72-55-9	8081A	104 / 183	0.093 J S, Z	77	0.067 - 4.9	0.34 - 18	ug/kg	SL-123-SA5DN	0 - 0.5
Pesticides	4,4'-DDT	50-29-3	8081A	147 / 183	0.1 J S, Z	63	0.067 - 5.5	0.34 - 9.1	ug/kg	SL-207-SA5DN	0 - 0.5
Pesticides	Aldrin	309-00-2	8081A	1 / 183	0.11 J S, Z	0.11 J S, Z	0.067 - 0.18	0.17 - 0.45	ug/kg	SL-180-SA5DN	0 - 0.5
Pesticides	Alpha-BHC	319-84-6	8081A	2 / 183	0.04 J FD, Z	0.045 J S, Z	0.034 - 0.091	0.17 - 0.45	ug/kg	SL-098-SA5DN	0 - 0.5
Pesticides	Beta-BHC	319-85-7	8081A	19 / 183	0.1 J Z	2.7	0.061 - 0.32	0.17 - 0.87	ug/kg	SL-133-SA5DN	0 - 0.5
Pesticides	Chlordane	57-74-9	8081A	114 / 183	0.95 J S, Z	15	0.27 - 28	3.4 - 38	ug/kg	SL-024-SA5DN	0 - 0.5

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Pesticides	Delta-BHC	319-86-8	8081A	25 / 183	0.042 J Z, C, #	1.2	0.036 - 0.48	0.17 - 0.48	ug/kg	SL-196-SA5DN	0 - 0.5
Pesticides	Dieldrin	60-57-1	8081A	36 / 183	0.1 J Z	11	0.067 - 18	0.34 - 18	ug/kg	SL-180-SA5DN	0 - 0.5
Pesticides	Endosulfan I	959-98-8	8081A	4 / 183	0.064 J Z, C	0.33	0.044 - 0.47	0.17 - 1.8	ug/kg	SL-005-SA5DN	0 - 0.5
Pesticides	Endosulfan II	33213-65-9	8081A	10 / 183	0.074 J Z	1.3 J S	0.067 - 1.8	0.34 - 3.7	ug/kg	SL-049-SA5DN	0 - 0.5
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	1 / 183	0.27 J Z	0.27 J Z	0.067 - 1.4	0.34 - 7.3	ug/kg	SL-092-SA5DN	0 - 0.5
Pesticides	Endrin	72-20-8	8081A	2 / 183	0.099 J S, L, Z	0.12 J Z	0.067 - 8.2	0.34 - 8.2	ug/kg	SL-005-SA5DN	0 - 0.5
Pesticides	Endrin Aldehyde	7421-93-4	8081A	18 / 183	0.081 J S, Z	21 J #	0.067 - 2.1	0.34 - 9.1	ug/kg	SL-207-SA5DN	0 - 0.5
Pesticides	Endrin Ketone	53494-70-5	8081A	11 / 183	0.084 J Z J Z, C	0.37 J S, Z	0.067 - 1.4	0.34 - 7.3	ug/kg	SL-045-SA5DN	0 - 0.5
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	16 / 183	0.041 J S, Z	0.15 J Z	0.034 - 0.096	0.17 - 0.45	ug/kg	SL-203-SA5DN	0 - 0.5
Pesticides	Heptachlor	76-44-8	8081A	8 / 183	0.1 J FD, Z J S, Z	0.31	0.061 - 0.31	0.17 - 0.86	ug/kg	SL-090-SA5DN	0 - 0.5
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	19 / 183	0.035 J S, Z	0.33	0.034 - 4.3	0.17 - 4.3	ug/kg	SL-203-SA5DN	0 - 0.5
Pesticides	Methoxychlor	72-43-5	8081A	1 / 183	0.49 J L, Z	0.49 J L, Z	0.34 - 7.3	1.7 - 35	ug/kg	SL-107-SA5DN	0 - 0.5
Pesticides	Mirex	2385-85-5	8081A	22 / 183	0.074 J Z, C, #	2.2 J S	0.067 - 5.7	0.34 - 7.3	ug/kg	SL-183-SA5DN	0 - 0.5
Pesticides	Toxaphene	8001-35-2	8081A	1 / 183	4.3 J Z	4.3 J Z	2.2 - 19	6.7 - 36	ug/kg	SL-090-SA5DN	0 - 0.5
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	0 / 183	-	-	4.4 - 8.1	9.1 - 17	ug/kg		-
Pesticides	2,4 DB	94-82-6	8151A	15 / 183	1.2 J Z	110	0.63 - 29	1.7 - 29	ug/kg	SL-192-SA5DN	0 - 0.5
Pesticides	2,4,5-T	93-76-5	8151A	5 / 183	0.1 J Z	0.4	0.083 - 0.32	0.17 - 0.32	ug/kg	SL-034-SA5DN	0 - 0.5
Pesticides	2,4,5-TP	93-72-1	8151A	42 / 183	0.08 J Z	0.44	0.076 - 0.82	0.17 - 1.9	ug/kg	SL-064-SA5DN	0 - 0.5
Pesticides	2,4-D	94-75-7	8151A	7 / 183	1.7 J Z	2.4 J Z	1.2 - 7.9	3.6 - 7.9	ug/kg	SL-040-SA5DN	0 - 0.5
Pesticides	Dicamba	1918-00-9	8151A	6 / 183	0.46 J Z, #	0.72 J Z	0.4 - 0.74	1.2 - 2.2	ug/kg	SL-065-SA5DN	0 - 0.5
Pesticides	Dichlorprop	120-36-5	8151A	11 / 183	0.87 J Z	2.9	0.81 - 2.8	1.7 - 3.1	ug/kg	SL-131-SA5DN	0 - 0.5
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	0 / 183	-	-	0.81 - 7	2.4 - 7	ug/kg		-
Pesticides	MCPA	94-74-6	8151A	84 / 183	97 J Z	2400 J S	77 - 1300	250 - 1300	ug/kg	SL-066-SA5DN	0 - 0.5
Pesticides	MCPP	93-65-2	8151A	9 / 183	88 J Z	350 J S	76 - 830	250 - 2800	ug/kg	SL-066-SA5DN SL-074-SA5DN	0 - 0.5 0 0.5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	78 / 214	18.4 J Z	1040	16.7 - 308	33.4 - 616	ng/kg	SL-140-SA5DN	0 - 0.5
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	1 / 1	26 J Z	26 J Z	17 - 17	170 - 170	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 497	-	-	330 - 3500	1000 - 11000	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	2 / 497	46 J Z	48 J Z	33 - 350	170 - 1800	ug/kg	SL-077-SA5DN	9 - 10
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	1 / 2	31 J Z	31 J Z	17 - 19	170 - 190	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 496	-	-	100 - 1100	330 - 3500	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 496	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 497	-	-	170 - 1800	500 - 5300	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 497	-	-	67 - 710	170 - 1800	ug/kg		-

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 497	-	-	33 - 350	170 - 1800	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 497	-	-	67 - 710	170 - 1800	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 497	-	-	170 - 1800	500 - 5300	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C	4 / 5	21 J Z	370	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Acenaphthylene	208-96-8	8270C	1 / 1	45 J Z	45 J Z	19 - 19	190 - 190	ug/kg	SL-197-SA5DN	0 - 0.5
Semivolatiles	Aniline	62-53-3	8270C	0 / 497	-	-	170 - 1800	500 - 5300	ug/kg		-
Semivolatiles	Anthracene	120-12-7	8270C	9 / 9	19 J Z	590	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Benzidine	92-87-5	8270C	0 / 497	-	-	1200 - 12000	3300 - 35000	ug/kg		-
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	25 / 25	18 J L, Z	2900	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	26 / 26	22 J Z J L, Z	3100	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	26 / 26	19 J Z	3400	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	27 / 27	19 J Z	2200	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	15 / 15	21 J Z	1600	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 497	-	-	170 - 1800	500 - 5300	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 497	-	-	170 - 1800	500 - 5300	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	164 / 219	18 J L, Z J Z	1200	17 - 84	340 - 1700	ug/kg	SL-197-SA5DN	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	10 / 88	19 J Z	740	17 - 31	170 - 310	ug/kg	SL-056-SA5DN	0 - 0.5
Semivolatiles	Carbazole	86-74-8	8270C	12 / 497	20 J Z	360	17 - 180	170 - 1800	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C	36 / 36	19 J L, Z	3000	17 - 31	170 - 310	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	10 / 10	22 J Z	590	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	1 / 497	150 J Z	150 J Z	17 - 180	170 - 1800	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Diethylphthalate	84-66-2	8270C	0 / 83	-	-	17 - 31	170 - 310	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C	1 / 84	42 J Z	42 J Z	17 - 31	170 - 310	ug/kg	SL-067-SA5DN	0 - 0.5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	6 / 114	19 J Z	680	17 - 31	170 - 310	ug/kg	SL-049-SA5DN	0 - 0.5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	3 / 82	25 J Z	230	17 - 31	170 - 310	ug/kg	SL-188-SA5DN	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C	31 / 32	19 J Z	3100	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C	2 / 2	21 J Z	260	17 - 19	170 - 190	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 497	-	-	67 - 710	170 - 1800	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 496	-	-	170 - 1800	500 - 5300	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	19 / 19	20 J Z	1900	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	Isophorone	78-59-1	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Naphthalene	91-20-3	8270C	1 / 1	37 J Z	37 J Z	17 - 17	170 - 170	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 497	-	-	170 - 1800	500 - 5300	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	17 / 17	21 J Z	2900	17 - 21	170 - 210	ug/kg	SL-180-SA5DN	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	0 / 497	-	-	17 - 180	170 - 1800	ug/kg		-
Semivolatiles	Pyrene	129-00-0	8270C	35 / 35	18 J L, Z	2900	17 - 21	170 - 210	ug/kg	SL-187-SA5DN	0 - 0.5
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	27 / 496	0.73 J Z	48	0.66 - 19	1.7 - 48	ug/kg	SL-174-SA5DN	4 - 5
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	40 / 496	0.7 J Z	61	0.66 - 19	1.7 - 48	ug/kg	SL-174-SA5DN	4 - 5
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	21 / 493	0.74 J Z	450	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	25 / 496	0.35 J Z	92	0.33 - 9.6	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Anthracene	120-12-7	8270C SIM	94 / 488	0.37 J Z	3400	0.33 - 9.6	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	148 / 472	0.75 J Z	10000	0.66 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	166 / 471	0.76 J Z	8500	0.66 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	208 / 471	0.76 J Z	12000	0.66 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	154 / 470	0.77 J Z	4900	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	155 / 482	0.73 J Z	7300	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	111 / 285	6.4 J Z	700	6 - 130	18 - 380	ug/kg	SL-143-SA5DN	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	25 / 415	6.9 J Z	36 J Z	6 - 140	18 - 420	ug/kg	SL-033-SA5DN	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C SIM	225 / 462	0.39 J FD, Q, Z J Z	12000	0.33 - 160	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	80 / 487	0.76 J Z	1900	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	3 / 418	7.1 J Z	12 J Z	6 - 140	18 - 420	ug/kg	SL-162-SA5DN	4 - 5
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	2 / 417	9.8 J Z	14 J Q, E, Z	6 - 140	18 - 420	ug/kg	SL-072-SA5DN	0 - 0.5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	37 / 387	6.7 J Z	71 J Z	6 - 140	18 - 420	ug/kg	SL-036-SA5DN	0 - 0.5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	40 / 419	6.9 J Z	51 J Z	6 - 140	18 - 420	ug/kg	SL-009-SA5DN	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	179 / 466	0.77 J Z	16000	0.66 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Fluorene	86-73-7	8270C SIM	40 / 495	0.75 J Z	290	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	122 / 478	0.75 J Z	5200	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Naphthalene	91-20-3	8270C SIM	64 / 496	0.71 J Z	43	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	1 / 497	2.1	2.1	0.66 - 19	1.7 - 48	ug/kg	SL-162-SA5DN	4 - 5
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	159 / 480	0.82 J Z	4200	0.66 - 19	1.7 - 48	ug/kg	SL-016-SA5DN	4 - 5
Semivolatiles	Pyrene	129-00-0	8270C SIM	183 / 463	0.77 J Z	15000	0.66 - 310	1.7 - 790	ug/kg	SL-016-SA5DN	4 - 5
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	1 / 209	0.98 J Z	0.98 J Z	0.42 - 22	1.3 - 66	mg/kg	SL-191-SA5DN	0 - 0.5
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	86 / 209	0.49 J Z	70	0.42 - 22	1.3 - 66	mg/kg	SL-016-SA5DN	4 - 5
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	139 / 209	0.47 J Z	540	0.42 - 22	1.3 - 66	mg/kg	SL-016-SA5DN	4 - 5
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	167 / 209	0.44 J Z	1200	0.42 - 22	1.3 - 66	mg/kg	SL-051-SA5DN	0 - 0.5
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	4 / 209	0.5 J Z	1.9 J Z	0.42 - 22	1.3 - 66	mg/kg	SL-197-SA5DN	0 - 0.5
Volatiles	GRO (C5-C12)	GROC5C12	8015M	3 / 126	0.2 J Z	0.3 J Z	0.2 - 0.3	0.9 - 1.3	mg/kg	SL-015-SA5DN SL-047-SA5DN	4 - 5 4 5
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	0 / 204	-	-	0.1 - 0.14	3.7 - 5.2	ug/kg		-
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	0 / 204	-	-	0.21 - 0.3	3.7 - 5.2	ug/kg		-
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	0 / 204	-	-	0.25 - 0.35	3.7 - 5.2	ug/kg		-
Volatiles	1,1-Dichloroethane	75-34-3	8260B	0 / 204	-	-	0.09 - 0.13	3.7 - 5.2	ug/kg		-
Volatiles	1,1-Dichloroethene	75-35-4	8260B	0 / 204	-	-	0.36 - 0.51	3.7 - 5.2	ug/kg		-
Volatiles	1,1-Dichloropropene	563-58-6	8260B	0 / 204	-	-	0.12 - 0.17	3.7 - 5.2	ug/kg		-
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	0 / 204	-	-	0.3 - 0.43	3.7 - 5.2	ug/kg		-
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	0 / 204	-	-	0.16 - 0.24	3.7 - 5.2	ug/kg		-
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	0 / 204	-	-	0.37 - 0.53	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	0 / 204	-	-	0.64 - 0.92	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dibromoethane	106-93-4	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	0 / 204	-	-	0.08 - 0.12	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dichloroethane	107-06-2	8260B	0 / 204	-	-	0.14 - 0.2	3.7 - 5.2	ug/kg		-
Volatiles	1,2-Dichloropropane	78-87-5	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	0 / 204	-	-	0.09 - 0.13	3.7 - 5.2	ug/kg		-
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	1,3-Dichloropropane	142-28-9	8260B	0 / 204	-	-	0.07 - 0.11	3.7 - 5.2	ug/kg		-
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	0 / 204	-	-	0.15 - 0.21	3.7 - 5.2	ug/kg		-
Volatiles	2,2-Dichloropropane	594-20-7	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	2-Butanone	78-93-3	8260B	2 / 204	3.2 J Z	3.9 J Z	1.1 - 1.6	7.3 - 10	ug/kg	SL-003-SA5DN	0.5 - 1.5
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	0 / 204	-	-	0.27 - 0.39	3.7 - 5.2	ug/kg		-
Volatiles	2-Chlorotoluene	95-49-8	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	2-Hexanone	591-78-6	8260B	0 / 204	-	-	1.5 - 2.1	7.3 - 10	ug/kg		-
Volatiles	4-Chlorotoluene	106-43-4	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	0 / 204	-	-	0.36 - 0.51	7.3 - 10	ug/kg		-
Volatiles	Acetone	67-64-1	8260B	58 / 204	7.3 J Z	50	6.1 - 8.8	7.3 - 10	ug/kg	SL-181-SA5DN	4 - 5

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Volatiles	Benzene	71-43-2	8260B	3 / 204	0.17 J Z	0.21 J Z	0.09 - 0.13	3.7 - 5.2	ug/kg	SL-003-SA5DN	0.5 - 1.5
Volatiles	Bromobenzene	108-86-1	8260B	0 / 204	-	-	0.12 - 0.17	3.7 - 5.2	ug/kg		-
Volatiles	Bromochloromethane	74-97-5	8260B	0 / 204	-	-	0.3 - 0.43	3.7 - 5.2	ug/kg		-
Volatiles	Bromodichloromethane	75-27-4	8260B	0 / 204	-	-	0.07 - 0.11	3.7 - 5.2	ug/kg		-
Volatiles	Bromoform	75-25-2	8260B	0 / 204	-	-	0.37 - 0.53	3.7 - 5.2	ug/kg		-
Volatiles	Bromomethane	74-83-9	8260B	0 / 204	-	-	0.23 - 0.33	3.7 - 5.2	ug/kg		-
Volatiles	Carbon tetrachloride	56-23-5	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	Chlorobenzene	108-90-7	8260B	0 / 204	-	-	0.1 - 0.14	3.7 - 5.2	ug/kg		-
Volatiles	Chloroethane	75-00-3	8260B	0 / 204	-	-	0.12 - 0.17	3.7 - 5.2	ug/kg		-
Volatiles	Chloroform	67-66-3	8260B	6 / 204	0.13 J Z	0.19 J Z	0.11 - 0.16	3.7 - 5.2	ug/kg	SL-053-SA5DN	4 - 5
Volatiles	Chloromethane	74-87-3	8260B	0 / 204	-	-	0.3 - 0.43	3.7 - 5.2	ug/kg		-
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	0 / 204	-	-	0.46 - 0.66	4.6 - 6.6	ug/kg		-
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	0 / 204	-	-	0.17 - 0.25	3.7 - 5.2	ug/kg		-
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	0 / 204	-	-	0.15 - 0.21	3.7 - 5.2	ug/kg		-
Volatiles	Dibromochloromethane	124-48-1	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	Dibromomethane	74-95-3	8260B	0 / 204	-	-	0.22 - 0.32	3.7 - 5.2	ug/kg		-
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	Ethylbenzene	100-41-4	8260B	0 / 204	-	-	0.05 - 0.08	3.7 - 5.2	ug/kg		-
Volatiles	Freon 113	76-13-1	8260B	1 / 204	0.19 J FD, Z	0.19 J FD, Z	0.1 - 0.14	3.7 - 5.2	ug/kg	SL-014-SA5DN	4 - 5
Volatiles	Freon 113a	75-88-7	8260B	0 / 204	-	-	0.46 - 0.66	4.6 - 6.6	ug/kg		-
Volatiles	Hexachlorobutadiene	87-68-3	8260B	0 / 204	-	-	0.13 - 0.18	3.7 - 5.2	ug/kg		-
Volatiles	Isopropylbenzene	98-82-8	8260B	0 / 204	-	-	0.05 - 0.08	3.7 - 5.2	ug/kg		-
Volatiles	Isopropyltoluene	99-87-6	8260B	0 / 204	-	-	0.1 - 0.14	3.7 - 5.2	ug/kg		-
Volatiles	m,p-Xylene	179601-23-1	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	0 / 204	-	-	0.19 - 0.28	3.7 - 5.2	ug/kg		-
Volatiles	Methylene chloride	75-09-2	8260B	31 / 204	4.5	130 J L	0.22 - 0.32	3.7 - 5.2	ug/kg	SL-158-SA5DN	4 - 5
Volatiles	N-Butylbenzene	104-51-8	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	N-Propylbenzene	103-65-1	8260B	0 / 204	-	-	0.06 - 0.09	3.7 - 5.2	ug/kg		-
Volatiles	o-Xylene	95-47-6	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	sec-Butylbenzene	135-98-8	8260B	0 / 204	-	-	0.05 - 0.08	3.7 - 5.2	ug/kg		-
Volatiles	Styrene	100-42-5	8260B	0 / 204	-	-	0.09 - 0.13	3.7 - 5.2	ug/kg		-
Volatiles	tert-Butylbenzene	98-06-6	8260B	0 / 204	-	-	0.15 - 0.21	3.7 - 5.2	ug/kg		-
Volatiles	Tetrachloroethene	127-18-4	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	Toluene	108-88-3	8260B	82 / 204	0.08 J Z	0.47 J Z	0.07 - 0.11	3.7 - 5.2	ug/kg	SL-035-SA5DN	4 - 5
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	0 / 204	-	-	0.11 - 0.16	3.7 - 5.2	ug/kg		-
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	0 / 204	-	-	0.16 - 0.22	3.7 - 5.2	ug/kg		-
Volatiles	Trichloroethene	79-01-6	8260B	0 / 204	-	-	0.14 - 0.2	3.7 - 5.2	ug/kg		-
Volatiles	Trichlorofluoromethane	75-69-4	8260B	0 / 204	-	-	0.27 - 0.38	3.7 - 5.2	ug/kg		-
Volatiles	Vinyl Chloride	75-01-4	8260B	0 / 204	-	-	0.18 - 0.26	3.7 - 5.2	ug/kg		-
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	0 / 204	-	-	4.4 - 7.9	13 - 24	ug/kg		-

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria

Table 3-3
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D North

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration

F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Fluoride	16984-48-8	300	21 / 32	0.93 J Q, Z	4.6 J Q	0.79 - 0.9	0.99 - 1.1	mg/kg	SL-001-SA5DS	0 - 0.5
Inorganic	Perchlorate	14797-73-0	314	1 / 32	683	683	9.1 - 10	30.2 - 33.4	ug/kg	SL-016-SA5DS	0 - 0.5
Inorganic	Perchlorate	14797-73-0	6850	1 / 3	2.3 J Z	2.3 J Z	2.1 - 2.2	5.1 - 5.1	ug/kg	SL-040-SA5DS	0 - 0.5
Inorganic	Chromium VI	18540-29-9	7199	20 / 32	0.21 J Z	1.7	0.19 - 0.22	0.97 - 1.1	mg/kg	SL-020-SA5DS	0 - 0.5
Inorganic	Percent Moisture	MOIST	160.3M	32 / 32	0.56	10.3	0.5 - 0.5	0.5 - 0.5	%	SL-006-SA5DS	0 - 0.5
Inorganic	Mercury	7439-97-6	7471A	18 / 32	0.0074 J Z	0.0877 J Z	0.0066 - 0.0078	0.0945 - 0.111	mg/kg	SL-038-SA5DS	0 - 0.5
Inorganic	pH	pH	9045M	32 / 32	5.66	7.61	0.01 - 0.01	0.01 - 0.01	pH unit	SL-034-SA5DS	0 - 0.5
Inorganic	Antimony	7440-36-0	6020	32 / 32	0.0922 J Q, Z	0.436 J Q	0.0715 - 0.0817	0.193 - 0.221	mg/kg	SL-001-SA5DS	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	32 / 32	2.8 J Q	9.83 J Q	0.0774 - 0.0883	0.387 - 0.442	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Barium	7440-39-3	6020	32 / 32	42.5	182	0.102 - 0.272	0.387 - 1.03	mg/kg	SL-034-SA5DS	0 - 0.5
Inorganic	Beryllium	7440-41-7	6020	32 / 32	0.243	1.16	0.0155 - 0.0177	0.0967 - 0.11	mg/kg	SL-034-SA5DS	0 - 0.5
Inorganic	Cadmium	7440-43-9	6020	32 / 32	0.125 J Q	0.362 J Q	0.0425 - 0.0486	0.0967 - 0.11	mg/kg	SL-028-SA5DS	0 - 0.5
Inorganic	Chromium	7440-47-3	6020	32 / 32	16.6 J Q	68.5 J A	0.116 - 0.132	0.387 - 0.442	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Cobalt	7440-48-4	6020	32 / 32	5.49	16.8	0.0193 - 0.0221	0.0967 - 0.11	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Copper	7440-50-8	6020	32 / 32	3.69	25.6 J Q	0.0774 - 0.0883	0.387 - 0.442	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Lead	7439-92-1	6020	32 / 32	5.33 J Q	40.1 J A	0.0099 - 0.0113	0.193 - 0.221	mg/kg	SL-001-SA5DS	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	32 / 32	0.313	0.839 J Q	0.0483 - 0.0552	0.0967 - 0.11	mg/kg	SL-013-SA5DS	0 - 0.5
Inorganic	Nickel	7440-02-0	6020	32 / 32	9.08	34.2 J Q, A	0.0967 - 0.11	0.387 - 0.442	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Selenium	7782-49-2	6020	32 / 32	0.0809 J Z	0.515 J Q	0.0561 - 0.064	0.387 - 0.442	mg/kg	SL-032-SA5DS	0 - 0.5
Inorganic	Silver	7440-22-4	6020	32 / 32	0.0152 J Z	0.351 J Q	0.0137 - 0.0157	0.0967 - 0.11	mg/kg	SL-028-SA5DS	0 - 0.5
Inorganic	Thallium	7440-28-0	6020	32 / 32	0.102	0.616 J Q	0.029 - 0.0331	0.0967 - 0.11	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Vanadium	7440-62-2	6020	32 / 32	34.9	136 J A	0.0213 - 0.0243	0.0967 - 0.11	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Zinc	7440-66-6	6020	32 / 32	43.2	138 J A	0.541 - 0.618	2.9 - 3.31	mg/kg	SL-030-SA5DS SL-031-SA5DS	0 - 0.5 0 - 0.5
Inorganic	Aluminum	7429-90-5	6010B	32 / 32	9970	31900	5.91 - 6.42	19.5 - 21.2	mg/kg	SL-034-SA5DS	0 - 0.5
Inorganic	Boron	7440-42-8	6010B	32 / 32	4.38 J Z	17.3	0.351 - 0.382	4.88 - 5.31	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Calcium	7440-70-2	6010B	32 / 32	2820	29800	2.44 - 2.65	19.5 - 21.2	mg/kg	SL-033-SA5DS	0 - 0.5
Inorganic	Iron	7439-89-6	6010B	32 / 32	17900	39000	2.55 - 13.5	19.5 - 104	mg/kg	SL-031-SA5DS	0 - 0.5
Inorganic	Lithium	7439-93-2	6010B	32 / 32	13.8	55.1	0.61 - 0.66	2 - 2.1	mg/kg	SL-029-SA5DS	0 - 0.5
Inorganic	Magnesium	7439-95-4	6010B	32 / 32	4310	10200	0.43 - 0.467	9.76 - 10.6	mg/kg	SL-029-SA5DS	0 - 0.5
Inorganic	Manganese	7439-96-5	6010B	32 / 32	227	399	0.0351 - 0.0382	0.488 - 0.531	mg/kg	SL-021-SA5DS	0 - 0.5
Inorganic	Phosphorus	7723-14-0	6010B	32 / 32	340	878	0.342 - 0.372	9.76 - 10.6	mg/kg	SL-001-SA5DS	0 - 0.5
Inorganic	Potassium	9-7-7440	6010B	32 / 32	1470	7340	11 - 12	48.8 - 53.1	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	32 / 32	69.5 J Z	199	5.81 - 6.32	97.6 - 106	mg/kg	SL-026-SA5DS	0 - 0.5
Inorganic	Strontium	7440-24-6	6010B	32 / 32	10.8	65.3	0.0244 - 0.0265	0.488 - 0.531	mg/kg	SL-033-SA5DS	0 - 0.5
Inorganic	Tin	7440-31-5	6010B	0 / 32	-	-	0.312 - 0.34	9.76 - 10.6	mg/kg		-
Inorganic	Titanium	7440-32-6	6010B	32 / 32	750	1710	0.0693 - 0.0754	0.976 - 1.06	mg/kg	SL-031-SA5DS	0 - 0.5
Inorganic	Zirconium	7440-67-7	6010B	31 / 32	0.97 J Z	12.5	0.449 - 0.488	4.88 - 5.31	mg/kg	SL-001-SA5DS	0 - 0.5
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 32	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 32	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 32	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	1 / 32	0.72 J Z	0.72 J Z	0.33 - 33	1.7 - 170	ug/kg	SL-038-SA5DS	0 - 0.5
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	0 / 32	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	25 / 32	0.51 J Z	1500	0.33 - 33	1.7 - 170	ug/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	19 / 32	0.52 J Z	9.3 J S	0.39 - 40	1.7 - 170	ug/kg	SL-017-SA5DS	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 32	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 32	-	-	0.33 - 33	1.7 - 170	ug/kg		-

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 32	-	-	1 - 100	3.3 - 330	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 32	-	-	1 - 100	3.3 - 330	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	20 / 32	1.2 J Z	5.9 J S	1 - 100	3.3 - 330	ug/kg	SL-017-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	31 / 32	0.444 J Z	13.6	0.026 - 0.373	4.83 - 49.2	ng/kg	SL-001-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	26 / 32	0.542 J Z	5.02 J Z	0.0153 - 0.315	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	7 / 32	0.128 J Z	4.1 J Z	0.021 - 0.32	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	27 / 32	0.0334 J Z	0.341 J Z	0.0227 - 0.285	4.83 - 49.2	ng/kg	SL-040-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	23 / 32	0.112 J Z	11.3 J Z	0.0139 - 0.498	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	28 / 32	0.0828 J Z	1.02 J Z	0.0223 - 0.283	4.83 - 49.2	ng/kg	SL-017-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	19 / 32	0.111 J Z	3.91 J Z	0.0127 - 0.433	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	28 / 32	0.127 J Z	1.32 J Z	0.0244 - 0.277	4.83 - 49.2	ng/kg	SL-010-SA5DS SL-006-SA5DS	0 - 0.5 0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	28 / 32	0.0578 J Z	3.86 J Z	0.018 - 0.406	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	27 / 32	0.049 J Z	0.412 J Z	0.0265 - 0.401	4.83 - 49.2	ng/kg	SL-004-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	28 / 32	0.13 J Z	3.87 J Z	0.0176 - 0.442	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	19 / 32	0.0401 J Z	4.4 J Z	0.0139 - 0.379	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	17 / 32	0.228 J Z	9.93 J Z	0.0168 - 0.396	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	11 / 32	0.0367 J Z	0.148 J Z	0.0271 - 0.426	0.967 - 9.85	ng/kg	SL-004-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	29 / 32	0.0574 J Z	1.1 J Z	0.029 - 0.791	0.967 - 9.85	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	32 / 32	2.21 J Z	146	0.0176 - 0.406	9.67 - 98.5	ng/kg	SL-014-SA5DS	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	31 / 32	0.613 J Z	8.98 J Z	0.0227 - 0.436	9.67 - 98.5	ng/kg	SL-026-SA5DS	0 - 0.5
Pesticides	4,4'-DDD	72-54-8	8081A	0 / 32	-	-	0.066 - 6.7	0.34 - 34	ug/kg		-
Pesticides	4,4'-DDE	72-55-9	8081A	19 / 32	0.1 J FD, Z	2.8	0.066 - 270	0.34 - 270	ug/kg	SL-002-SA5DS	0 - 0.5
Pesticides	4,4'-DDT	50-29-3	8081A	19 / 32	0.22 J FD, Z	7	0.066 - 33	0.34 - 170	ug/kg	SL-028-SA5DS	0 - 0.5
Pesticides	Aldrin	309-00-2	8081A	0 / 32	-	-	0.066 - 6.7	0.17 - 17	ug/kg		-
Pesticides	Alpha-BHC	319-84-6	8081A	2 / 32	0.076 J Z	0.09 J Z	0.034 - 3.4	0.17 - 17	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Beta-BHC	319-85-7	8081A	4 / 32	0.078 J Z	0.14 J Z	0.06 - 6.1	0.17 - 17	ug/kg	SL-002-SA5DS	0 - 0.5
Pesticides	Chlordane	57-74-9	8081A	25 / 32	0.9 J FD, Z	10 J Z	0.81 - 510	3.4 - 510	ug/kg	SL-028-SA5DS	0 - 0.5
Pesticides	Delta-BHC	319-86-8	8081A	6 / 32	0.038 J Z	0.35	0.036 - 3.7	0.17 - 17	ug/kg	SL-029-SA5DS	0 - 0.5
Pesticides	Dieldrin	60-57-1	8081A	0 / 32	-	-	0.067 - 50	0.34 - 50	ug/kg		-
Pesticides	Endosulfan I	959-98-8	8081A	1 / 32	0.089 J Z	0.089 J Z	0.044 - 4.5	0.17 - 17	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Endosulfan II	33213-65-9	8081A	1 / 32	0.4	0.4	0.067 - 46	0.34 - 46	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	0 / 32	-	-	0.066 - 6.7	0.34 - 34	ug/kg		-
Pesticides	Endrin	72-20-8	8081A	0 / 32	-	-	0.066 - 59	0.34 - 59	ug/kg		-
Pesticides	Endrin Aldehyde	7421-93-4	8081A	7 / 32	0.086 J Z	0.99 J S	0.066 - 28	0.34 - 34	ug/kg	SL-017-SA5DS	0 - 0.5
Pesticides	Endrin Ketone	53494-70-5	8081A	1 / 32	0.097 J Z	0.097 J Z	0.067 - 6.7	0.34 - 34	ug/kg	SL-022-SA5DS	0 - 0.5
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	5 / 32	0.038 J FD, Z	0.18	0.034 - 3.4	0.17 - 17	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Heptachlor	76-44-8	8081A	1 / 32	0.077 J Z	0.077 J Z	0.06 - 6.1	0.17 - 17	ug/kg	SL-016-SA5DS	0 - 0.5
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	0 / 32	-	-	0.034 - 83	0.17 - 83	ug/kg		-
Pesticides	Methoxychlor	72-43-5	8081A	1 / 32	0.81 J Z	0.81 J Z	0.34 - 34	1.7 - 170	ug/kg	SL-032-SA5DS	0 - 0.5
Pesticides	Mirex	2385-85-5	8081A	0 / 32	-	-	0.067 - 31	0.34 - 34	ug/kg		-
Pesticides	Toxaphene	8001-35-2	8081A	4 / 32	2.6 J Z	15	2.2 - 1400	6.7 - 1400	ug/kg	SL-002-SA5DS	0 - 0.5
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	0 / 31	-	-	4.4 - 4.6	9 - 9.4	ug/kg		-
Pesticides	2,4 DB	94-82-6	8151A	8 / 31	1.7 J Z	8.8	0.62 - 100	1.7 - 100	ug/kg	SL-022-SA5DS	0 - 0.5
Pesticides	2,4,5-T	93-76-5	8151A	4 / 31	0.15 J Z	1.9	0.082 - 0.85	0.17 - 0.85	ug/kg	SL-024-SA5DS	0 - 0.5
Pesticides	2,4,5-TP	93-72-1	8151A	15 / 31	0.09 J Z	0.78	0.075 - 0.25	0.17 - 0.25	ug/kg	SL-025-SA5DS	0 - 0.5
Pesticides	2,4-D	94-75-7	8151A	1 / 31	4.2	4.2	1.2 - 3.6	3.6 - 3.8	ug/kg	SL-022-SA5DS	0 - 0.5

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Pesticides	Dicamba	1918-00-9	8151A	1 / 31	0.61 J Z	0.61 J Z	0.4 - 0.97	1.2 - 1.3	ug/kg	SL-038-SA5DS	0 - 0.5
Pesticides	Dichlorprop	120-36-5	8151A	2 / 31	1 J Z	1.6 J Z	0.8 - 1.3	1.7 - 1.8	ug/kg	SL-038-SA5DS	0 - 0.5
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	1 / 31	0.86 J L, Z	0.86 J L, Z	0.8 - 0.84	2.4 - 2.5	ug/kg	SL-026-SA5DS	0 - 0.5
Pesticides	MCPA	94-74-6	8151A	2 / 31	120 J Z	870	76 - 170	250 - 260	ug/kg	SL-038-SA5DS	0 - 0.5
Pesticides	MCPP	93-65-2	8151A	0 / 31	-	-	75 - 130	250 - 260	ug/kg		-
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 32	-	-	330 - 17000	1000 - 50000	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 32	-	-	100 - 5000	330 - 17000	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 32	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 32	-	-	66 - 3300	170 - 8300	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 32	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 32	-	-	66 - 3300	170 - 8300	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 32	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Aniline	62-53-3	8270C	0 / 32	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Benzidine	92-87-5	8270C	0 / 32	-	-	1200 - 58000	3300 - 170000	ug/kg		-
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	1 / 1	1400 J Z	1400 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	1 / 1	1400 J Z	1400 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	1 / 1	1100 J Z	1100 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzoic Acid	65-85-0	8270C	0 / 32	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 32	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	3 / 3	18 J Z	19 J Z	17 - 17	340 - 340	ug/kg	SL-005-SA5DS	0 - 0.5
Semivolatiles	Carbazole	86-74-8	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Chrysene	218-01-9	8270C	1 / 1	1500 J Z	1500 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Fluoranthene	206-44-0	8270C	2 / 2	36 J Z	1100 J Z	17 - 830	170 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 32	-	-	66 - 3300	170 - 8300	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 32	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Isophorone	78-59-1	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 32	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 32	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	1 / 1	35 J Z	35 J Z	17 - 17	170 - 170	ug/kg	SL-001-SA5DS	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	4 / 32	18 J Z	20 J Z	17 - 830	170 - 8300	ug/kg	SL-031-SA5DS	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C	2 / 2	24 J Z	1300 J Z	17 - 830	170 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	2 / 32	0.78 J Z	0.84 J Z	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-032-SA5DS	0 - 0.5
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	4 / 32	0.7 J Z	1.2 J Z	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-004-SA5DS	0 - 0.5
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	1 / 32	11	11	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	2 / 32	0.48 J Z	2.9	0.33 - 1.7	1.7 - 8.4	ug/kg	SL-030-SA5DS	0 - 0.5
Semivolatiles	Anthracene	120-12-7	8270C SIM	2 / 32	0.57 J Z	25	0.33 - 1.7	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	16 / 32	0.68 J Z	180	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	21 / 31	0.74 J Z	6.8	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-032-SA5DS	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	29 / 31	0.96 J Z	34	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-027-SA5DS	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	9 / 31	0.68 J Z	1.4 J Z	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-025-SA5DS	0 - 0.5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	7 / 32	0.72 J Z	150	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	24 / 29	6.5 J Z	130	6 - 30	18 - 90	ug/kg	SL-014-SA5DS	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	9 / 32	6.6 J Z	200	6 - 30	18 - 90	ug/kg	SL-030-SA5DS	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C SIM	28 / 31	0.36 J Z	20	0.33 - 1.7	1.7 - 8.4	ug/kg	SL-027-SA5DS	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	2 / 32	1 J Z	27	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	0 / 32	-	-	6 - 30	18 - 90	ug/kg		-
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	0 / 32	-	-	6 - 30	18 - 90	ug/kg		-
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	0 / 32	-	-	6 - 30	18 - 90	ug/kg		-
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	5 / 32	6.9 J FD, Z	25	6 - 30	18 - 90	ug/kg	SL-030-SA5DS	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	24 / 30	0.86 J Z	12	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-032-SA5DS	0 - 0.5
Semivolatiles	Fluorene	86-73-7	8270C SIM	5 / 32	0.81 J Z	6.7	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	10 / 32	0.67 J Z	78	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Naphthalene	91-20-3	8270C SIM	19 / 32	0.69 J Z	3.5	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-004-SA5DS	0 - 0.5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 32	-	-	0.66 - 3.3	1.7 - 8.4	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	22 / 31	0.75 J Z	99	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C SIM	25 / 30	0.82 J Z	12	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-032-SA5DS	0 - 0.5

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limit

Table 3-4
Summary of Analytical Results for Chemicals - Validated Data
Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration

L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Fluoride	16984-48-8	300	27 / 27	1.2 J Q	25 J Q	0.85 - 0.96	1.1 - 1.2	mg/kg	SL-040-SA5DS	4 - 5
Inorganic	Nitrate	14797-55-8	300	3 / 3	3	3.6	0.85 - 0.9	1.6 - 1.7	mg/kg	SL-010-SA5DS	2 - 3
Inorganic	Perchlorate	14797-73-0	314	0 / 27	-	-	9.5 - 10.6	31.7 - 35.5	ug/kg		-
Inorganic	Perchlorate	14797-73-0	6850	1 / 3	4.1 J L, Z	4.1 J L, Z	2.3 - 2.3	5.4 - 5.5	ug/kg	SL-028-SA5DS	1.9 - 2.9
Inorganic	Chromium VI	18540-29-9	7199	17 / 27	0.23 J Z	3.2	0.21 - 0.24	1.1 - 1.2	mg/kg	SL-040-SA5DS	4 - 5
Inorganic	Percent Moisture	MOIST	160.3M	27 / 27	5.3	15.4	0.5 - 0.5	0.5 - 0.5	%	SL-037-SA5DS	9 - 10
Inorganic	Mercury	7439-97-6	7471A	2 / 27	0.0091 J Z	0.0157 J Z	0.007 - 0.0079	0.0994 - 0.112	mg/kg	SL-021-SA5DS	2 - 3
Inorganic	Cyanide	57-12-5	9012B	0 / 3	-	-	0.19 - 0.19	0.52 - 0.54	mg/kg		-
Inorganic	pH	pH	9045M	27 / 27	5.9	8.59	0.01 - 0.01	0.01 - 0.01	pH unit	SL-039-SA5DS	3 - 4
Inorganic	Antimony	7440-36-0	6020	18 / 27	0.0827 J Q, Z	0.378 J Q	0.0747 - 0.204	0.202 - 0.55	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Arsenic	7440-38-2	6020	27 / 27	4.26	10.4	0.0808 - 0.22	0.404 - 1.1	mg/kg	SL-036-SA5DS	4 - 5
Inorganic	Barium	7440-39-3	6020	27 / 27	38.2 J E	199 J A	0.107 - 0.292	0.404 - 1.1	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Beryllium	7440-41-7	6020	27 / 27	0.469 J E, Q	1.27	0.0162 - 0.044	0.101 - 0.275	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Cadmium	7440-43-9	6020	26 / 27	0.0551 J Z	0.214	0.0444 - 0.121	0.101 - 0.275	mg/kg	SL-002-SA5DS	1.8 - 2.8
Inorganic	Chromium	7440-47-3	6020	27 / 27	27.9 J Q, A	51.3 J Q, E	0.121 - 0.33	0.404 - 1.1	mg/kg	SL-005-SA5DS	1 - 2
Inorganic	Cobalt	7440-48-4	6020	27 / 27	3.85 J E	25.6	0.0202 - 0.055	0.101 - 0.275	mg/kg	SL-034-SA5DS	9 - 10
Inorganic	Copper	7440-50-8	6020	27 / 27	3.83 J Q, E	32.6 J A	0.0808 - 0.22	0.404 - 1.1	mg/kg	SL-036-SA5DS	4 - 5
Inorganic	Lead	7439-92-1	6020	27 / 27	4.57 J E	17.3 J Q, A	0.0103 - 0.0281	0.202 - 0.55	mg/kg	SL-036-SA5DS	4 - 5
Inorganic	Molybdenum	7439-98-7	6020	24 / 27	0.165	0.872	0.0505 - 0.138	0.101 - 0.275	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Nickel	7440-02-0	6020	27 / 27	9.74 J Q, E	30.5 J A	0.101 - 0.275	0.404 - 1.1	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Selenium	7782-49-2	6020	27 / 27	0.103 J E, Z	0.344 J Z	0.0586 - 0.0672	0.404 - 0.464	mg/kg	SL-026-SA5DS	9 - 10
Inorganic	Silver	7440-22-4	6020	22 / 27	0.0159 J Q, E, Z	0.0479 J Z	0.0143 - 0.0391	0.101 - 0.275	mg/kg	SL-037-SA5DS	4 - 5
Inorganic	Thallium	7440-28-0	6020	27 / 27	0.101 J Q, E, Z	0.594	0.0303 - 0.0826	0.101 - 0.275	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Vanadium	7440-62-2	6020	27 / 27	56.7 J A	99.3 J E	0.0222 - 0.0605	0.101 - 0.275	mg/kg	SL-034-SA5DS	4 - 5
Inorganic	Zinc	7440-66-6	6020	27 / 27	37.3 J Q, E	109	0.566 - 1.54	3.03 - 8.26	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Aluminum	7429-90-5	6010B	27 / 27	14800	40000	6.2 - 6.94	20.5 - 23	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Boron	7440-42-8	6010B	21 / 27	2 J Z	20	0.369 - 0.413	5.13 - 5.74	mg/kg	SL-031-SA5DS	9 - 10
Inorganic	Calcium	7440-70-2	6010B	27 / 27	2690	34600	2.56 - 2.87	20.5 - 23	mg/kg	SL-038-SA5DS	4 - 5
Inorganic	Iron	7439-89-6	6010B	27 / 27	23800	44600 J Q	2.68 - 14.9	20.5 - 114	mg/kg	SL-031-SA5DS	9 - 10
Inorganic	Lithium	7439-93-2	6010B	27 / 27	13	52.9	0.64 - 0.71	2.1 - 2.3	mg/kg	SL-026-SA5DS	9 - 10
Inorganic	Magnesium	7439-95-4	6010B	27 / 27	3710	10700	0.451 - 0.505	10.3 - 11.5	mg/kg	SL-031-SA5DS	9 - 10
Inorganic	Manganese	7439-96-5	6010B	27 / 27	164	3560	0.0369 - 0.189	0.513 - 2.62	mg/kg	SL-021-SA5DS	2 - 3
Inorganic	Phosphorus	7723-14-0	6010B	27 / 27	152	868	0.359 - 0.402	10.3 - 11.5	mg/kg	SL-005-SA5DS	1 - 2
Inorganic	Potassium	9-7-7440	6010B	27 / 27	1160	6250 J Q	11.6 - 13	51.3 - 57.4	mg/kg	SL-026-SA5DS	9 - 10
Inorganic	Sodium	7440-23-5	6010B	27 / 27	85.6 J Z	903	6.1 - 6.83	103 - 115	mg/kg	SL-040-SA5DS	4 - 5
Inorganic	Strontium	7440-24-6	6010B	27 / 27	17.7	91	0.0256 - 0.0287	0.513 - 0.574	mg/kg	SL-039-SA5DS	3 - 4
Inorganic	Tin	7440-31-5	6010B	1 / 27	22	22	0.328 - 0.367	10.3 - 11.5	mg/kg	SL-028-SA5DS	1.9 - 2.9
Inorganic	Titanium	7440-32-6	6010B	27 / 27	827	1870	0.0728 - 0.0815	1.03 - 1.15	mg/kg	SL-034-SA5DS	9 - 10
Inorganic	Zirconium	7440-67-7	6010B	27 / 27	4.05 J Z	15	0.472 - 0.528	5.13 - 5.74	mg/kg	SL-010-SA5DS	2 - 3
Misc. Organics	2-Propanol	67-63-0	8015B	0 / 3	-	-	110 - 110	530 - 560	ug/kg		-
Misc. Organics	Ethanol	64-17-5	8015B	0 / 3	-	-	110 - 110	530 - 560	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	0 / 3	-	-	110 - 110	530 - 560	ug/kg		-
Misc. Organics	m-Terphenyl	92-06-8	8015B	0 / 3	-	-	1.6 - 1.7	3.7 - 3.9	mg/kg		-
Misc. Organics	o-Terphenyl	84-15-1	8015B	0 / 3	-	-	1.6 - 1.7	3.7 - 3.9	mg/kg		-
Misc. Organics	p-Terphenyl	92-94-4	8015B	0 / 3	-	-	1.6 - 1.7	3.7 - 3.9	mg/kg		-
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 3	-	-	5.3 - 5.6	11 - 11	mg/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	0 / 3	-	-	5.3 - 5.6	11 - 11	mg/kg		-
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 3	-	-	5.3 - 5.6	11 - 11	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	0 / 3	-	-	630 - 670	1600 - 1700	ug/kg		-
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 3	-	-	83 - 89	250 - 270	ug/kg		-

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 3	-	-	83 - 89	250 - 270	ug/kg		-
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 3	-	-	83 - 89	120 - 130	ug/kg		-
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 3	-	-	100 - 110	120 - 130	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 3	-	-	62 - 67	120 - 130	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 3	-	-	83 - 89	120 - 130	ug/kg		-
Misc. Organics	HMX	2691-41-0	8330A	0 / 3	-	-	100 - 110	310 - 330	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 3	-	-	830 - 890	2500 - 2700	ug/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 3	-	-	830 - 890	2500 - 2700	ug/kg		-
Misc. Organics	RDX	121-82-4	8330A	0 / 3	-	-	52 - 56	120 - 130	ug/kg		-
Misc. Organics	Tetryl	479-45-8	8330A	0 / 3	-	-	64 - 68	120 - 130	ug/kg		-
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 27	-	-	0.35 - 0.39	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 27	-	-	0.35 - 0.39	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 27	-	-	0.35 - 0.39	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	0 / 27	-	-	0.35 - 0.39	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	0 / 27	-	-	0.35 - 0.39	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	5 / 27	0.65 J L, Z	9.8 J S	0.35 - 0.39	1.8 - 2	ug/kg	SL-029-SA5DS	3.5 - 4.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	1 / 27	0.95 J Z	0.95 J Z	0.41 - 0.46	1.8 - 2	ug/kg	SL-028-SA5DS	1.9 - 2.9
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 27	-	-	0.35 - 0.39	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 27	-	-	0.35 - 0.39	1.8 - 2	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 27	-	-	1.1 - 1.2	3.5 - 3.9	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 27	-	-	1.1 - 1.2	3.5 - 3.9	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	0 / 27	-	-	1.1 - 1.2	3.5 - 3.9	ug/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	0 / 27	-	-	0.0181 - 0.0359	5.21 - 5.83	ng/kg		-
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	0 / 27	-	-	0.00919 - 0.0171	5.21 - 5.83	ng/kg		-
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	0 / 27	-	-	0.0134 - 0.0234	5.21 - 5.83	ng/kg		-
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	4 / 27	0.0219 J Z	0.03 J Z	0.0171 - 0.0364	5.21 - 5.83	ng/kg	SL-010-SA5DS	2 - 3
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	6 / 27	0.0316 J Z	0.145 J Z	0.0115 - 0.0264	5.21 - 5.83	ng/kg	SL-028-SA5DS	1.9 - 2.9
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	14 / 27	0.023 J Z	0.286 J Z	0.0171 - 0.0369	5.21 - 5.83	ng/kg	SL-036-SA5DS	9 - 10
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	3 / 27	0.117 J Z	0.281 J Z	0.00986 - 0.0235	5.21 - 5.83	ng/kg	SL-036-SA5DS	4 - 5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	11 / 27	0.0841 J Z	0.69 J Z	0.0171 - 0.036	5.21 - 5.83	ng/kg	SL-036-SA5DS	9 - 10
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	4 / 27	0.222 J Z	0.725 J Z	0.012 - 0.0258	5.21 - 5.83	ng/kg	SL-036-SA5DS	9 - 10
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	8 / 27	0.0265 J Z	0.391 J Z	0.0207 - 0.045	5.21 - 5.83	ng/kg	SL-036-SA5DS	4 - 5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	6 / 27	0.0832 J Z	0.479 J Z	0.00997 - 0.0343	5.21 - 5.83	ng/kg	SL-036-SA5DS	4 - 5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	0 / 27	-	-	0.00986 - 0.0213	5.21 - 5.83	ng/kg		-
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	2 / 27	0.285 J Z	0.357 J Z	0.00954 - 0.032	5.21 - 5.83	ng/kg	SL-036-SA5DS	4 - 5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	7 / 27	0.0258 J Z	0.114 J Z	0.0243 - 0.0568	1.04 - 1.17	ng/kg	SL-037-SA5DS	4 - 5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	12 / 27	0.0249 J Z	0.242 J Z	0.0187 - 0.0688	1.04 - 1.17	ng/kg	SL-028-SA5DS	1.9 - 2.9
PCBs and Dioxins	OCDD	3268-87-9	1613B	9 / 27	1.92 J Z	6.06 J Z	0.0194 - 0.0418	10.4 - 11.7	ng/kg	SL-005-SA5DS	1 - 2
PCBs and Dioxins	OCDF	39001-02-0	1613B	0 / 27	-	-	0.0233 - 0.0579	10.4 - 11.7	ng/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	0 / 3	-	-	17.6 - 18.4	35.2 - 36.8	ng/kg		-
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 27	-	-	350 - 390	1000 - 1200	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 27	-	-	100 - 120	350 - 390	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 27	-	-	170 - 190	520 - 580	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 27	-	-	69 - 78	170 - 190	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 27	-	-	35 - 39	170 - 190	ug/kg		-
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 27	-	-	69 - 78	170 - 190	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 27	-	-	170 - 190	520 - 580	ug/kg		-
Semivolatiles	Aniline	62-53-3	8270C	0 / 27	-	-	170 - 190	520 - 580	ug/kg		-
Semivolatiles	Benzidine	92-87-5	8270C	0 / 27	-	-	1200 - 1400	3500 - 3900	ug/kg		-
Semivolatiles	Benzoic Acid	65-85-0	8270C	3 / 27	200 J Z	1200	170 - 190	520 - 580	ug/kg	SL-013-SA5DS	4 - 5
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 27	-	-	170 - 190	520 - 580	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	1 / 1	27 J Z	27 J Z	19 - 19	390 - 390	ug/kg	SL-037-SA5DS	9 - 10
Semivolatiles	Carbazole	86-74-8	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 27	-	-	69 - 78	170 - 190	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 27	-	-	170 - 190	520 - 580	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Isophorone	78-59-1	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 27	-	-	170 - 190	520 - 580	ug/kg		-
Semivolatiles	Phenol	108-95-2	8270C	0 / 27	-	-	17 - 19	170 - 190	ug/kg		-
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	0 / 27	-	-	0.69 - 0.79	1.7 - 2	ug/kg		-
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	0 / 27	-	-	0.69 - 0.79	1.7 - 2	ug/kg		-
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	1 / 27	1 J S, Z	1 J S, Z	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	1 / 27	0.9 J S, Z	0.9 J S, Z	0.35 - 0.39	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Anthracene	120-12-7	8270C SIM	4 / 27	0.43 J Z	11 J S	0.35 - 0.39	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	2 / 27	2.6	15 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	2 / 27	2.3	12 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	4 / 27	0.72 J Z	13 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	2 / 27	1.8	10 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	2 / 27	2.8	13 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	16 / 26	7.1 J Z	27 J S	6.2 - 6.9	19 - 21	ug/kg	SL-022-SA5DS	4 - 5

Table 3-5
Summary of Analytical Results for Chemicals - Validated Data
Subsurface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	5 / 27	8.5 J Z	17 J S, Z	6.2 - 7.1	19 - 21	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Chrysene	218-01-9	8270C SIM	6 / 27	0.53 J Z	14 J S	0.35 - 0.39	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	2 / 27	1.7 J Z	11 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	1 / 27	10 J S, Z	10 J S, Z	6.2 - 7.1	19 - 21	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	1 / 27	6.3 J S, Z	6.3 J S, Z	6.2 - 7.1	19 - 21	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	5 / 27	7.7 J Z	19 J S	6.2 - 7.1	19 - 21	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	2 / 27	9.5 J Z	18 J S, Z	6.2 - 7.1	19 - 21	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	4 / 27	0.89 J Z	15 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Fluorene	86-73-7	8270C SIM	2 / 27	0.71 J Z	4.1 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	2 / 27	1.7 J Z	11 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Naphthalene	91-20-3	8270C SIM	1 / 27	0.83 J Z	0.83 J Z	0.69 - 0.79	1.7 - 2	ug/kg	SL-031-SA5DS	9 - 10
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 27	-	-	0.69 - 0.79	1.7 - 2	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	3 / 27	0.85 J Z	10 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Pyrene	129-00-0	8270C SIM	4 / 27	0.73 J Z	12 J S	0.69 - 0.79	1.7 - 2	ug/kg	SL-022-SA5DS	4 - 5
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	0 / 3	-	-	0.42 - 0.45	1.3 - 1.3	mg/kg		-
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	0 / 3	-	-	0.42 - 0.45	1.3 - 1.3	mg/kg		-
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	2 / 3	1.2 J Z	3.3	0.42 - 0.45	1.3 - 1.3	mg/kg	SL-005-SA5DS	1 - 2
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	3 / 3	1.6	8.5	0.42 - 0.45	1.3 - 1.3	mg/kg	SL-005-SA5DS	1 - 2
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	0 / 3	-	-	0.42 - 0.45	1.3 - 1.3	mg/kg		-
Volatiles	GRO (C5-C12)	GROC5C12	8015M	0 / 3	-	-	0.2 - 0.4	1.2 - 2.2	mg/kg		-

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limi

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Inorganic	Fluoride	16984-48-8	300	48 / 59	0.93 J Q, Z	25 J Q	0.79 - 0.96	0.99 - 1.2	mg/kg	SL-040-SA5DS	4 - 5
Inorganic	Nitrate	14797-55-8	300	3 / 3	3	3.6	0.85 - 0.9	1.6 - 1.7	mg/kg	SL-010-SA5DS	2 - 3
Inorganic	Perchlorate	14797-73-0	6850	2 / 6	2.3 J Z	4.1 J L, Z	2.1 - 2.3	5.1 - 5.5	ug/kg	SL-028-SA5DS	1.89999998 - 2.9
Inorganic	Perchlorate	14797-73-0	314	1 / 59	683	683	9.1 - 10.6	30.2 - 35.5	ug/kg	SL-016-SA5DS	0 - 0.5
Inorganic	Mercury	7439-97-6	7471A	20 / 59	0.0074 J Z	0.0877 J Z	0.0066 - 0.0079	0.0945 - 0.112	mg/kg	SL-038-SA5DS	0 - 0.5
Inorganic	Cyanide	57-12-5	9012B	0 / 3	-	-	0.19 - 0.19	0.52 - 0.54	mg/kg		-
Inorganic	Chromium VI	18540-29-9	7199	37 / 59	0.21 J Z	3.2	0.19 - 0.24	0.97 - 1.2	mg/kg	SL-040-SA5DS	4 - 5
Inorganic	Percent Moisture	MOIST	160.3M	59 / 59	0.56	15.4	0.5 - 0.5	0.5 - 0.5	%	SL-037-SA5DS	9 - 10
Inorganic	pH	pH	9045M	59 / 59	5.66	8.59	0.01 - 0.01	0.01 - 0.01	pH unit	SL-039-SA5DS	3 - 4
Inorganic	Antimony	7440-36-0	6020	50 / 59	0.0827 J Q, Z	0.436 J Q	0.0715 - 0.204	0.193 - 0.55	mg/kg	SL-001-SA5DS	0 - 0.5
Inorganic	Arsenic	7440-38-2	6020	59 / 59	2.8 J Q	10.4	0.0774 - 0.22	0.387 - 1.1	mg/kg	SL-036-SA5DS	4 - 5
Inorganic	Barium	7440-39-3	6020	59 / 59	38.2 J E	199 J A	0.102 - 0.292	0.387 - 1.1	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Beryllium	7440-41-7	6020	59 / 59	0.243	1.27	0.0155 - 0.044	0.0967 - 0.275	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Cadmium	7440-43-9	6020	58 / 59	0.0551 J Z	0.362 J Q	0.0425 - 0.121	0.0967 - 0.275	mg/kg	SL-028-SA5DS	0 - 0.5
Inorganic	Chromium	7440-47-3	6020	59 / 59	16.6 J Q	68.5 J A	0.116 - 0.33	0.387 - 1.1	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Cobalt	7440-48-4	6020	59 / 59	3.85 J E	25.6	0.0193 - 0.055	0.0967 - 0.275	mg/kg	SL-034-SA5DS	9 - 10
Inorganic	Copper	7440-50-8	6020	59 / 59	3.69	32.6 J A	0.0774 - 0.22	0.387 - 1.1	mg/kg	SL-036-SA5DS	4 - 5
Inorganic	Lead	7439-92-1	6020	59 / 59	4.57 J E	40.1 J A	0.0099 - 0.0281	0.193 - 0.55	mg/kg	SL-001-SA5DS	0 - 0.5
Inorganic	Molybdenum	7439-98-7	6020	56 / 59	0.165	0.872	0.0483 - 0.138	0.0967 - 0.275	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Nickel	7440-02-0	6020	59 / 59	9.08	34.2 J Q, A	0.0967 - 0.275	0.387 - 1.1	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Selenium	7782-49-2	6020	59 / 59	0.0809 J Z	0.515 J Q	0.0561 - 0.0672	0.387 - 0.464	mg/kg	SL-032-SA5DS	0 - 0.5
Inorganic	Silver	7440-22-4	6020	54 / 59	0.0152 J Z	0.351 J Q	0.0137 - 0.0391	0.0967 - 0.275	mg/kg	SL-028-SA5DS	0 - 0.5
Inorganic	Thallium	7440-28-0	6020	59 / 59	0.101 J Q, E, Z	0.616 J Q	0.029 - 0.0826	0.0967 - 0.275	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Vanadium	7440-62-2	6020	59 / 59	34.9	136 J A	0.0213 - 0.0605	0.0967 - 0.275	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Zinc	7440-66-6	6020	59 / 59	37.3 J Q, E	138 J A	0.541 - 1.54	2.9 - 8.26	mg/kg	SL-030-SA5DS SL-031-SA5DS	0 - 0.5 0 - 0.5
Inorganic	Aluminum	7429-90-5	6010B	59 / 59	9970	40000	5.91 - 6.94	19.5 - 23	mg/kg	SL-037-SA5DS	9 - 10
Inorganic	Boron	7440-42-8	6010B	53 / 59	2 J Z	20	0.351 - 0.413	4.88 - 5.74	mg/kg	SL-031-SA5DS	9 - 10
Inorganic	Calcium	7440-70-2	6010B	59 / 59	2690	34600	2.44 - 2.87	19.5 - 23	mg/kg	SL-038-SA5DS	4 - 5
Inorganic	Iron	7439-89-6	6010B	59 / 59	17900	44600 J Q	2.55 - 14.9	19.5 - 114	mg/kg	SL-031-SA5DS	9 - 10
Inorganic	Lithium	7439-93-2	6010B	59 / 59	13	55.1	0.61 - 0.71	2 - 2.3	mg/kg	SL-029-SA5DS	0 - 0.5
Inorganic	Magnesium	7439-95-4	6010B	59 / 59	3710	10700	0.43 - 0.505	9.76 - 11.5	mg/kg	SL-031-SA5DS	9 - 10
Inorganic	Manganese	7439-96-5	6010B	59 / 59	164	3560	0.0351 - 0.189	0.488 - 2.62	mg/kg	SL-021-SA5DS	2 - 3
Inorganic	Phosphorus	7723-14-0	6010B	59 / 59	152	878	0.342 - 0.402	9.76 - 11.5	mg/kg	SL-001-SA5DS	0 - 0.5
Inorganic	Potassium	9-7-7440	6010B	59 / 59	1160	7340	11 - 13	48.8 - 57.4	mg/kg	SL-030-SA5DS	0 - 0.5
Inorganic	Sodium	7440-23-5	6010B	59 / 59	69.5 J Z	903	5.81 - 6.83	97.6 - 115	mg/kg	SL-040-SA5DS	4 - 5
Inorganic	Strontium	7440-24-6	6010B	59 / 59	10.8	91	0.0244 - 0.0287	0.488 - 0.574	mg/kg	SL-039-SA5DS	3 - 4
Inorganic	Tin	7440-31-5	6010B	1 / 59	22	22	0.312 - 0.367	9.76 - 11.5	mg/kg	SL-028-SA5DS	1.89999998 - 2.9
Inorganic	Titanium	7440-32-6	6010B	59 / 59	750	1870	0.0693 - 0.0815	0.976 - 1.15	mg/kg	SL-034-SA5DS	9 - 10
Inorganic	Zirconium	7440-67-7	6010B	58 / 59	0.97 J Z	15	0.449 - 0.528	4.88 - 5.74	mg/kg	SL-010-SA5DS	2 - 3
Misc. Organics	2-Propanol	67-63-0	8015B	0 / 3	-	-	110 - 110	530 - 560	ug/kg		-
Misc. Organics	Ethanol	64-17-5	8015B	0 / 3	-	-	110 - 110	530 - 560	ug/kg		-
Misc. Organics	Methanol	67-56-1	8015B	0 / 3	-	-	110 - 110	530 - 560	ug/kg		-
Misc. Organics	m-Terphenyl	92-06-8	8015B	0 / 3	-	-	1.6 - 1.7	3.7 - 3.9	mg/kg		-
Misc. Organics	o-Terphenyl	84-15-1	8015B	0 / 3	-	-	1.6 - 1.7	3.7 - 3.9	mg/kg		-
Misc. Organics	p-Terphenyl	92-94-4	8015B	0 / 3	-	-	1.6 - 1.7	3.7 - 3.9	mg/kg		-
Misc. Organics	Diethylene Glycol	111-46-6	8015M	0 / 3	-	-	5.3 - 5.6	11 - 11	mg/kg		-
Misc. Organics	Ethylene Glycol	107-21-1	8015M	0 / 3	-	-	5.3 - 5.6	11 - 11	mg/kg		-
Misc. Organics	Propylene glycol	57-55-6	8015M	0 / 3	-	-	5.3 - 5.6	11 - 11	mg/kg		-
Misc. Organics	Formaldehyde	50-00-0	8315A	0 / 3	-	-	630 - 670	1600 - 1700	ug/kg		-
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	0 / 3	-	-	83 - 89	250 - 270	ug/kg		-
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	0 / 3	-	-	83 - 89	250 - 270	ug/kg		-
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	0 / 3	-	-	83 - 89	120 - 130	ug/kg		-
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	0 / 3	-	-	100 - 110	120 - 130	ug/kg		-
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	0 / 3	-	-	62 - 67	120 - 130	ug/kg		-
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	0 / 3	-	-	83 - 89	120 - 130	ug/kg		-
Misc. Organics	HMX	2691-41-0	8330A	0 / 3	-	-	100 - 110	310 - 330	ug/kg		-
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	Nitrobenzene	98-95-3	8330A	0 / 3	-	-	42 - 45	120 - 130	ug/kg		-
Misc. Organics	Nitroglycerin	55-63-0	8330A	0 / 3	-	-	830 - 890	2500 - 2700	ug/kg		-
Misc. Organics	PETN	78-11-5	8330A	0 / 3	-	-	830 - 890	2500 - 2700	ug/kg		-
Misc. Organics	RDX	121-82-4	8330A	0 / 3	-	-	52 - 56	120 - 130	ug/kg		-
Misc. Organics	Tetryl	479-45-8	8330A	0 / 3	-	-	64 - 68	120 - 130	ug/kg		-
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	0 / 59	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	0 / 59	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	0 / 59	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	1 / 59	0.72 J Z	0.72 J Z	0.33 - 33	1.7 - 170	ug/kg	SL-038-SA5DS	0 - 0.5
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	0 / 59	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	30 / 59	0.51 J Z	1500	0.33 - 33	1.7 - 170	ug/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	20 / 59	0.52 J Z	9.3 J S	0.39 - 40	1.7 - 170	ug/kg	SL-017-SA5DS	0 - 0.5
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	0 / 59	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	0 / 59	-	-	0.33 - 33	1.7 - 170	ug/kg		-
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	0 / 59	-	-	1 - 100	3.3 - 330	ug/kg		-
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	0 / 59	-	-	1 - 100	3.3 - 330	ug/kg		-
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	20 / 59	1.2 J Z	5.9 J S	1 - 100	3.3 - 330	ug/kg	SL-017-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	31 / 59	0.444 J Z	13.6	0.0181 - 0.373	4.83 - 49.2	ng/kg	SL-001-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	26 / 59	0.542 J Z	5.02 J Z	0.00919 - 0.315	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	7 / 59	0.128 J Z	4.1 J Z	0.0134 - 0.32	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	31 / 59	0.0219 J Z	0.341 J Z	0.0171 - 0.285	4.83 - 49.2	ng/kg	SL-040-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	29 / 59	0.0316 J Z	11.3 J Z	0.0115 - 0.498	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	42 / 59	0.023 J Z	1.02 J Z	0.0171 - 0.283	4.83 - 49.2	ng/kg	SL-017-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	22 / 59	0.111 J Z	3.91 J Z	0.00986 - 0.433	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	39 / 59	0.0841 J Z	1.32 J Z	0.0171 - 0.277	4.83 - 49.2	ng/kg	SL-006-SA5DS SL-010-SA5DS	0 - 0.5 0 - 0.5
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	32 / 59	0.0578 J Z	3.86 J Z	0.012 - 0.406	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	35 / 59	0.0265 J Z	0.412 J Z	0.0207 - 0.401	4.83 - 49.2	ng/kg	SL-004-SA5DS	0 - 0.5
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	34 / 59	0.0832 J Z	3.87 J Z	0.00997 - 0.442	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	19 / 59	0.0401 J Z	4.4 J Z	0.00986 - 0.379	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	19 / 59	0.228 J Z	9.93 J Z	0.00954 - 0.396	4.83 - 49.2	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	18 / 59	0.0258 J Z	0.148 J Z	0.0243 - 0.426	0.967 - 9.85	ng/kg	SL-004-SA5DS	0 - 0.5
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	41 / 59	0.0249 J Z	1.1 J Z	0.0187 - 0.791	0.967 - 9.85	ng/kg	SL-026-SA5DS	0 - 0.5
PCBs and Dioxins	OCDD	3268-87-9	1613B	41 / 59	1.92 J Z	146	0.0176 - 0.406	9.67 - 98.5	ng/kg	SL-014-SA5DS	0 - 0.5
PCBs and Dioxins	OCDF	39001-02-0	1613B	31 / 59	0.613 J Z	8.98 J Z	0.0227 - 0.436	9.67 - 98.5	ng/kg	SL-026-SA5DS	0 - 0.5
Pesticides	4,4'-DDD	72-54-8	8081A	0 / 32	-	-	0.066 - 6.7	0.34 - 34	ug/kg		-
Pesticides	4,4'-DDE	72-55-9	8081A	19 / 32	0.1 J FD, Z	2.8	0.066 - 270	0.34 - 270	ug/kg	SL-002-SA5DS	0 - 0.5
Pesticides	4,4'-DDT	50-29-3	8081A	19 / 32	0.22 J FD, Z	7	0.066 - 33	0.34 - 170	ug/kg	SL-028-SA5DS	0 - 0.5
Pesticides	Aldrin	309-00-2	8081A	0 / 32	-	-	0.066 - 6.7	0.17 - 17	ug/kg		-
Pesticides	Alpha-BHC	319-84-6	8081A	2 / 32	0.076 J Z	0.09 J Z	0.034 - 3.4	0.17 - 17	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Beta-BHC	319-85-7	8081A	4 / 32	0.078 J Z	0.14 J Z	0.06 - 6.1	0.17 - 17	ug/kg	SL-002-SA5DS	0 - 0.5

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Pesticides	Chlordane	57-74-9	8081A	25 / 32	0.9 J FD, Z	10 J Z	0.81 - 510	3.4 - 510	ug/kg	SL-028-SA5DS	0 - 0.5
Pesticides	Delta-BHC	319-86-8	8081A	6 / 32	0.038 J Z	0.35	0.036 - 3.7	0.17 - 17	ug/kg	SL-029-SA5DS	0 - 0.5
Pesticides	Dieldrin	60-57-1	8081A	0 / 32	-	-	0.067 - 50	0.34 - 50	ug/kg		-
Pesticides	Endosulfan I	959-98-8	8081A	1 / 32	0.089 J Z	0.089 J Z	0.044 - 4.5	0.17 - 17	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Endosulfan II	33213-65-9	8081A	1 / 32	0.4	0.4	0.067 - 46	0.34 - 46	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	0 / 32	-	-	0.066 - 6.7	0.34 - 34	ug/kg		-
Pesticides	Endrin	72-20-8	8081A	0 / 32	-	-	0.066 - 59	0.34 - 59	ug/kg		-
Pesticides	Endrin Aldehyde	7421-93-4	8081A	7 / 32	0.086 J Z	0.99 J S	0.066 - 28	0.34 - 34	ug/kg	SL-017-SA5DS	0 - 0.5
Pesticides	Endrin Ketone	53494-70-5	8081A	1 / 32	0.097 J Z	0.097 J Z	0.067 - 6.7	0.34 - 34	ug/kg	SL-022-SA5DS	0 - 0.5
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	5 / 32	0.038 J FD, Z	0.18	0.034 - 3.4	0.17 - 17	ug/kg	SL-030-SA5DS	0 - 0.5
Pesticides	Heptachlor	76-44-8	8081A	1 / 32	0.077 J Z	0.077 J Z	0.06 - 6.1	0.17 - 17	ug/kg	SL-016-SA5DS	0 - 0.5
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	0 / 32	-	-	0.034 - 83	0.17 - 83	ug/kg		-
Pesticides	Methoxychlor	72-43-5	8081A	1 / 32	0.81 J Z	0.81 J Z	0.34 - 34	1.7 - 170	ug/kg	SL-032-SA5DS	0 - 0.5
Pesticides	Mirex	2385-85-5	8081A	0 / 32	-	-	0.067 - 31	0.34 - 34	ug/kg		-
Pesticides	Toxaphene	8001-35-2	8081A	4 / 32	2.6 J Z	15	2.2 - 1400	6.7 - 1400	ug/kg	SL-002-SA5DS	0 - 0.5
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	0 / 31	-	-	4.4 - 4.6	9 - 9.4	ug/kg		-
Pesticides	2,4 DB	94-82-6	8151A	8 / 31	1.7 J Z	8.8	0.62 - 100	1.7 - 100	ug/kg	SL-022-SA5DS	0 - 0.5
Pesticides	2,4,5-T	93-76-5	8151A	4 / 31	0.15 J Z	1.9	0.082 - 0.85	0.17 - 0.85	ug/kg	SL-024-SA5DS	0 - 0.5
Pesticides	2,4,5-TP	93-72-1	8151A	15 / 31	0.09 J Z	0.78	0.075 - 0.25	0.17 - 0.25	ug/kg	SL-025-SA5DS	0 - 0.5
Pesticides	2,4-D	94-75-7	8151A	1 / 31	4.2	4.2	1.2 - 3.6	3.6 - 3.8	ug/kg	SL-022-SA5DS	0 - 0.5
Pesticides	Dicamba	1918-00-9	8151A	1 / 31	0.61 J Z	0.61 J Z	0.4 - 0.97	1.2 - 1.3	ug/kg	SL-038-SA5DS	0 - 0.5
Pesticides	Dichlorprop	120-36-5	8151A	2 / 31	1 J Z	1.6 J Z	0.8 - 1.3	1.7 - 1.8	ug/kg	SL-038-SA5DS	0 - 0.5
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	1 / 31	0.86 J L, Z	0.86 J L, Z	0.8 - 0.84	2.4 - 2.5	ug/kg	SL-026-SA5DS	0 - 0.5
Pesticides	MCPA	94-74-6	8151A	2 / 31	120 J Z	870	76 - 170	250 - 260	ug/kg	SL-038-SA5DS	0 - 0.5
Pesticides	MCPP	93-65-2	8151A	0 / 31	-	-	75 - 130	250 - 260	ug/kg		-
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	0 / 3	-	-	17.6 - 18.4	35.2 - 36.8	ng/kg		-
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	0 / 59	-	-	330 - 17000	1000 - 50000	ug/kg		-
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Chlorophenol	95-57-8	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Methylphenol	95-48-7	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	2-Nitroaniline	88-74-4	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	2-Nitrophenol	88-75-5	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	0 / 59	-	-	100 - 5000	330 - 17000	ug/kg		-
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	3-Nitroaniline	99-09-2	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	0 / 59	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	4-Chloroaniline	106-47-8	8270C	0 / 59	-	-	66 - 3300	170 - 8300	ug/kg		-
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-
Semivolatiles	4-Methylphenol	106-44-5	8270C	0 / 59	-	-	33 - 1700	170 - 8300	ug/kg		-

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	4-Nitroaniline	100-01-6	8270C	0 / 59	-	-	66 - 3300	170 - 8300	ug/kg		-
Semivolatiles	4-Nitrophenol	100-02-7	8270C	0 / 59	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Aniline	62-53-3	8270C	0 / 59	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Benzidine	92-87-5	8270C	0 / 59	-	-	1200 - 58000	3300 - 170000	ug/kg		-
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	1 / 1	1400 J Z	1400 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	1 / 1	1400 J Z	1400 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	1 / 1	1100 J Z	1100 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzoic Acid	65-85-0	8270C	3 / 59	200 J Z	1200	170 - 8300	500 - 25000	ug/kg	SL-013-SA5DS	4 - 5
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	0 / 59	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	4 / 4	18 J Z	27 J Z	17 - 19	340 - 390	ug/kg	SL-037-SA5DS	9 - 10
Semivolatiles	Carbazole	86-74-8	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Chrysene	218-01-9	8270C	1 / 1	1500 J Z	1500 J Z	830 - 830	8300 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Dibenzofuran	132-64-9	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Fluoranthene	206-44-0	8270C	2 / 2	36 J Z	1100 J Z	17 - 830	170 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	0 / 59	-	-	66 - 3300	170 - 8300	ug/kg		-
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	0 / 59	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Hexachloroethane	67-72-1	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Isophorone	78-59-1	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Nitrobenzene	98-95-3	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	0 / 59	-	-	17 - 830	170 - 8300	ug/kg		-
Semivolatiles	Pentachlorophenol	87-86-5	8270C	0 / 59	-	-	170 - 8300	500 - 25000	ug/kg		-
Semivolatiles	Phenanthrene	85-01-8	8270C	1 / 1	35 J Z	35 J Z	17 - 17	170 - 170	ug/kg	SL-001-SA5DS	0 - 0.5
Semivolatiles	Phenol	108-95-2	8270C	4 / 59	18 J Z	20 J Z	17 - 830	170 - 8300	ug/kg	SL-031-SA5DS	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C	2 / 2	24 J Z	1300 J Z	17 - 830	170 - 8300	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	2 / 59	0.78 J Z	0.84 J Z	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-032-SA5DS	0 - 0.5
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	4 / 59	0.7 J Z	1.2 J Z	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-004-SA5DS	0 - 0.5
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	2 / 59	1 J S, Z	11	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	3 / 59	0.48 J Z	2.9	0.33 - 1.7	1.7 - 8.4	ug/kg	SL-030-SA5DS	0 - 0.5
Semivolatiles	Anthracene	120-12-7	8270C SIM	6 / 59	0.43 J Z	25	0.33 - 1.7	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	18 / 59	0.68 J Z	180	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	23 / 58	0.74 J Z	12 J S	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	33 / 58	0.72 J Z	34	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-027-SA5DS	0 - 0.5
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	11 / 58	0.68 J Z	10 J S	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	9 / 59	0.72 J Z	150	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	40 / 55	6.5 J Z	130	6 - 30	18 - 90	ug/kg	SL-014-SA5DS	0 - 0.5
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	14 / 59	6.6 J Z	200	6 - 30	18 - 90	ug/kg	SL-030-SA5DS	0 - 0.5
Semivolatiles	Chrysene	218-01-9	8270C SIM	34 / 58	0.36 J Z	20	0.33 - 1.7	1.7 - 8.4	ug/kg	SL-027-SA5DS	0 - 0.5
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	4 / 59	1 J Z	27	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	1 / 59	10 J S, Z	10 J S, Z	6 - 30	18 - 90	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	1 / 59	6.3 J S, Z	6.3 J S, Z	6 - 30	18 - 90	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	5 / 59	7.7 J Z	19 J S	6 - 30	18 - 90	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	7 / 59	6.9 J FD, Z	25	6 - 30	18 - 90	ug/kg	SL-030-SA5DS	0 - 0.5
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	28 / 57	0.86 J Z	15 J S	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-022-SA5DS	4 - 5
Semivolatiles	Fluorene	86-73-7	8270C SIM	7 / 59	0.71 J Z	6.7	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	12 / 59	0.67 J Z	78	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Naphthalene	91-20-3	8270C SIM	20 / 59	0.69 J Z	3.5	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-004-SA5DS	0 - 0.5
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	0 / 59	-	-	0.66 - 3.3	1.7 - 8.4	ug/kg		-

Table 3-6
Summary of Analytical Results for Chemicals - Validated Data
Combined Subsurface and Surface Soils - HSA - 5D South

Group	Chemical	CAS No	Analytic Method	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	25 / 58	0.75 J Z	99	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-026-SA5DS	0 - 0.5
Semivolatiles	Pyrene	129-00-0	8270C SIM	29 / 57	0.73 J Z	12 J S	0.66 - 3.3	1.7 - 8.4	ug/kg	SL-022-SA5DS SL-032-SA5DS	4 - 5 0 - 0.5
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	0 / 3	-	-	0.42 - 0.45	1.3 - 1.3	mg/kg		-
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	0 / 3	-	-	0.42 - 0.45	1.3 - 1.3	mg/kg		-
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	2 / 3	1.2 J Z	3.3	0.42 - 0.45	1.3 - 1.3	mg/kg	SL-005-SA5DS	1 - 2
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	3 / 3	1.6	8.5	0.42 - 0.45	1.3 - 1.3	mg/kg	SL-005-SA5DS	1 - 2
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	0 / 3	-	-	0.42 - 0.45	1.3 - 1.3	mg/kg		-
Volatiles	GRO (C5-C12)	GROC5C12	8015M	0 / 3	-	-	0.2 - 0.4	1.2 - 2.2	mg/kg		-

ug/kg- microgram per kilogram
mg/kg - milligram per kilogram
ng/kg - nanogram per kilogram
J - Result is an estimated value
H - Holding times exceeded
S - Surrogates outside of criteria
C - Calibration recoveries outside of criteria
R - Calibration relative response factors outside of criteria
B - Method blank contamination
L - Laboratory control sample recoveries outside of criteria
Q - Matrix spike recoveries outside of criteria
E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
I - Internal standards outside of criteria
A - Serial dilution results outside of criteria
F - Field blank contamination
Z - Analytes reported below the reporting limits and above the method detection limi

Section 4
Data Usability Assessment

The purpose of the DUAR provided in Appendix C and summarized here is to: (1) describe the data validation processes performed on the data sets and (2) determine whether the sample results meet the data quality objectives (DQOs) outlined in the *Master Work Plan/Field Sampling and Analysis Plan Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM 2011a).

4.1 Usability Summary

For the Subareas 5D North and 5D South data usability assessment, 117 data sets, or SDGs were reviewed. An SDG consists of 20 or fewer samples grouped together for analyses depending on the date and time the samples were received by the laboratory. The analyses performed are discussed in Section 2.5.

Samples were collected and analyzed in accordance with the WP/FSAP (CDM 2011a), and WP/FSAP Addendums for Subareas 5D North and 5D South (CDM 2011b and CDM 2011c) with the exception of deviations during the field investigation as stated in Section 2.7.

The validated data for Subareas 5D North and 5D South samples are usable as reported, with the exception of the rejected data. One fluoride result, one antimony result, one ethanol result, one m-terphenyl result, one p-terphenyl result, three EFH results, 72 pesticide results, ten PCB results, 50 herbicide results, 11 SVOC results, and 30 explosives results were rejected for Subarea 5D North sample data. For all Subarea 5D North data, 0.18 percent of the results were rejected. For Subarea 5D South data one pesticide result, 16 herbicide results, and four SVOC results were rejected. For all Subarea 5D South data, 0.23 percent of the results were rejected. These rejected data do not impact project objectives and goals. Specific details are provided in the validation reports in Appendix C and Section 4.7.

4.2 Data Validation Procedures

Data were validated by the independent data validation firm Laboratory Data Consultants, Inc. All data validation was conducted in accordance with *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA 2004), *EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (EPA 2008), and *EPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (EPA 2005).

The data validation strategy was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the remaining 90 percent according to EPA Level III protocols (all QC parameters except calibrations and raw data).

Table 4-1 shows all SDGs that include Subareas 5D North and 5D South soil samples and those SDGs that were validated as Level III or Level IV. Some SDGs contain samples from other subareas, but all samples in an SDG were validated together. An index of samples associated with each SDG is presented at the beginning of Appendix C.

Table 4-1 Sample Delivery Groups and Validation Levels for Subareas 5D North and 5D South

Sample Delivery Group	Level of Validation Performed	CDM Review
5D North		
DE151	Level III	
DE152	Level III	
DE153	Level III	
DE154	Level III	
DE155	Level III	
DE156	Level III	
DE157	Level III	
DE158	Level IV	Yes
DE159	Level III	
DE160	Level III	
DE161	Level III	
DE162	Level III	
DE163	Level III	
DE164	Level III	
DE166	Level III	
DE167	Level III	
DE168	Level III	Yes
DE169	Level III	
DE170	Level III	
DE171	Level III	
DE172	Level III	
DE173	Level IV	
DE174	Level III	
DE175	Level III	
DE176	Level IV	Yes
DE177	Level III	
DE178	Level III	
DE179	Level III	
DE180	Level III	
DE181	Level III	
DE182	Level III	
DE184	Level III	
DE185	Level III	
DE186	Level III	
DE187	Level III	Yes
DE188	Level III	
DE189	Level III	
DE190	Level III	
DE191	Level III	
DE192	Level III	
DE193	Level III	
DE194	Level III	
DE195	Level III	
DE196	Level III	
DE197	Level III	Yes
DE210	Level III	
DE211	Level III	
DE212	Level III	
DE213	Level III	
DE214	Level III	

Table 4-1 Sample Delivery Groups and Validation Levels for Subareas 5D North and 5D South

Sample Delivery Group	Level of Validation Performed	CDM Review
5D North (cont.)		
DE215	Level III	
DE216	Level III	
DE218	Level III	
DE219	Level III	Yes
DE220	Level III	
DE221	Level III	
DE222	Level III	
DE229	Level III	
DX081	Level III	
DX082	Level III	
DX083	Level III	
DX084	Level III	Yes
DX085	Level III	
DX086	Level III	
DX087	Level III	
DX088	Level III	
DX089	Level III	
DX090	Level IV	
DX091	Level III	
DX093	Level III	
DX094	Level III	
DX095	Level III	
DX096	Level III	
DX097	Level IV	Yes
DX098	Level III	
DX099	Level III	
DX100	Level IV	
DX101	Level III	
DX102	Level III	
DX103	Level III	
DX104	Level III	
DX105	Level III	
DX106	Level III	
DX107	Level III	
DX108	Level III	Yes
DX109	Level III	
DX110	Level III	
DX120	Level III	
DX121	Level III	
DX123	Level III	
DX124	Level III	
DX125	Level III	
DX126	Level IV	Yes
DX127	Level III	
DX129	Level III	
Sample Delivery Group	**Level of Validation Performed**	**CDM Review**
5D South		
DE253	Level III	
DE256	Level III	Yes

Table 4-1 Sample Delivery Groups and Validation Levels for Subareas 5D North and 5D South

Sample Delivery Group	Level of Validation Performed	CDM Review
5D South cont'd		
DE257	Level III	
DE269	Level III	
DE270	Level III	
DE271	Level III	
DE272	Level IV	Yes
DE273	Level III	
DE282	Level III	
DE283	Level IV	
DE284	Level III	
DE285	Level III	
DE286	Level III	
DX142	Level III	
DX143	Level IV	Yes
DX144	Level III	
DX146	Level III	
DX149	Level III	
DX150	Level III	
DX151	Level III	
DX154	Level III	
DX155	Level III	

Note: Some SDGs contain samples from other subareas, but all samples in an SDG were validated together.

In order to evaluate the quality of the laboratory and the validation firm, CDM chemists reviewed 10 percent of the Subareas 5D North and 5D South soil sample SDGs. The purpose of the review was to identify any laboratory QC issues not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM's review. The results of this review are provided in Section 4.8.

4.3 Quality Assurance Objectives

Quality assurance (QA) objectives for measurement data are expressed in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). The QA objectives provide a mechanism for evaluating and measuring data quality.

A review of the collected data is necessary to determine if DQOs established in the WP/FSAP (CDM 2011a) have been met. The following data measurement tasks were evaluated:

- Specification and adherence to analytical method and reporting detection limit requirements
- Identification of the appropriate laboratory analytical QC requirements and verification of whether these QC requirements were met
- Verification that measurement performance criteria (representativeness and completeness) for the data were met
- Verification that field procedures were followed, deviations were documented, and determination of impact on data quality as a result of these deviations

The data validation review determines if the collected data are of sufficient quality (except for the rejected results) to support their intended use.

4.4 Summary of Field and Laboratory QA Activities

CDM completed sampling activities in Subareas 5D North and 5D South in accordance with the approved WP/FSAP (CDM 2011a) and Addendums to the WP/FSAP (CDM 2011b, CDM 2011c)). A total of 498 soil samples were collected and analyzed from 13 drainage locations, 73 surface locations, and 186 soil boring locations in Subarea 5D North. For Subarea 5D South 59 soil samples were collected and analyzed from two drainage locations, 30 surface locations, and 20 soil boring locations. Table 2-1 and Table 2-2 provide a summary of the samples collected and the laboratory analyses requested.

4.5 Field Quality QA/QC

The field QC samples were collected at a frequency of one per 20 samples (5 percent) for MS/MSDs and field duplicates. MS/MSD and field duplicate samples were collected by CDM at 25 sample locations for Subarea 5D North and four sample locations for Subarea 5D South and analyzed by LLI. MS/MSD and field duplicate samples met the frequency requirements detailed in the WP/FSAP (CDM 2011a).

As discussed in Section 2.4.2, 24 equipment rinsate blank samples were collected for Subarea 5D North and three were collected for Subarea 5D South. A field blank sample is collected with each batch of ASTM water used by HGL for decontamination. No field blanks were collected during sampling for 5D North and 5D South. The field blank associated with this ASTM decontamination water has been applied to the 5D North and 5D South samples accordingly. The equipment rinsate blank results are presented in Appendix C and a summary of the detected results is presented in Tables 4-2 and 4-3.

Table 4-2 Equipment Blanks for Subarea 5D North Soil Samples – Detected Results Only

EB01-SA5DN-SS-051711 EB01-SA5DN 05/17/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.032/0.051	J
2-Methylnaphthalene	µg/L	0.032/0.051	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.3/1	J
Di-n-Butylphthalate	µg/L	0.17/1	J
Di-N-Octyl Phthalate	µg/L	0.26/1	J
Naphthalene	µg/L	0.2/0.051	
EB02-SA5DN-SS-051811 EB02-SA5DN 05/18/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
N-Nitrosodimethylamine	ng/L	2.25/1.01	
EB03-SA5DN-SS-051911 EB03-SA5DN 05/19/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.033/0.053	J
2-Methylnaphthalene	µg/L	0.033/0.053	J
Methylene chloride	µg/L	3/5	J
Naphthalene	µg/L	0.28/0.053	
EB04-SA5DN-SS-051911 EB04-SA5DN 05/19/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.032/0.054	J
2-Methylnaphthalene	µg/l	0.032/0.054	J
Di-N-Octyl Phthalate	µg/L	0.33/1.1	J
Lead	mg/L	0.000056/0.001	J
Naphthalene	µg/L	0.21/0.054	
Zinc	mg/L	0.0213/0.015	
EB05-SA5DN-SS-052311 EB05-SA5DN 05/23/11			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.034/0.049	J
2,3,7,8-TCDD	pg/L	1.19/1.96	J
2-Methylnaphthalene	µg/L	0.034/0.049	J
Naphthalene	µg/L	0.23/0.049	
N-Nitrosodimethylamine	ng/L	2.07/0.985	

Table 4-2 Equipment Blanks for Subarea 5D North Soil Samples – Detected Results Only (cont.)

EB06-SA5DN-SS-052411 EB06-SA5DN 05/24/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.019/0.052	J
2-Methylnaphthalene	µg/L	0.019/0.052	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.2/1	J
Naphthalene	µg/L	0.13/0.052	
EB07-SA5DN-SS-052511 EB07-SA5DN 05/25/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1,2,3,4,7,8-HxCDD	pg/L	0.241/10.5	J
1-Methylnaphthalene	µg/L	0.028/0.049	J
2,3,7,8-TCDD	µg/L	0.234/2.09	J
2-Methylnaphthalene	µg/L	0.028/0.049	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.21/0.98	J
Di-n-Butylphthalate	µg/L	0.063/0.98	J
Manganese	mg/L	0.001/0.005	J
Naphthalene	µg/L	0.16/0.049	
EB08- SA5DN -SB-052511 EB08- SA5DN 05/25/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Methylene chloride	µg/L	2/5	J
EB09-SA5DN-SS-052611 EB09-SA5DN 05/26/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.032/0.049	J
2-Methylnaphthalene	µg/L	0.032/0.049	J
Di-n-Butylphthalate	µg/L	0.065/0.98	J
Heptachlor	µg/L	0.0088/0.01	J
Naphthalene	µg/L	0.22/0.049	
RDX	µg/L	0.58/0.6	J

Table 4-2 Equipment Blanks for Subarea 5D North Soil Samples – Detected Results Only (cont.)

EB10- SA5DN-SS-053111 EB10- SA5DN 05/31/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
1-Methylnaphthalene	µg/L	0.028/0.054	J
2-Methylnaphthalene	µg/L	0.03/0.054	J
Di-n-Butylphthalate	µg/L	0.062/1.1	J
Heptachlor	µg/L	0.0088/0.01	J
Naphthalene	µg/L	0.15/0.054	
EB11-SA5DN-SB-05311 EB11-SA5DN 05/31/11			
Analyte	**Analyte**	**Analyte**	**Analyte**
1-Methylnaphthalene	µg/L	0.023/0.053	J
2-Methylnaphthalene	µg/L	0.024/0.053	J
Benzene	µg/L	0.9/5	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.082/1.1	J
Di-n-Butylphthalate	µg/L	0.07/1.1	J
Heptachlor	µg/L	0.0084/0.01	J
Lead	mg/L	0.000062/0.001	J
Naphthalene	µg/L	0.14/0.053	
EB12-SA5DN-SS-060211 EB12-SA5DN 06/02/11			
1-Methylnaphthalene	µg/L	0.029/0.052	J
2-Methylnaphthalene	µg/L	0.029/0.052	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.22/1	J
Di-n-Butylphthalate	µg/L	0.082/1	J
Heptachlor	µg/L	0.0099/0.01	J
Lead	mg/L	0.000074/0.01	J
Naphthalene	µg/L	0.17/0.052	
EB13-SA5DN-SS-060311 EB13-SA5DN 06/03/11			
1-Methylnaphthalene	µg/L	0.026/0.053	J
2-Methylnaphthalene	µg/L	0.026/0.053	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.055/1.1	J
Di-n-Butylphthalate	µg/L	0.065/1.1	J
Heptachlor	µg/L	0.0086/0.01	J
Lead	mg/L	0.000062/0.001	J
Naphthalene	µg/L	0.16/0.053	

Table 4-2 Equipment Blanks for Subarea 5D North Soil Samples – Detected Results Only (cont.)

EB14-SA5DN-SB-060311 EB14-SA5DN 06/03/11			
1-Methylnaphthalene	µg/L	0.028/0.051	J
2-Methylnaphthalene	µg/L	0.026/0.051	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.057/1	J
Di-n-Butylphthalate	µg/L	0.067/1	J
Lead	mg/L	0.000064/0.001	J
Naphthalene	µg/L	0.15/0.051	
EB15-SA5DN-SB-060711 EB15-SA5DN 06/07/11			
Methanol	µg/L	230/1000	J
RDX	µg/L	0.6/0.6	
EB16-SA5DN-SB-060911 EB16-SA5DN 06/09/11			
Methanol	µg/L	210/1000	J
RDX	µg/L	2.3/0.6	
EB17-SA5DN-SB-061411 EB17-SA5DN 06/14/11			
1-Methylnaphthalene	µg/L	0.014/0.05	J
2,3,7,8-TCDF	µg/L	0.212/2.05	J
2-Methylnaphthalene	µg/L	0.015/0.05	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.2/1	J
Di-n-Butylphthalate	µg/L	0.081/1	J
Methylene chloride	µg/L	10/5	
Naphthalene	µg/L	0.12/0.05	
Toluene	µg/L	1/5	J
EB18-SA5DN-SB-061511 EB18-SA5DN 06/15/11			
1-Methylnaphthalene	µg/L	0.013/0.05	J
2,3,7,8-TCDF	µg/L	0.436/2.02	J
2-Methylnaphthalene	µg/L	0.014/0.05	J
Di-n-Butylphthalate	µg/L	0.11/1	J
Methylene chloride	µg/L	9/5	
Naphthalene	µg/L	0.11/0.05	
N-Nitrosodimethylamine	ng/L	3.37/1.06	
RDX	µg/L	0.95/0.6	
Toluene	µg/L	0.8/5	J

Table 4-2 Equipment Blanks for Subarea 5D North Soil Samples – Detected Results Only (cont.)

EB19-SA5DN-SB-062211 EB19-SA5DN 06/22/11			
1-Methylnaphthalene	µg/L	0.012/0.048	J
2-Methylnaphthalene	µg/L	0.012/0.048	J
Methylene chloride	µg/L	7/5	
Naphthalene	µg/L	0.096/0.048	
N-Nitrosodimethylamine	ng/L	3.39/1.02	
RDX	µg/L	2.1/0.6	
Zirconium	mg/L	0.0078/0.05	J
EB20-SA5DN-SB-062911 EB20-SA5DN 06/29/11			
2-Methylnaphthalene	µg/L	0.021/0.099	J
Butylbenzylphthalate	µg/L	0.18/2	J
Di-n-Butylphthalate	µg/L	0.2/2	J
Di-N-Octyl Phthalate	µg/L	0.35/2	J
Methylene chloride	µg/L	5/5	
Naphthalene	µg/L	0.2/0.099	
N-Nitrosodimethylamine	ng/L	3.67/1.04	
N-Nitrosodimethylamine	µg/L	0.1/0.099	
EB21-SA5DN-SB-070711 EB21-SA5DN 07/07/11			
Calcium	mg/L	0.0768/0.2	J
Iron	mg/L	0.0221/0.2	J
Methylene chloride	µg/L	3/5	J
Naphthalene	µg/L	0.084/0.051	
EB22-SA5DN-SB-070811 EB22-SA5DN 07/08/11			
N-Nitrosodimethylamine	ng/L	6.16/1.97	

Table 4-2 Equipment Blanks for Subarea 5D North Soil Samples – Detected Results Only (cont.)

EB23-SA5DN-SB-080311 EB23-SA5DN 08/03/11			
1,2,3,4,7,8-HxCDD	pg/L	0.216/11.2	J
1,2,3,6,7,8-HxCDF	pg/L	0.263/11.2	J
4-Amino-2,6-Dinitrololuene	µg/L	0.54/0.6	J
Bis(2-Ethylhexyl) phthalate	µg/L	0.11/1.1	J
Butylbenzylphthalate	µg/L	0.14/1.1	J
Diethylphthalate	µg/L	0.091/1.1	J
Di-n-Butylphthalate	µg/L	0.32/1.1	J
Di-N-Octyl Phthalate	µg/L	0.22/1.1	J
Naphthalene	µg/L	0.063/0.055	
N-Nitrosodimethylamine	ng/L	4.4/1.02	J
RDX	µg/L	1.7/0.6	
Zinc	mg/L	0.0172/0.015	
EB-SA5DN-SB-081111 EB-SA5DN 08/11/11			
4-Amino-2,6-Dinitrololuene	µg/L	0.41/0.6	J
Butylbenzylphthalate	µg/L	0.14/1.1	J
Diethylphthalate	µg/L	0.13/1.1	J
Di-n-Butylphthalate	µg/L	0.71/1.1	J
Lead	mg/L	0.00011/0.001	J
Naphthalene	µg/L	0.097/0.054	J
RDX	µg/L	1.2/0.6	

Notes:
Blank result greater than RL
RL = Reporting Limit
µg/L = microgram per liter
mg/L = milligram per liter
pg/L = picogram per liter
ng/L = nanogram per liter
RDX = 1,3,5-Trinitroperhydro-1,3,5-triazine

Table 4-3 Equipment Blank for Subarea 5D South Soil Samples – Detected Results Only

EB-SA5DS-SB-101811 EB-SA5DS 10/18/11			
1,2,3,7,8-PeCDD	pg/L	0.332/10.2	J
Boron	mg/L	0.0034/0.05	J
Di-n-Butylphthalate	µg/L	0.14/2	J
N-Nitrosodimethylamine	ng/L	4.42/1.04	
RDX	µg/L	1.6/0.6	
EB-SA5DS-SB-110811 EB-SA5DS 11/08/11			
N-Nitrosodimethylamine	ng/L	1.57/0.972	J
EB-SA5DS-SB-110911 EB-SA5DS 11/09/11			
N-Nitrosodimethylamine	ng/L	1.96/1.09	
EB-SA5DS-SB-111011 EB-SA5DS 11/10/11			
2,3,7,8-TCDF	µg/L	0.363/2.01	J
Diethylphthalate	µg/L	0.097/1	J
Di-n-Butylphthalate	µg/L	0.36/1	J
Formaldehyde	µg/L	78/50	
N-Nitrosodimethylamine	ng/L	2.12/1.03	
RDX	µg/L	0.76/0.6	
EB-SA5DS-SS-092811 EB-SA5DS 09/28/11			
Bis(2-Ethylhexyl) phthalate	µg/L	0.11/1.1	J
Boron	mg/L	0.0025/0.05	J
Cadmium	mg/L	0.00022/0.0005	J
Diethylphthalate	µg/L	0.36/1.1	J
Di-n-Butylphthalate	µg/L	0.74/1.1	J
Di-N-Octyl Phthalate	µg/L	0.12/1.1	J
Lead	mg/L	0.0026/0.001	
Naphthalene	µg/L	0.057/0.053	

Notes:
Blank result greater than RL
RL = Reporting Limit
µg/L = microgram per liter
pg/L = picogram per liter

Forty-six trip blank samples were shipped with the Subarea 5D North soil samples and eight trip blank samples were shipped with the Subarea 5D South soil samples. The results for these samples are presented in Appendix C and a summary of the detected results is presented in Table 4-4 and Table 4-

5. Data qualifications based on blank detections and impacts to the data due to contaminants detected in the blanks are discussed in Section 4.7.3 and in the Appendix C validation reports.

Table 4-4 Trip Blanks for Subarea 5D North Soil Samples – Detected Results Only

TB-052711 05/27/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
Benzene	µg/L	1/5	J
Toluene	µg/L	0.7/5	J

Notes:
RL = Reporting Limit
µg/L = microgram per liter

Table 4-5 Trip Blanks for Subarea 5D South Soil Samples – Detected Results Only

TB-052711 05/27/2011			
Analyte	**Units**	**Concentration/RL**	**Final Qualifier**
N-Nitrosodimethylamine	ng/kg	105/33.2	J

Notes:
Blank result greater than RL
RL = Reporting Limit
ng/L = nanogram per liter
ng/kg = nanogram per kilogram

Temperature blanks were to be included with each shipment of samples. Based on validation results, all temperature blanks for 5D North and 5D South met criteria.

The number of field QC samples collected satisfies the minimum requirements for the Subareas 5D North and 5D South sampling programs.

Field QA/QC objectives were attained through the use of appropriate sampling techniques and collection of the required number and frequency of QC samples.

4.6 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, LCSs, MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. The majority of the laboratory QC sample criteria met project requirements as indicated in the data validation reports in Appendix C with the appropriate qualifiers applied. One hundred and eighty-one individual analyte results for samples from Subarea 5D North (0.18 percent of all the analytes) and 21 individual analyte results for samples from Subarea 5D South (0.23 percent of all analytes) were rejected as discussed in Section 4.7 and in Appendix C.

4.7 Data Quality Indicators

This section summarizes the validation performed. Individual SDG validation reports with specific sample detail are provided in Appendix C.

Achievement of the DQOs was determined in part by the use of data quality indicators (DQIs) described in the DUAR in Appendix C. These DQIs for measurement data are expressed in terms of PARCCS. The DQIs provide a mechanism for ongoing control to evaluate and measure data quality throughout the project. These criteria are defined in the sections below.

4.7.1 Precision

Precision is the measurement of the ability to obtain the same value on re-analysis of a sample through the entire analytical process. The closer the measurement results to each other, the greater the precision. Precision has nothing to do with accuracy or true values of the sample. Instead, it is focused on random errors inherent in the analysis that stem from the measurement process and are compounded by the non-homogeneous nature of some samples. Precision is measured by analyzing two portions of the sample (sample and duplicate) and then comparing the results. This comparison can be expressed in terms of relative percent difference (RPD). RPD is calculated as the absolute difference between the two measurements divided by the average of the two measurements.

$$RPD = \frac{[(A-B)/\underline{A+B}]}{2} \times 100$$

The problem with this formula is that it depends on the average of the two measurements and the magnitude of the calculated RPD is intimately linked to the magnitude of the results. When sample results are close to the RL, the RPD is greater but does not necessarily indicate that the precision is out of control limits, just that the sample concentrations are low.

RPD as a measure of precision works very well in those cases where the same level of analyte is present in all samples; however, it does not work well as a quantitative tool when varying levels are present. Analysis of sample duplicates is valuable as a quantitative measure of precision but is not useful as a quantitative measure in environmental sample analyses. Another option that is used for evaluating the differences between sample results that are close to the RL is calculating the absolute difference between the results. In this situation, the difference between the sample results is compared to the RL (2 times the RL for soils) and if the difference is greater, the sample results are qualified as estimated "J."

Because of these problems, precision is normally calculated on spike samples, either on an MS and MSD or on a LCS and laboratory control sample duplicate (LCSD). In this case, a known concentration of analyte has been created in each sample and long and short term evaluations of RPD can be made that are applicable to the reality of the measurement. The drawback is that the precision measurement is only applicable to the particular spike level used.

For the Subareas 5D North and 5D South soil data sets, precision was evaluated by reviewing RPD results for MS/MSDs, LCS/LCSDs, laboratory duplicates, and field duplicates.

Laboratory RPD control limits are presented in the WP/FSAP (CDM 2011a) or are laboratory specific. For laboratory duplicates, if one or both of the sample results were less than two times the RL, a control limit of the absolute difference value equal to the RL was used for comparison.

The field duplicate RPD criterion is 50 percent. Field duplicates for this project were validated as follows: If one result is non-detect and the other result is above the RL, the RPD result is reported at 200 percent and the field duplicate sample and parent sample results are qualified as estimated "J" for a detect value or "UJ" for a non-detect value. If the field duplicate RPD is above the 50 percent criterion

(and both sample results are above the RL) the field duplicate and parent sample results for that analyte are qualified as estimated "J."

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory and field duplicate precision results. Details of the validation and the number of analytes qualified are provided in the DUAR and laboratory validation reports in Appendix C.

The following Subarea 5D North individual analyte results were qualified as estimated "J/UJ" based on precision criteria:

- Some of the dioxin, fluoride/nitrate, metals, mercury, alcohols and terphenyls, PCBs/PCTs, SVOC SIM and energetic analyte results due to laboratory precision criteria
- Some of the dioxin, pesticide, PCB/PCT and herbicide analyte results as RPD results between the two columns were outside of criteria

The following Subarea 5D South individual analyte results were qualified as estimated "J/UJ" based on precision criteria:

- Some of the fluoride/nitrate, metals and PCB/PCT analyte results due to laboratory precision criteria
- Some of the PCB/PCT analyte results as RPD results between the two columns were outside of criteria

Field duplicate precision criteria required the qualification of some results for dioxins, NDMA, fluoride/nitrate, various metal analytes, hexavalent chromium, mercury, alcohols and terphenyls, TPH and glycols, pesticides, PCB/PCTs, herbicides, VOCs, SVOCs, and SVOC SIM for Subarea 5D North samples. For Subarea 5D South samples, some dioxin results, various metal analyte results, hexavalent chromium results, pesticide results, PCB/PCT results, herbicide results, SVOC results and SVOC SIM results were also qualified as estimated “J/UJ” based on field duplicate precision criteria. No results were rejected based on field duplicate precision criteria. All field duplicate RPD results are presented in Appendix C. In summary, sample results that have been qualified as estimated "J/UJ" due to precision criteria are usable for project decisions with a degree of caution.

There was no discernable pattern or reason for the laboratory and field duplicate sample RPD exceedances identified. No field sampling issues were identified that would cause the RPD results that were outside of criteria. These exceedances are reasonable for this type of sampling activity.

4.7.2 Accuracy

Accuracy is a concept from quantitative analysis that attempts to address the question of how close the analytical result is to the true value of the analyte in the sample. Accuracy is determined through a spike procedure, where a known amount of the target analyte is added to a portion of the sample then the sample and the spiked sample are analyzed. The quantitative measure of accuracy is percent recovery (%R) calculated as follows:

$$\textbf{Percent Recovery} = \frac{\textbf{(Total Analyte Found – Analyte Originally Present)} \times 100}{\textbf{Analyte Added}}$$

Each measurement performed on a sample is subject to random and systematic error. Accuracy is related to the systematic error. Attempts to assess systematic error are always complicated by the inherent random error of the measurement.

Analytical accuracy for the entire data collection activity is difficult to assess because several sources of error exist. Errors can be introduced by any of the following:

- Sampling procedure
- Field contamination
- Sample preservation and handling
- Sample matrix
- Sample preparation
- Analytical techniques

Accuracy is maintained to the extent possible by adhering to the EPA method and approved field and analytical standard operating procedures.

The following QC samples are used to assess laboratory accuracy:

Matrix Spikes: MSs are samples with a known amount of a target analyte added. Analysis of the spiked sample and comparison with the unspiked sample results (background) provides information about the ability of the test procedure to generate a correct result from the sample.

Reporting Limit Matrix Spikes: RL-MSs are samples to which a known amount of a target analyte has been added at the reporting limit concentration. Analysis of the spiked sample and comparison with the unspiked sample results (background) provides information about the ability of the test procedure to generate a correct result. The RL-MS is designed to verify the laboratory methods ability to accurately quantitate the spiked compound at the RL in the site matrix. The RL-MS is an extra QC sample used for the modified methods shown in Table 2-3.

Post Digestion Spikes: Post digestion spikes are performed after the sample has been prepared and are ready for analysis. These are also termed "analytical spikes." The technique is used in conjunction with a MS to provide data that can separate interferences produced as part of the sample preparation from interferences that are innate qualities of the sample.

Laboratory Control Samples: LCSs consist of a portion of analyte-free water or solid phase sample that is spiked with target analytes at a known concentration.

Reporting Limit Laboratory Control Samples: RL-LCSs consist of a portion of analyte-free water or solid phase sample that is spiked at the reporting limit with target analytes at a known concentration. The difference between the RL-LCS and the standard LCS is the concentration spiked into the matrix. Standard LCS samples are spiked at levels 3-5 times above the RL. The RL-LCS is spiked at the RL. The RL-LCS is designed to verify the laboratory methods ability to accurately quantitate the spiked compound at the RL. The RL-LCS is an extra QC sample used for the modified methods identified in Table 2-3.

Surrogates: Surrogate recovery is a QC measure limited to use in organics analysis. Surrogates are compounds added to every sample at the beginning of the sample preparation to monitor the success of the sample preparation and analytical procedures on an individual sample basis. Individual compounds used as surrogates are selected based on their ability to mimic the behavior of specific target analytes held to be particularly sensitive to the sample preparation manipulations.

Interference Check Samples: Interference check sample analysis is a QC measure unique to metals analysis using inductively coupled plasma atomic emission spectrometry. This QC sample verifies the analytical instrument's ability to overcome interferences typical of those found in samples.

Calibrations: Method requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable quantitative data for metals. Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical run. Continuing calibrations demonstrate that the initial calibration is still valid by checking the performance of the instrument on a continuing basis.

Internal Standards: Internal standard performance criteria ensures that gas chromatograph/ mass spectrometer sensitivity and response are stable during each analysis.

Serial Dilution: Serial dilutions are performed on at least one sample from every batch of analyses for metals to determine if physical or chemical interferences exist in the analyte determinations.

For the Subareas 5D North and 5D South soil data sets, accuracy was evaluated by reviewing the %R values of initial and continuing calibration (percent difference or percent drift [%D] for organic analyses), internal standards, surrogate spikes (organic analyses only), MS/MSD, LCS/LCSD, inductively coupled plasma (ICP) interferences, and by performing serial dilution checks during metals analyses, in conjunction with method blank, calibration blank, equipment rinsate blank, and trip blank results. These QC results assist in identifying the type and magnitude of effects that may have contributed to system error introduced from field and/or laboratory procedures.

Qualifiers were applied to applicable sample results during the validation process based on laboratory accuracy results. Details of the validation and the number of analytes qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C. No qualifiers were applied to applicable sample results based on the accuracy results of the RL-LCS and RL-MS samples. These QC samples are intended to evaluate the effects of the method modifications on the RLs program wide. A statistically robust population of RL-LCS and RL-MS samples has not yet been achieved. When enough data has been collected, decisions regarding the accuracy and precision of these RLs will be addressed by all parties, including possible changes to the RLs.

The following Subarea 5D North individual analyte results were qualified as estimated "J/UJ" based on accuracy criteria:

- Some of the results for dioxins, NDMA, fluoride/nitrate, perchlorates, metals, mercury, alcohols and terphenyls, TPHs and glycols, pesticides, herbicides, VOCs, SVOCs, SVOC SIM, formaldehyde and energetics due to MSs

- Some of the results for metals, TPHs and glycols, pesticides, PCB/PCTs, herbicides, VOCs, SVOCs, SVOC SIM, formaldehyde and energetics due to LCSs
- Some of the results for NDMA, alcohols and terphenyls, pesticides, PCB/PCTs, herbicides, SVOC SIM, and formaldehyde due to surrogates
- Some of the results for pesticides, PCB/PCTs and VOCs due to calibrations
- Some of the metal analyte results due to serial dilutions
- One NDMA result and some of the herbicide results due to holding times

The following individual analyte results were rejected "R" based on accuracy criteria:

- One fluoride result based on MS
- One antimony result based on MS
- Three alcohol and terphenyl results (ethanol, m-terphenyl, and p-terphenyl) based on MS
- Three TPH results (EFH [C12-C14], EFH [C15-C20] and EFH [C8-C11]) based on MS
- Sixty-two pesticide results (from four samples) based on surrogates
- Ten pesticide results (from six samples) based on MSs
- Ten PCB/PCT results (from one sample) based on surrogates
- One herbicide result (dalaphon) (from one sample) based on MS
- Forty-nine herbicide results (dinoseb) (from 49 samples) based on LCSs
- Eleven SVOC results (from 11 samples) based on MSs
- Thirty energetics results (2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene) (from 15 samples) based on LCSs

The following Subarea 5D South individual analyte results were qualified as estimated "J/UJ" based on accuracy criteria:

- Some of the results for dioxins, fluoride/nitrate, metals, pesticides, herbicides, SVOCs and SVOC SIM due to MSs
- Some of the results for perchlorates, PCB/PCTs, herbicides and SVOCs due to LCSs
- Some of the results for pesticides, PCB/PCTs and SVOC SIM due to surrogates
- Some of the metal analyte results due to serial dilutions
- Some of the PCB/PCT results and SVOC results due to calibrations

The following individual analyte results were rejected "R" based on accuracy criteria:

- One pesticide result (4'4-DDD) based on MS
- Sixteen herbicide results (nine for dinoseb and one each for 2,4,5-TP Silvex, 2,4-DB, dalaphon, diacamba, dichloroprop, MCPA and MCPP) based on MSs

- Four SVOC results (benzidine) based on MSs

Sample preservation, handling, and holding times are additional measures of accuracy of the data. Holding times are defined as the amount of time that elapses between collection of the sample in the field to the start of the analysis. Preservation is defined as techniques used to maintain the target analytes at concentrations representative of the source sampled. Published holding times are viewed as valid as long as the associated preservation and container requirements have been met. All holding times, sample preservation and handling criteria were met except for those discussed above and in the DUAR and laboratory validation reports in Appendix C.

In summary, sample results that have been qualified as estimated "J/UJ" due to accuracy criteria are usable for project decisions. Results that have been rejected are not usable.

4.7.3 Blank Contamination

Blanks are used to determine the level of laboratory and field contamination introduced into the samples, independent of the level of target analytes found in the sample source. Sources of sample contamination can include the containers and equipment used to collect the sample, preservatives added to the sample, other samples in transport coolers and laboratory sample storage refrigerators, standards and solutions used to calibrate instruments, glassware and reagents used to process samples, airborne contamination in the laboratory preparation area and the analytical instrument sample introduction equipment. Each analyte group has its own particular suite of common laboratory contaminants. Active measures must be performed to continually measure the ambient contamination level and steps taken to discover the source of the contamination to eliminate or minimize the levels. Random spot contamination can also occur from analytes that are not common laboratory problems but that can arise as a problem for a specific project or over a short period of time. Sample equipment decontamination practices are discussed in Section 2.4.4. Field blanks, equipment blanks, trip blanks and laboratory method blanks are analyzed to identify possible sources of contamination. The DUAR and laboratory validation reports in Appendix C discuss the results that were qualified based on field and laboratory blank contamination.

For Subarea 5D North samples, some dioxins, NDMA, metals, hexavalent chromium, mercury, alcohols and terphenyls, TPH and glycols, PCBs/PCTs, VOCs, SVOCs and SVOC SIM results were qualified as non-detect due to laboratory blank contamination criteria. Some results for NDMA, metals, mercury, VOCs, and SVOC SIM analytes were also qualified based on field blank contamination. For Subarea 5D South samples, some dioxins, metals and mercury analytes were qualified as non-detect due to laboratory blank contamination criteria. Some results for mercury were also qualified based on field blank contamination. The percentage of results qualified as non-detect based on laboratory blank contamination was less than 5 percent, as discussed in Appendix C, for all these analyses except for the following analytes: 50 percent of the dioxins for Subarea 5D North; 40 percent of the dioxins for Subarea 8 South; 11 percent of the NDMA results for Subarea 5D North; and eight percent of the mercury results for Subarea 5D North. These results were qualified as non-detect "U" due to laboratory blank contamination.

For the dioxins, estimated detection limits (EDLs) are calculated for each sample. The EDLs for this analysis are very low, reported in nanogram per kilogram (ng/kg) or parts per trillion, resulting in numerous results qualified as estimated "J" values because they are below the RL. Many of these estimated values have been subsequently qualified as non-detect "U" because the compound was detected in related laboratory blanks. The laboratory blank results correlate to the sample EDLs and

low level detections of dioxin analytes are somewhat inevitable because of the nature and universal extent of the compounds. The dioxin levels found in the blanks were well below site-related action levels. Therefore, the resulting qualification of associated sample results as not detected or "U" qualified data do not falsely diminish identification of site-related contaminants.

The other reported analytes that had blank qualifications greater than 5 percent do not indicate a laboratory blank contamination problem as the overall sample counts for those analytes were low. For example, there were only 214 NDMA samples analyzed for Subarea 5D North and out of those samples 24 NDMA results were qualified due to blank contamination.

Tables 4-2 through 4-5 provide a summary of analytes observed in equipment and trip blank samples. Most of the equipment blanks and trip blanks detected compounds were below the RLs but above the MDLs. Compounds detected above the RL in equipment and trip blanks are highlighted yellow in the associated tables. The ASTM Type II water used to generate the equipment and travel blanks was previously analyzed as a field blank on April 27, 2011. This field blank (source water) had a detect of of naphthalene (above the RL) indicating inherent low level contamination in the source water used.

ASTM Type II water is not typically certified “clean” to the low RLs established for the low level methods used for the co-located sampling program. A review of the ASTM Type II field blanks for all Phase 1 sampling showed one detect of heptachlor, three detects of naphthalene, and one detect of RDX above their respective RL. One field blank had detects above the RLs for four metal analytes and one field blank had detects above the RLs for a variety of VOC analytes. A review of ASTM Type II water field blanks will continue to monitor for detected concentrations of analytes throughout the sampling program.

A review of all Phase 1 equipment blanks was also performed. In general, a variety of analytes were detected above their respective RLs. The most frequently detected analytes were naphthalene, NDMA and RDX. Napthalene was detected in 28 percent of the equipment blanks, NDMA in 27 percent of the equipment blanks and RDX in 26 percent of the equipment blanks. Other analytes were detected in the equipment blanks with methylene chloride being detected in eight percent of the equipment blanks. All other analytes were detected in less than five percent of the equipment blank samples.

Further review of the equipment blanks is being conducted and all Phase 3 equipment blanks collected to-date are being evaluated to determine if these low level detections are consistent indicating a possible deficiency in decontamination procedures and/or source water impacts that need to be addressed and corrected. Associated sample results were qualified accordingly during the validation process regarding field blank contamination. No sample results were rejected due to detected concentrations in field blanks or laboratory blanks.

4.7.4 Representativeness, Comparability, and Sensitivity

Representativeness, comparability, and sensitivity are achieved by using EPA-approved sampling procedures and analytical methodologies. By following the procedures described in the WP/FSAP for this sampling event and future sampling events, sample analysis should yield results representative of environmental conditions at the time of sampling. Similarly, reasonable comparability of analytical results for this and future sampling events can be achieved if approved EPA analytical methods and standardized reporting units are employed.

4.7.4.1 Representativeness

Representativeness is a qualitative term that expresses the degree to which the sample data accurately and precisely represent the environmental conditions corresponding to the location and depth interval of sample collection. Requirements and procedures for sample collection are designed to maximize sample representativeness.

Representativeness also can be monitored by reviewing field documentation and/or performing field audits. For the data associated with this report, a detailed review was performed on the CoC forms, laboratory sample confirmation logs, and data validation packages. Laboratory QA/QC requirements were included in the WP/FSAP (CDM 2011a) and laboratory statements of work (SOWs) to ensure that the laboratory analytical results were representative of true field conditions.

The most significant measure of representativeness is the accuracy of the sampling network and selection of appropriate locations and depths, etc. Field sampling accuracy was attained through adherence to the approved WP/FSAP for sample location and collection and by using approved standard operating procedures for field data collection. Therefore the data should represent, as near as possible, the actual field conditions at the time of sampling.

Representativeness has been achieved by the performed field work and laboratory analyses. The generated analytical data that have not been rejected are viewed to be a representative characterization of the project area.

4.7.4.2 Comparability

Comparability is a qualitative term that expresses the confidence with which a data set can be compared with another. Strict adherence to standard sample collection procedures, analytical detection limits, reporting units and analytical methods assures that data from like samples and sample conditions are comparable. This comparability is independent of laboratory personnel, data reviewers, or sampling personnel. Comparability criteria are met for the project if, based on data review, the sample collection and analytical procedures are determined to have been followed, or defined to show that variations did not affect the values reported.

To ensure comparability of data generated for the site, standard sample collection procedures and DTSC-reviewed analytical methods were utilized by CDM. The sample analyses were performed by LLI. Utilizing such procedures and methods enables the current data to be comparable with previous and future data sets generated using similar methods.

4.7.4.3 Sensitivity

Sensitivity is related to the ability to compare analytical results with project-specific levels of interest, such as risk-based screening levels or action levels. Analytical detection limits for the various sample analytes should be below the level of interest to allow an effective comparison.

Detection Limits

The MDL attempts to answer the question, "What is the lowest level of analyte in a sample that will result in a signal different than zero"? The study is based upon repetitive analysis of an interference-free sample spiked with a known amount of the target analyte. The MDL is a measure of the ability of the test procedure to generate a positive response for the target analyte in the absence of any other interferences from the sample.

The RL is generally defined as the lowest concentration at which an analyte can be detected in a sample and its concentration reported with a reasonable degree of accuracy and precision. For samples that do not pose a particular matrix problem, the RL is typically about three to five times higher than the MDL.

Laboratory results are reported according to rules that provide established certainty of detection and RLs. The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if blank or other QC results fall outside the appropriate tolerance limits.

If an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

RLs for the modified methods identified in Table 2-3 are evaluated through the analysis of RL-LCS and RL-MS samples created by LLI. The evaluation of these QC samples is ongoing throughout all subareas and recommendations regarding program-wide sample qualification based on the RL-LCS and RL-MS QC results have not been finalized. Qualification of individual sample results for Subareas 5D North and 5D South, based on the current RL-LCS and RL-MS QC sample results, was not performed.

Qualifiers were applied to applicable sample results by the laboratory and identified during the validation process based on sample results being reported as detected below the RL/MDL. Details of the validation and the number of results qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C.

In summary, for all methods analyzed for Subarea 5D North, results for some of the analytes were qualified as estimated due to RL criteria except for perchlorate and VOC SIM results. For all methods analyzed for Subarea 5D South, results for some of the analytes were qualified as estimated due to RL criteria except results for NDMA, perchlorates, alcohols and terphenyls, formaldehyde, energetics, and cyanide.

In general, for the data validated in this TM, RLs for the sample results were low enough to compare to the RLs stated in the WP/FSAP (CDM 2011a). The RLs for this project are lower than "normal" environmental data analyses for some classes of compounds. Some analytical laboratory methods were modified in order to achieve the lowest practicable RLs in an attempt to comply with the AOC. All modified analyses are undergoing further studies evaluating the effect of the modifications on precision and accuracy. An independent study evaluating the precision and accuracy of the modified herbicide method has been completed. Review of the herbicide results indicate that the method modifications did not achieve precision and accuracy goals at this lower reporting limit for some of the analytes. Data are currently under further review and it is likely that reporting limits may be elevated for some analytes. These results are still considered usable for project decisions.

4.8 Review of Selected Validation Reports

CDM performed a review of the validation reports identified in Table 4-1. This review involved comparing the validation report results against the laboratory data packages as well as the validation guidance documents. All validation report results were verified against the laboratory data packages and validation guidance documents were followed as required.

4.9 Data Completeness

Completeness of the data collection program is defined as the percentage of locations planned to be sampled versus the actual number of locations sampled during the field program (see equation A).

Completeness for acceptable data is defined as the percentage of acceptable data obtained judged to be valid versus the total quantity of data generated (see equation B). Acceptable data include both data that pass all the QC criteria (unqualified data) and data that may not pass all the QC criteria but had appropriate corrective actions taken (qualified but usable data).

Equation A.

$$\%\text{Completeness} = C \times \frac{100}{n}$$

Where:

C = actual number of locations sampled
n = total number of locations planned

Equation B.

$$\%\text{Completeness} = V \times \frac{100}{n'}$$

Where:

V = number of measurements judged valid
n' = total number of measurements made

The overall completeness goal, as defined in the WP/FSAP (CDM 2011a), for this sampling event is 90 percent for each analytical test for all project data.

A total of 523 Subarea 5D North and 63 Subarea 5D South soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.7, 201 locations were to be sampled in Subarea 5D North and 36 locations in Subarea 5D South. Some locations required only a subsurface sample while other locations required both a surface (or drainage) and subsurface sample. The number of subsurface samples to be collected at each location is not pre-determined because the total depth of each boring varies depending on the local geology. Of the locations to be sampled in Subareas 5D North and 5D South, only two locations (SL-63 and SL-147) in Subarea 5D North and one location (SL-35) in Subarea 5D South had no samples (surface, drainage, or subsurface) collected . The remaining deviations from the proposed sample collection plan for Subareas 5D North and 5D South were due to shallow refusal on bedrock (see Section 2.7). A surface sample was collected at each of these locations.

As discussed in Section 2.7, the sampling deviations do not impact completeness objectives for this sampling program. Ninety-nine percent of the sample locations identified in the WP/FSAP Addendums for Subareas 5D North and 5D South were sampled meeting the completeness goal for the number of locations sampled versus number of locations planned to be sampled.

The completeness goal achieved for acceptable data was 99.82 percent of the number of measurements judged to be valid versus the total number of measurements made for all Subarea 5D North and 99.77 percent for Subarea 5D South samples analyzed. Tables 4-6 and 4-7 summarize all results that were estimated or rejected.

The following Subarea 5D North individual analyte results were rejected per analyses:

- Method 300
  - One out of 706 fluoride results (0.14 percent)
- Method 6020
  - One out of 7,952 antimony results (0.01 percent)
- Method 8015B
  - Three out of 1,254 alcohol/terphenyl individual analyte results (0.24 percent)
- Method 8015M
  - Three out of 1,798 TPH individual analyte results (0.17 percent)
- Method 8081A
  - Seventy-two out of 3,843 individual pesticide analyte results (1.87 percent)
- Method 8082
  - Ten out of 5,964 individual PCB/PCT analyte results (0.17 percent)
- Method 8151A
  - Fifty out of 1,830 individual herbicide analyte results (2.7 percent)
- Method 8270C
  - Eleven out of 24,315 individual SVOC analyte results (0.05 percent)
- Method 8330A
  - Thirty out of 4,248 individual energetic analyte results (0.71 percent)

The following Subarea 5D South individual analyte results were rejected per analyses:

- Method 8081A
  - One out of 672 individual pesticide analyte results (0.15 percent)
- Method 8151A
  - Sixteen out of 310 individual herbicide analyte results (5.16 percent)
- Method 8270C
  - Four out of 2,788 individual SVOC analyte results (0.14 percent)

Table 4-6 Summary of Data Completeness Following Data Validation – Subarea 5D North

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	777	2823		4735	114	8449	100
NDMA	37	41		131	5	214	100
Formaldehyde	5	8		184	12	209	100
Cyanide		2		207		209	100
Fluoride, Nitrate	199	469	1	17	20	706	99.86
Hexavalent Chromium	24	314		156	3	497	100
Mercury	36	192		258	11	497	100
Metals – 6010B	4719	1582		655	2	6958	100
Metals – 6020	2227	5520	1	102	102	7952	99.99
Perchlorate-314	1			493	3	497	100
Perchlorate-6850		9		64		73	100
Alcohols, terphenyls	1	13	3	1215	22	1254	99.76
Energetics	1	11	30	4160	46	4248	99.29
Total Petroleum Hydrocarbons, glycols	278	123	3	1356	38	1798	99.83
PCBs/PCTs	148	223	10	5442	141	5964	99.83
Pesticides	180	390	72	2612	589	3843	98.13
Semivolatiles	64	421	11	23407	412	24315	99.95
Herbicides	82	97	50	1586	15	1830	97.3
Semivolatiles SIM	1116	1193		9102	89	11500	100
Volatiles	79	104		13388	97	13668	100
Volatiles SIM				204		204	100
Completeness Total for All Subarea 5D North Samples Collected and Judged Valid							**99.82**

Table 4-7 Summary of Data Completeness Following Data Validation – Subarea 5D South

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	39	458		485	21	1003	100
Fluoride, Nitrate	16	35		3	8	62	100
NDMA				3		3	100
Formaldehyde				3		3	100
Cyanide				3		3	100
Hexavalent Chromium	8	29		20	2	59	100
Mercury		20		39		59	100
Metals – 6010B	647	114		65		826	100
Metals – 6020	327	599		9	9	944	100
Perchlorate-314	1			58		59	100
Perchlorate-6850		2		4		6	100
PCBs/PCTs	16	55		596	41	708	100
Alcohols, terphenyls				18		18	100
Energetics				54		54	100
Total Petroleum Hydrocarbons, glycols	4	1		22		27	100
Pesticides	35	61	1	537	38	672	99.85
Herbicides	24	10	16	260		310	94.84
Semivolatiles	1	19	4	2748	16	2788	99.86
Semivolatiles SIM	108	230		1113	11	1462	100
Completeness Total for All Subarea 5D South Samples Collected and Judged Valid							**99.77**

The completeness goals for both the locations sampled and the number of measurements judged to be valid were met.

Sampling deviations from procedures described in the WP/FSAP (CDM 2011a) are discussed in Section 2.7 of this TM. Deviations did not impact DQOs for this sampling event. The data reported and not rejected are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM 2011a) met appropriate criteria. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated on which to base project decisions.

4.10 Assessment of Data Usability and Reconciliation with WP/FSAP Goals

Over 99 percent of the data validated for Subareas 5D North and 5D South, and reported in this TM, are suitable for their intended use for site characterization. Sample results that were rejected are not suitable for project use. The rejected analyte results do not impact achievement of the overall project objectives. The RLs reported generally met the expected limits proposed by the analytical laboratory in their contract agreement with CDM.

Sample results that were qualified as estimated are usable for project decisions. Numerous dioxin results were qualified as estimated and/or non-detect due to the low detection limits. This data is considered usable.

Field duplicate precision also met criteria a majority of the time. RPDs were outside criteria predominantly when the sample results were close to the RL and/or below the project required action limits. Decisions based on results close to the RL should be made with a degree of caution. The achievement of the completeness goals for locations sampled, and the number of sample results acceptable for use provides sufficient quality data to support project decisions.

Section 5
References

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CDM. 2011c. *Addendum No. 6 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, EPA Subareas 3, 5D South, 7, and 8 South Soil Sampling.* September 13.

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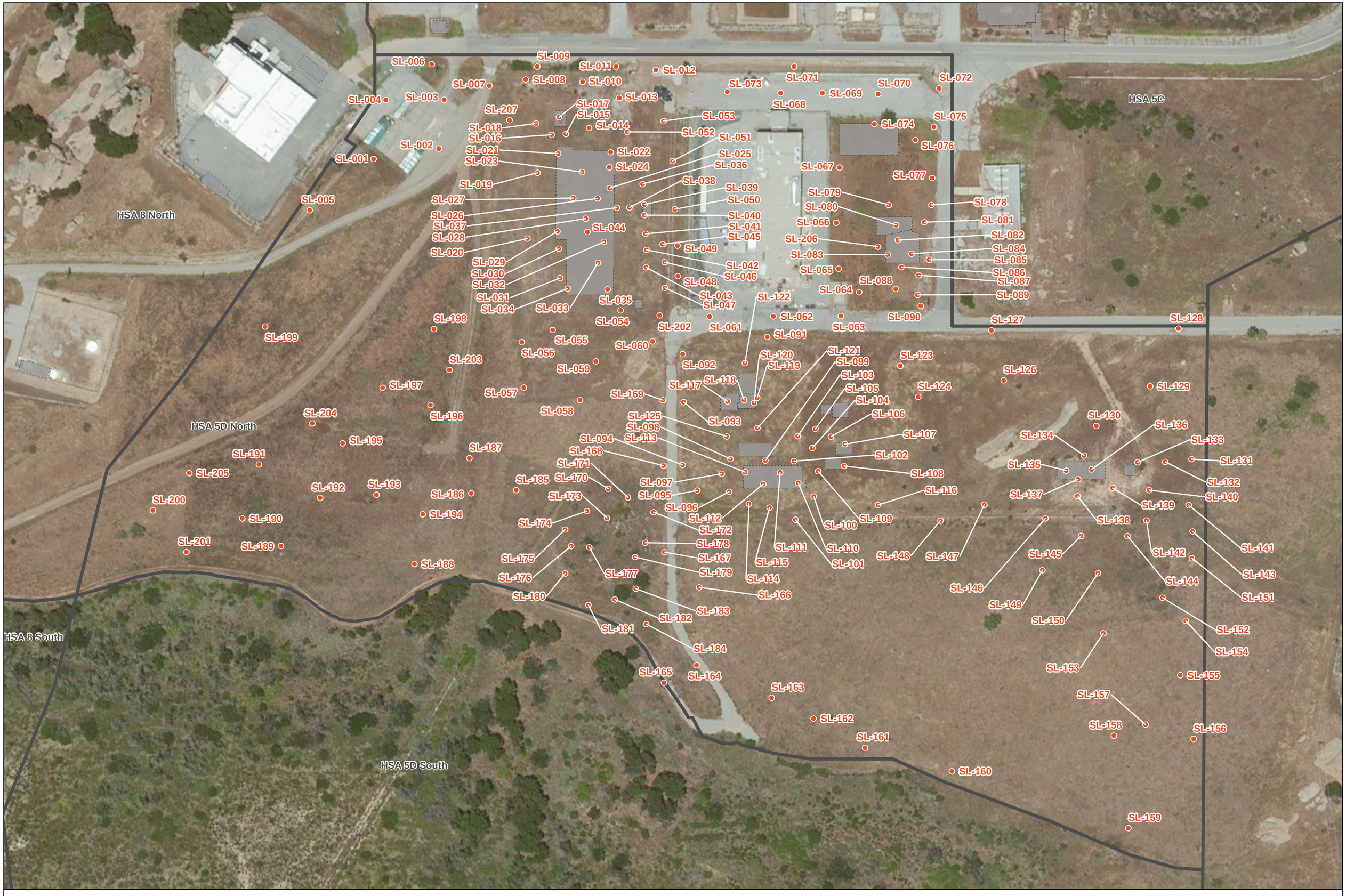
HGL. 2011b. *Subarea 5D South FSP Addendum, Santa Susana Field Laboratory Site, Area IV Radiological Study.* September 13.

MEC^X. 2009. *Quality Assurance Project Plan, Santa Susana Field Laboratory, RCRA Facility Investigation, Surficial Media Operable Unit*. March.



N

Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 5D North Sample Locations

0 40 80 160 240 Feet

Santa Susana Field Laboratory
Ventura County, California
Exhibit 1

CDM Smith

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Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Subarea 5D South Sample Locations

0 50 100 200 300 Feet

Santa Susana Field Laboratory
Ventura County, California
Exhibit 2

CDM Smith

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Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
300	14797-55-8	Nitrate [as N]	
300	14797-55-8	Nitrate	
300	16984-48-8	Fluoride	
9012B	57-12-5	Cyanide	
6010B	7429-90-5	Aluminum	
6010B	7439-89-6	Iron	
6020	7439-92-1	Lead	
6010B	7439-93-2	Lithium	
6010B	7439-95-4	Magnesium	
6010B	7439-96-5	Manganese	
7471A	7439-97-6	Mercury	
6020	7439-98-7	Molybdenum	
6020	7440-02-0	Nickel	
6010B	7440-09-7	Potassium	
6020	7440-22-4	Silver	
6010B	7440-23-5	Sodium	
6010B	7440-24-6	Strontium	
6020	7440-28-0	Thallium	
6010B	7440-31-5	Tin	
6010B	7440-32-6	Titanium	
6020	7440-36-0	Antimony	
6020	7440-38-2	Arsenic	
6020	7440-41-7	Beryllium	
6020	7440-39-3	Barium	
6010B	7440-42-8	Boron	
6020	7440-43-9	Cadmium	
6020	7440-47-3	Chromium	
6020	7440-48-4	Cobalt	
6020	7440-50-8	Copper	
6020	7440-62-2	Vanadium	
6020	7440-66-6	Zinc	
6010B	7440-67-7	Zirconium	
6010B	7440-70-2	Calcium	
6010B	7723-14-0	Phosphorus	
6020	7782-49-2	Selenium	
7199	18540-29-9	Chromium (Hexavalent Compounds)	Chromium VI
314	14797-73-0	Perchlorate	
6850	14797-73-0	Perchlorate	
160.3M	MOIST	Percent Moisture	
9045M	pH	pH	
8315M	60-34-4	Methylhydrazine	
8315M	57-14-7	1,1-Dimethylhydrazine	
8015B	64-17-5	Ethanol	
8015B	67-56-1	Methanol	
8015B	67-63-0	2-Propanol	
8015M	107-21-1	Ethylene Glycol	
8015M	111-46-6	Diethylene Glycol	
8015M	57-55-6	Propylene glycol	
8015B	84-15-1	o-Terphenyl	
8015B	92-06-8	m-Terphenyl	
8015B	92-94-4	p-terphenyl	
8315A	50-00-0	Formaldehyde	
8330A	606-20-2	2,6-Dinitrotoluene	
8330A	118-96-7	2,4,6-Trinitrotoluene	
8330A	121-82-4	1,3,5-Trinitroperhydro-1,3,5-triazine	RDX
8330A	19406-51-0	4-Amino-2,6-Dinitrotoluene	
8330A	2691-41-0	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	HMX
8330A	35572-78-2	2-Amino-4,6-Dinitrotoluene	
8330A	479-45-8	2,4,6-Trinitrophenylmethylnitramin	Tetryl
8330A	55-63-0	Nitroglycerin	
8330A	59229-75-3	2,6-Diamino-4-nitrotoluene	
8330A	6629-29-4	2,4-Diamino-6-nitrotoluene	
8330A	78-11-5	Pentaerythritol Tetranitrate	

Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

8330A	88-72-2	2-Nitrotoluene	
8330A	99-08-1	3-Nitrotoluene	
8330A	99-35-4	1,3,5-Trinitrobenzene	
8330A	99-99-0	4-Nitrotoluene	
8330A	121-14-2	2,4-Dinitrotoluene	
8330A	98-95-3	Nitrobenzene	
8330A	99-65-0	m-Dinitrobenzene	
8151A	120-36-5	Dichlorprop	
8151A	1918-00-9	Dicamba	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	
8151A	88-85-7	Dinitrobutyl Phenol	
8151A	93-65-2	Methylchlorophenoxypropionic acid	MCPP
8151A	93-72-1	2,4,5-Trichlorophenoxyacetic acid	Silvex (2,4,5-TP)
8151A	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	2,4,5-T
8151A	94-74-6	2-Methyl-4-Chlorophenoxyacetic Acid	MCPA
8151A	94-75-7	Dichlorophenoxyacetic Acid	2,4-D
8151A	94-82-6	4-(2,4-dichlorophenoxy)butanoic acid	2,4 DB
8081A	8001-35-2	Chlorinated Camphene	Toxaphene
8081A	1024-57-3	Heptachlor Epoxide	
8081A	1031-07-8	Endosulfan Sulfate	
8081A	2385-85-5	Mirex	
8081A	309-00-2	Aldrin	
8081A	319-84-6	Alpha-BHC	
8081A	319-85-7	Beta-BHC	
8081A	319-86-8	Delta-BHC	
8081A	33213-65-9	Endosulfan II	
8081A	50-29-3	4,4'-DDT	
8081A	53494-70-5	Endrin Ketone	
8081A	57-74-9	Chlordane	
8081A	58-89-9	Gamma-BHC (Lindane)	
8081A	60-57-1	Dieldrin	
8081A	72-20-8	Endrin	
8081A	72-43-5	Methoxychlor	
8081A	72-54-8	4,4'-DDD	
8081A	72-55-9	4,4'-DDE	
8081A	7421-93-4	Endrin Aldehyde	
8081A	76-44-8	Heptachlor	
8081A	959-98-8	Endosulfan I	
1613B	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1,2,3,7,8,9-HxCDD
1613B	3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	OCDD
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1,2,3,4,6,7,8-HpCDD
1613B	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	OCDF
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,4,7,8-HxCDD
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1,2,3,7,8-PeCDD
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF
1613B	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF
1613B	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF
1613B	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,6,7,8-HxCDD
1613B	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF
1613B	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF
1613B	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF
1613B	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF
8082	11096-82-5	Aroclor 1260	
8082	11097-69-1	Aroclor 1254	
8082	11100-14-4	Aroclor 1268	
8082	11104-28-2	Aroclor 1221	
8082	11126-42-4	Aroclor 5460	
8082	11141-16-5	Aroclor 1232	
8082	12642-23-8	Aroclor 5442	
8082	12672-29-6	Aroclor 1248	
8082	12674-11-2	Aroclor 1016	

8082	37324-23-5	Aroclor 1262	
8082	53469-21-9	Aroclor 1242	
8082	63496-31-1	Aroclor 5432	
1625C	62-75-9	N-Nitrosodimethylamine	
8270C SIM	62-75-9	N-Nitrosodimethylamine	
8270C	121-14-2	2,4-Dinitrotoluene	
8270C	98-95-3	Nitrobenzene	
8270C	106-46-7	1,4-Dichlorobenzene	
8270C	120-82-1	1,2,4-Trichlorobenzene	
8270C	541-73-1	1,3-Dichlorobenzene	
8270C	87-68-3	Hexachlorobutadiene	
8270C	95-50-1	1,2-Dichlorobenzene	
8270C	100-01-6	4-Nitroaniline	
8270C	100-02-7	4-Nitrophenol	
8270C	101-55-3	4-Bromophenyl Phenyl Ether	
8270C	105-67-9	2,4-Dimethylphenol	
8270C	106-44-5	4-Methylphenol	
8270C	106-47-8	4-Chloroaniline	
8270C	108-68-9	3,5-Dimethylphenol	
8270C	108-95-2	Phenol	
8270C	111-44-4	Bis(2-Chloroethyl) ether	
8270C	111-91-1	Bis(2-Chloroethoxy) methane	
8270C	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C SIM	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C	117-84-0	Di-N-Octyl Phthalate	
8270C SIM	117-84-0	Di-N-Octyl Phthalate	
8270C	118-74-1	Hexachlorobenzene	
8270C SIM	120-12-7	Anthracene	
8270C	120-83-2	2,4-Dichlorophenol	
8270C	122-66-7	1,2-Diphenylhydrazine	
8270C	129-00-0	Pyrene	
8270C SIM	129-00-0	Pyrene	
8270C	131-11-3	Dimethylphthalate	
8270C SIM	131-11-3	Dimethylphthalate	
8270C	132-64-9	Dibenzofuran	
8270C	191-24-2	Benzo(g,h,i)perylene	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	
8270C	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C SIM	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C	205-99-2	Benzo(b)fluoranthene	
8270C SIM	205-99-2	Benzo(b)fluoranthene	
8270C	206-44-0	Fluoranthene	
8270C SIM	206-44-0	Fluoranthene	
8270C	207-08-9	Benzo(k)fluoranthene	
8270C SIM	207-08-9	Benzo(k)fluoranthene	
8270C SIM	208-96-8	Acenaphthylene	
8270C	218-01-9	Chrysene	
8270C SIM	218-01-9	Chrysene	
8270C	39638-32-9	bis(2-Chloroisopropyl) ether	
8270C	50-32-8	Benzo(a)pyrene	
8270C SIM	50-32-8	Benzo(a)pyrene	
8270C	51-28-5	2,4-Dinitrophenol	
8270C	534-52-1	4,6-Dinitro-2-Methylphenol	
8270C	53-70-3	Dibenzo(a,h)anthracene	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	
8270C	56-55-3	Benzo(a)anthracene	
8270C SIM	56-55-3	Benzo(a)anthracene	
8270C	59-50-7	4-Chloro-3-Methylphenol	
8270C	621-64-7	N-Nitroso-Di-N-Propylamine	
8270C	62-53-3	Aniline	
8270C	65-85-0	Benzoic Acid	
8270C	67-72-1	Hexachloroethane	
8270C	7005-72-3	4-Chlorophenyl Phenylether	
8270C	77-47-4	Hexachlorocyclopentadiene	

8270C	78-59-1	Isophorone	
8270C SIM	83-32-9	Acenaphthene	
8270C	84-66-2	Diethylphthalate	
8270C SIM	84-66-2	Diethylphthalate	
8270C	84-74-2	Di-N-Butylphthalate	
8270C SIM	84-74-2	Di-N-Butylphthalate	
8270C	85-01-8	Phenanthrene	
8270C SIM	85-01-8	Phenanthrene	
8270C	85-68-7	Butylbenzylphthalate	
8270C SIM	85-68-7	Butylbenzylphthalate	
8270C	86-30-6	N-Nitrosodiphenylamine	
8270C SIM	86-73-7	Fluorene	
8270C	86-74-8	Carbazole	
8270C	87-86-5	Pentachlorophenol	
8270C	88-06-2	2,4,6-Trichlorophenol	
8270C	88-74-4	2-Nitroaniline	
8270C	88-75-5	2-Nitrophenol	
8270C	90-12-0	1-Methylnaphthalene	
8270C SIM	90-12-0	1-Methylnaphthalene	
8270C	91-20-3	Naphthalene	
8270C SIM	91-20-3	Naphthalene	
8270C	91-57-6	2-Methylnaphthalene	
8270C SIM	91-57-6	2-Methylnaphthalene	
8270C	91-58-7	2-Chloronaphthalene	
8270C	91-94-1	3,3`-Dichlorobenzidine	
8270C	92-87-5	Benzidine	
8270C	95-48-7	2-Methylphenol	
8270C	95-57-8	2-Chlorophenol	
8270C	95-95-4	2,4,5-Trichlorophenol	
8270C	99-09-2	3-Nitroaniline	
8270C	100-51-6	Benzyl Alcohol	
8270C	606-20-2	2,6-Dinitrotoluene	
8015M	GROC5C12	Gasoline Range Organices (C5-C12)	GRO (C5-C12)
8015M	PHCC15C20	Extractable Fuel Hydrocarbons (C15-C20)	EFH (C15-C20)
8015M	PHCC21C30	Extractable Fuel Hydrocarbons (C21-C30)	EFH (C21-C30)
8015M	PHCC30C40	Extractable Fuel Hydrocarbons (C30-C40)	EFH (C30-C40)
8015M	PHCC8C11	Extractable Fuel Hydrocarbons (C8-C11)	EFH (C8-C11)
8260B	106-46-7	1,4-Dichlorobenzene	
8260B	120-82-1	1,2,4-Trichlorobenzene	
8260B	541-73-1	1,3-Dichlorobenzene	
8260B	87-68-3	Hexachlorobutadiene	
8260B	95-50-1	1,2-Dichlorobenzene	
8260B	99-87-6	Isopropyltoluene	
8260B	100-41-4	Ethylbenzene	
8260B	100-42-5	Styrene	
8260B	10061-01-5	cis-1,3-Dichloropropene	
8260B	10061-02-6	trans-1,3-Dichloropropene	
8260B	103-65-1	N-Propylbenzene	
8260B	104-51-8	N-Butylbenzene	
8260B	106-43-4	4-Chlorotoluene	
8260B	106-93-4	1,2-Dibromoethane	
8260B	107-06-2	1,2-Dichloroethane	
8260B	108-10-1	4-Methyl-2-Pentanone	
8260B	108-67-8	1,3,5-Trimethylbenzene	
8260B	108-86-1	Bromobenzene	
8260B	108-88-3	Toluene	
8260B	108-90-7	Chlorobenzene	
8260B	110-75-8	2-Chloroethyl Vinyl Ether	
8260B SIM	123-91-1	1,4-Dioxane	
8260B	124-48-1	Dibromochloromethane	
8260B	127-18-4	Tetrachloroethene	
8260B	135-98-8	sec-Butylbenzene	
8260B	142-28-9	1,3-Dichloropropane	
8260B	156-59-2	cis-1,2-Dichloroethene	

8260B	156-60-5	trans-1,2-Dichloroethene	
8260B	1634-04-4	Methyl tert-Butyl Ether	
8260B	179601-23-1	m,p-Xylene	
8260B	56-23-5	Carbon tetrachloride	
8260B	563-58-6	1,1-Dichloropropene	
8260B	591-78-6	2-Hexanone	
8260B	594-20-7	2,2-Dichloropropane	
8260B	630-20-6	1,1,1,2-Tetrachloroethane	
8260B	67-64-1	Acetone	
8260B	67-66-3	Chloroform	
8260B	71-43-2	Benzene	
8260B	71-55-6	1,1,1-Trichloroethane	
8260B	74-83-9	Bromomethane	
8260B	74-87-3	Chloromethane	
8260B	74-95-3	Dibromomethane	
8260B	74-97-5	Bromochloromethane	
8260B	75-00-3	Chloroethane	
8260B	75-01-4	Vinyl Chloride	
8260B	75-09-2	Methylene chloride	
8260B	75-25-2	Bromoform	
8260B	75-27-4	Bromodichloromethane	
8260B	75-34-3	1,1-Dichloroethane	
8260B	75-35-4	1,1-Dichloroethene	
8260B	75-69-4	Trichlorofluoromethane	
8260B	75-71-8	Dichlorodifluoromethane	
8260B	75-88-7	1,1,1-Trichloro-2,2,2-trifluoroethane	Freon 113a
8260B	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	Freon 113
8260B	78-87-5	1,2-Dichloropropane	
8260B	78-93-3	2-Butanone	
8260B	79-00-5	1,1,2-Trichloroethane	
8260B	79-01-6	Trichloroethene	
8260B	79-34-5	1,1,2,2-Tetrachloroethane	
8260B	79-38-9	Chlorotrifluoroethene	
8260B	87-61-6	1,2,3-Trichlorobenzene	
8260B	95-47-6	o-Xylene	
8260B	95-49-8	2-Chlorotoluene	
8260B	95-63-6	1,2,4-Trimethylbenzene	
8260B	96-12-8	1,2-Dibromo-3-chloropropane	
8260B	96-18-4	1,2,3-Trichloropropane	
8260B	98-06-6	tert-Butylbenzene	
8260B	98-82-8	Isopropylbenzene	

SSFL Main Qualification Definitions and Notes

NOTE: In the Appendix A tables, samples that were analyzed by Lancaster Laboratories are identified with the letter "N" in the sample type code and samples analyzed by EMAX are identified with the word "Split" in the sample type code. These samples are also sample splits of one sample location.

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

R – The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.

UJ – The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

SSFL Specific Qualification Definitions

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD, r, r2 or %D were noncompliant	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits
B	Presumed contamination from preparation (method blank)	Presumed contamination from preparation (method) blank or calibration blank
L	Laboratory Control Sample/Laboratory Control Sample Duplicate %R was not within control limits	Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits
Q	MS/MSD recovery was poor; RPD	MS/MSD recovery was poor.
E	LCS/LCSD RPD	MS/MSD or Duplicate RPD or difference was high.
I	Internal standard performance was unsatisfactory	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits
M	Instrument Performance Check (BFB or DFTPP) was noncompliant	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor	Post Digestion Spike recovery was not within control limits
K	EMPC	Not applicable
Z	Compounds reported below the RL	Analytes reported below the RL and above the MDL
***#**	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the section in the validation report where a description of the problem can be found.	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the section in the validation report where a description of the problem can be found.

Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
300	14797-55-8	Nitrate [as N]	
300	14797-55-8	Nitrate	
300	16984-48-8	Fluoride	
9012B	57-12-5	Cyanide	
6010B	7429-90-5	Aluminum	
6010B	7439-89-6	Iron	
6020	7439-92-1	Lead	
6010B	7439-93-2	Lithium	
6010B	7439-95-4	Magnesium	
6010B	7439-96-5	Manganese	
7471A	7439-97-6	Mercury	
6020	7439-98-7	Molybdenum	
6020	7440-02-0	Nickel	
6010B	7440-09-7	Potassium	
6020	7440-22-4	Silver	
6010B	7440-23-5	Sodium	
6010B	7440-24-6	Strontium	
6020	7440-28-0	Thallium	
6010B	7440-31-5	Tin	
6010B	7440-32-6	Titanium	
6020	7440-36-0	Antimony	
6020	7440-38-2	Arsenic	
6020	7440-41-7	Beryllium	
6020	7440-39-3	Barium	
6010B	7440-42-8	Boron	
6020	7440-43-9	Cadmium	
6020	7440-47-3	Chromium	
6020	7440-48-4	Cobalt	
6020	7440-50-8	Copper	
6020	7440-62-2	Vanadium	
6020	7440-66-6	Zinc	
6010B	7440-67-7	Zirconium	
6010B	7440-70-2	Calcium	
6010B	7723-14-0	Phosphorus	
6020	7782-49-2	Selenium	
7199	18540-29-9	Chromium (Hexavalent Compounds)	Chromium VI
314	14797-73-0	Perchlorate	
6850	14797-73-0	Perchlorate	
160.3M	MOIST	Percent Moisture	
9045M	pH	pH	
8315M	60-34-4	Methylhydrazine	
8315M	57-14-7	1,1-Dimethylhydrazine	
8015B	64-17-5	Ethanol	
8015B	67-56-1	Methanol	
8015B	67-63-0	2-Propanol	
8015M	107-21-1	Ethylene Glycol	
8015M	111-46-6	Diethylene Glycol	
8015M	57-55-6	Propylene glycol	
8015B	84-15-1	o-Terphenyl	
8015B	92-06-8	m-Terphenyl	
8015B	92-94-4	p-terphenyl	
8315A	50-00-0	Formaldehyde	
8330A	606-20-2	2,6-Dinitrotoluene	
8330A	118-96-7	2,4,6-Trinitrotoluene	
8330A	121-82-4	1,3,5-Trinitroperhydro-1,3,5-triazine	RDX
8330A	19406-51-0	4-Amino-2,6-Dinitrotoluene	
8330A	2691-41-0	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	HMX
8330A	35572-78-2	2-Amino-4,6-Dinitrotoluene	
8330A	479-45-8	2,4,6-Trinitrophenylmethylnitramin	Tetryl
8330A	55-63-0	Nitroglycerin	
8330A	59229-75-3	2,6-Diamino-4-nitrotoluene	
8330A	6629-29-4	2,4-Diamino-6-nitrotoluene	
8330A	78-11-5	Pentaerythritol Tetranitrate	

Appendix A1
Analytical Method, CAS Number and Chemical Name
HSA-8N and 8S

8330A	88-72-2	2-Nitrotoluene	
8330A	99-08-1	3-Nitrotoluene	
8330A	99-35-4	1,3,5-Trinitrobenzene	
8330A	99-99-0	4-Nitrotoluene	
8330A	121-14-2	2,4-Dinitrotoluene	
8330A	98-95-3	Nitrobenzene	
8330A	99-65-0	m-Dinitrobenzene	
8151A	120-36-5	Dichlorprop	
8151A	1918-00-9	Dicamba	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	
8151A	88-85-7	Dinitrobutyl Phenol	
8151A	93-65-2	Methylchlorophenoxypropionic acid	MCPP
8151A	93-72-1	2,4,5-Trichlorophenoxyacetic acid	Silvex (2,4,5-TP)
8151A	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	2,4,5-T
8151A	94-74-6	2-Methyl-4-Chlorophenoxyacetic Acid	MCPA
8151A	94-75-7	Dichlorophenoxyacetic Acid	2,4-D
8151A	94-82-6	4-(2,4-dichlorophenoxy)butanoic acid	2,4 DB
8081A	8001-35-2	Chlorinated Camphene	Toxaphene
8081A	1024-57-3	Heptachlor Epoxide	
8081A	1031-07-8	Endosulfan Sulfate	
8081A	2385-85-5	Mirex	
8081A	309-00-2	Aldrin	
8081A	319-84-6	Alpha-BHC	
8081A	319-85-7	Beta-BHC	
8081A	319-86-8	Delta-BHC	
8081A	33213-65-9	Endosulfan II	
8081A	50-29-3	4,4'-DDT	
8081A	53494-70-5	Endrin Ketone	
8081A	57-74-9	Chlordane	
8081A	58-89-9	Gamma-BHC (Lindane)	
8081A	60-57-1	Dieldrin	
8081A	72-20-8	Endrin	
8081A	72-43-5	Methoxychlor	
8081A	72-54-8	4,4'-DDD	
8081A	72-55-9	4,4'-DDE	
8081A	7421-93-4	Endrin Aldehyde	
8081A	76-44-8	Heptachlor	
8081A	959-98-8	Endosulfan I	
1613B	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1,2,3,7,8,9-HxCDD
1613B	3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	OCDD
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1,2,3,4,6,7,8-HpCDD
1613B	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	OCDF
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,4,7,8-HxCDD
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1,2,3,7,8-PeCDD
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF
1613B	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF
1613B	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF
1613B	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,6,7,8-HxCDD
1613B	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF
1613B	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF
1613B	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF
1613B	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF
8082	11096-82-5	Aroclor 1260	
8082	11097-69-1	Aroclor 1254	
8082	11100-14-4	Aroclor 1268	
8082	11104-28-2	Aroclor 1221	
8082	11126-42-4	Aroclor 5460	
8082	11141-16-5	Aroclor 1232	
8082	12642-23-8	Aroclor 5442	
8082	12672-29-6	Aroclor 1248	
8082	12674-11-2	Aroclor 1016	

8082	37324-23-5	Aroclor 1262	
8082	53469-21-9	Aroclor 1242	
8082	63496-31-1	Aroclor 5432	
1625C	62-75-9	N-Nitrosodimethylamine	
8270C SIM	62-75-9	N-Nitrosodimethylamine	
8270C	121-14-2	2,4-Dinitrotoluene	
8270C	98-95-3	Nitrobenzene	
8270C	106-46-7	1,4-Dichlorobenzene	
8270C	120-82-1	1,2,4-Trichlorobenzene	
8270C	541-73-1	1,3-Dichlorobenzene	
8270C	87-68-3	Hexachlorobutadiene	
8270C	95-50-1	1,2-Dichlorobenzene	
8270C	100-01-6	4-Nitroaniline	
8270C	100-02-7	4-Nitrophenol	
8270C	101-55-3	4-Bromophenyl Phenyl Ether	
8270C	105-67-9	2,4-Dimethylphenol	
8270C	106-44-5	4-Methylphenol	
8270C	106-47-8	4-Chloroaniline	
8270C	108-68-9	3,5-Dimethylphenol	
8270C	108-95-2	Phenol	
8270C	111-44-4	Bis(2-Chloroethyl) ether	
8270C	111-91-1	Bis(2-Chloroethoxy) methane	
8270C	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C SIM	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C	117-84-0	Di-N-Octyl Phthalate	
8270C SIM	117-84-0	Di-N-Octyl Phthalate	
8270C	118-74-1	Hexachlorobenzene	
8270C SIM	120-12-7	Anthracene	
8270C	120-83-2	2,4-Dichlorophenol	
8270C	122-66-7	1,2-Diphenylhydrazine	
8270C	129-00-0	Pyrene	
8270C SIM	129-00-0	Pyrene	
8270C	131-11-3	Dimethylphthalate	
8270C SIM	131-11-3	Dimethylphthalate	
8270C	132-64-9	Dibenzofuran	
8270C	191-24-2	Benzo(g,h,i)perylene	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	
8270C	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C SIM	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C	205-99-2	Benzo(b)fluoranthene	
8270C SIM	205-99-2	Benzo(b)fluoranthene	
8270C	206-44-0	Fluoranthene	
8270C SIM	206-44-0	Fluoranthene	
8270C	207-08-9	Benzo(k)fluoranthene	
8270C SIM	207-08-9	Benzo(k)fluoranthene	
8270C SIM	208-96-8	Acenaphthylene	
8270C	218-01-9	Chrysene	
8270C SIM	218-01-9	Chrysene	
8270C	39638-32-9	bis(2-Chloroisopropyl) ether	
8270C	50-32-8	Benzo(a)pyrene	
8270C SIM	50-32-8	Benzo(a)pyrene	
8270C	51-28-5	2,4-Dinitrophenol	
8270C	534-52-1	4,6-Dinitro-2-Methylphenol	
8270C	53-70-3	Dibenzo(a,h)anthracene	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	
8270C	56-55-3	Benzo(a)anthracene	
8270C SIM	56-55-3	Benzo(a)anthracene	
8270C	59-50-7	4-Chloro-3-Methylphenol	
8270C	621-64-7	N-Nitroso-Di-N-Propylamine	
8270C	62-53-3	Aniline	
8270C	65-85-0	Benzoic Acid	
8270C	67-72-1	Hexachloroethane	
8270C	7005-72-3	4-Chlorophenyl Phenylether	
8270C	77-47-4	Hexachlorocyclopentadiene	

8270C	78-59-1	Isophorone	
8270C SIM	83-32-9	Acenaphthene	
8270C	84-66-2	Diethylphthalate	
8270C SIM	84-66-2	Diethylphthalate	
8270C	84-74-2	Di-N-Butylphthalate	
8270C SIM	84-74-2	Di-N-Butylphthalate	
8270C	85-01-8	Phenanthrene	
8270C SIM	85-01-8	Phenanthrene	
8270C	85-68-7	Butylbenzylphthalate	
8270C SIM	85-68-7	Butylbenzylphthalate	
8270C	86-30-6	N-Nitrosodiphenylamine	
8270C SIM	86-73-7	Fluorene	
8270C	86-74-8	Carbazole	
8270C	87-86-5	Pentachlorophenol	
8270C	88-06-2	2,4,6-Trichlorophenol	
8270C	88-74-4	2-Nitroaniline	
8270C	88-75-5	2-Nitrophenol	
8270C	90-12-0	1-Methylnaphthalene	
8270C SIM	90-12-0	1-Methylnaphthalene	
8270C	91-20-3	Naphthalene	
8270C SIM	91-20-3	Naphthalene	
8270C	91-57-6	2-Methylnaphthalene	
8270C SIM	91-57-6	2-Methylnaphthalene	
8270C	91-58-7	2-Chloronaphthalene	
8270C	91-94-1	3,3`-Dichlorobenzidine	
8270C	92-87-5	Benzidine	
8270C	95-48-7	2-Methylphenol	
8270C	95-57-8	2-Chlorophenol	
8270C	95-95-4	2,4,5-Trichlorophenol	
8270C	99-09-2	3-Nitroaniline	
8270C	100-51-6	Benzyl Alcohol	
8270C	606-20-2	2,6-Dinitrotoluene	
8015M	GROC5C12	Gasoline Range Organices (C5-C12)	GRO (C5-C12)
8015M	PHCC15C20	Extractable Fuel Hydrocarbons (C15-C20)	EFH (C15-C20)
8015M	PHCC21C30	Extractable Fuel Hydrocarbons (C21-C30)	EFH (C21-C30)
8015M	PHCC30C40	Extractable Fuel Hydrocarbons (C30-C40)	EFH (C30-C40)
8015M	PHCC8C11	Extractable Fuel Hydrocarbons (C8-C11)	EFH (C8-C11)
8260B	106-46-7	1,4-Dichlorobenzene	
8260B	120-82-1	1,2,4-Trichlorobenzene	
8260B	541-73-1	1,3-Dichlorobenzene	
8260B	87-68-3	Hexachlorobutadiene	
8260B	95-50-1	1,2-Dichlorobenzene	
8260B	99-87-6	Isopropyltoluene	
8260B	100-41-4	Ethylbenzene	
8260B	100-42-5	Styrene	
8260B	10061-01-5	cis-1,3-Dichloropropene	
8260B	10061-02-6	trans-1,3-Dichloropropene	
8260B	103-65-1	N-Propylbenzene	
8260B	104-51-8	N-Butylbenzene	
8260B	106-43-4	4-Chlorotoluene	
8260B	106-93-4	1,2-Dibromoethane	
8260B	107-06-2	1,2-Dichloroethane	
8260B	108-10-1	4-Methyl-2-Pentanone	
8260B	108-67-8	1,3,5-Trimethylbenzene	
8260B	108-86-1	Bromobenzene	
8260B	108-88-3	Toluene	
8260B	108-90-7	Chlorobenzene	
8260B	110-75-8	2-Chloroethyl Vinyl Ether	
8260B SIM	123-91-1	1,4-Dioxane	
8260B	124-48-1	Dibromochloromethane	
8260B	127-18-4	Tetrachloroethene	
8260B	135-98-8	sec-Butylbenzene	
8260B	142-28-9	1,3-Dichloropropane	
8260B	156-59-2	cis-1,2-Dichloroethene	

8260B	156-60-5	trans-1,2-Dichloroethene	
8260B	1634-04-4	Methyl tert-Butyl Ether	
8260B	179601-23-1	m,p-Xylene	
8260B	56-23-5	Carbon tetrachloride	
8260B	563-58-6	1,1-Dichloropropene	
8260B	591-78-6	2-Hexanone	
8260B	594-20-7	2,2-Dichloropropane	
8260B	630-20-6	1,1,1,2-Tetrachloroethane	
8260B	67-64-1	Acetone	
8260B	67-66-3	Chloroform	
8260B	71-43-2	Benzene	
8260B	71-55-6	1,1,1-Trichloroethane	
8260B	74-83-9	Bromomethane	
8260B	74-87-3	Chloromethane	
8260B	74-95-3	Dibromomethane	
8260B	74-97-5	Bromochloromethane	
8260B	75-00-3	Chloroethane	
8260B	75-01-4	Vinyl Chloride	
8260B	75-09-2	Methylene chloride	
8260B	75-25-2	Bromoform	
8260B	75-27-4	Bromodichloromethane	
8260B	75-34-3	1,1-Dichloroethane	
8260B	75-35-4	1,1-Dichloroethene	
8260B	75-69-4	Trichlorofluoromethane	
8260B	75-71-8	Dichlorodifluoromethane	
8260B	75-88-7	1,1,1-Trichloro-2,2,2-trifluoroethane	Freon 113a
8260B	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	Freon 113
8260B	78-87-5	1,2-Dichloropropane	
8260B	78-93-3	2-Butanone	
8260B	79-00-5	1,1,2-Trichloroethane	
8260B	79-01-6	Trichloroethene	
8260B	79-34-5	1,1,2,2-Tetrachloroethane	
8260B	79-38-9	Chlorotrifluoroethene	
8260B	87-61-6	1,2,3-Trichlorobenzene	
8260B	95-47-6	o-Xylene	
8260B	95-49-8	2-Chlorotoluene	
8260B	95-63-6	1,2,4-Trimethylbenzene	
8260B	96-12-8	1,2-Dibromo-3-chloropropane	
8260B	96-18-4	1,2,3-Trichloropropane	
8260B	98-06-6	tert-Butylbenzene	
8260B	98-82-8	Isopropylbenzene	

Sample Name		SL-001-SA5DN-SS-0.0-0.5	SL-001-SA5DN-SB-5.5-6.5	SL-001-SA5DN-SB-9.0-10.0	SL-002-SA5DN-SS-0.0-0.5	SL-002-SA5DN-SB-4.0-5.0	SL-002-SA5DN-SB-9.0-10.0	SL-003-SA5DN-SB-0.5-1.5
Sample Date		05/25/2011	05/17/2011	05/17/2011	05/25/2011	05/16/2011	05/16/2011	05/16/2011
SDG		DE163	DE153	DE153	DE163	DE151	DE151	DE151
Start Depth		0	5.5	9	0	4	9	0.5
End Depth		0.5	6.5	10	0.5	5	10	1.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	1.6 J Z
Fluoride	mg/kg	1.9 J Q	5	9.7	2.9 J Q	24.2 J Q	12.6 J Q	7.0 J Q
Cyanide	mg/kg	--	--	--	--	--	--	0.60 U
Aluminum	mg/kg	33600	23000	21900	14100	34000	29300	32800
Iron	mg/kg	33400	29700	26000	19000	33800	35000	35100
Lead	mg/kg	13.6 J Q	13.6 J E	7.70 J E	7.41 J Q	13.0 J Q	10.5 J Q	14.0 J Q
Lithium	mg/kg	26.2	24.7	21.5	13.6	28.4	28.3	26.1
Magnesium	mg/kg	6930	7420	5270	4670	7000	6960	7060
Manganese	mg/kg	431	577	617	317	515 J E	517 J E	698 J E
Mercury	mg/kg	0.0067 J Q, E, Z	0.110 U	0.110 U	0.0228 J Q, E, Z	0.113 U	0.111 U	0.112 U
Molybdenum	mg/kg	0.479	0.476	0.34	0.575	0.423 J Q	0.651 J Q	0.723 J Q
Nickel	mg/kg	22.1 J Q	33.1 J Q	16.4 J Q	10.9 J Q	32.7 J Q	25.6 J Q	30.3 J Q
Potassium	mg/kg	5560	3250 J Q	2910 J Q	2580	3130 J E	3300 J E	4160 J E
Silver	mg/kg	0.0456 J Z	0.0732 J Q, Z	0.0335 J Q, Z	0.0310 J Z	0.0765 J E, Z	0.0385 J E, Z	0.0639 J E, Z
Sodium	mg/kg	87.6 J Z	420	418	245	659	739	208
Strontium	mg/kg	34.8 J E	43.7	25.4	36.2 J E	61.6	55	43.6
Thallium	mg/kg	0.365	0.465 J Q	0.280 J Q	0.17	0.402	0.425	0.514
Tin	mg/kg	11.0 U B	11.5 U B	11.1 U B	10.0 U B	11.5 U B	11.4 U B	11.7 U B
Titanium	mg/kg	1330	494	1070	884	1100	1390	1180
Antimony	mg/kg	0.116 J Q, Z	0.208 J Q, E, Z	0.109 J Q, E, Z	0.123 J Q, Z	0.446 J Q	0.425 J Q	0.410 J Q
Arsenic	mg/kg	6.08 J Q	8.55 J Q	5.59 J Q	4.68 J Q	8.95 J *#	10.4 J *#	9.73 J *#
Beryllium	mg/kg	0.809	1.18 J Q	0.688 J Q	0.34	1.19 J Q	1.10 J Q	1.21 J Q
Barium	mg/kg	137	205	95.4	92.5	196 J E	165 J E	193 J E
Boron	mg/kg	7.51	20.7	18.2	2.17 J Z	15.5	15	16.5
Cadmium	mg/kg	0.365	0.418 J Q	0.135 J Q	0.205	0.216	0.243	0.157
Chromium	mg/kg	29.4 J A	38.4 J Q	18.4 J Q	18.7 J A	39.9 J Q	35.2 J Q	43.3 J Q
Cobalt	mg/kg	11.3	16.4 J Q	8.94 J Q	6.52	14.9 J E, Q	10.5 J E, Q	14.9 J E, Q
Copper	mg/kg	16.6 J E, Q	23.6 J Q	9.51 J Q	13.8 J E, Q	18.6 J E	19.8 J E	23.1 J E
Vanadium	mg/kg	55.4 J A	64.0 J Q	35.9 J Q	35.2 J A	75.4	70.7	83.2
Zinc	mg/kg	74.5	96.9	54.1	47.1	58.2	66.5	65.2
Zirconium	mg/kg	4.32 J Z	5.75 U	2.39 J Z	3.15 J Z	5.51 J Z	7.08	6.4
Calcium	mg/kg	6900 J E	15200 J E	5370 J E	12600 J E	13300	12000	6790
Phosphorus	mg/kg	328 J E	253 J Q, E	254 J Q, E	436 J E	167	256	239
Selenium	mg/kg	0.219 J Z	0.140 J Z	0.0475 J Z	0.0930 J Z	0.0763 J Z	0.0860 J Z	0.216 J Z
Chromium VI	mg/kg	0.65 J Z	1.2 U	1.1 U	0.46 J Z	1.1 U	1.1 U	0.61 J Z
Perchlorate (314.0)	ug/kg	34.2 U	35.2 U	33.6 U	31.5 U	34.4 U	34.4 U	36.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	6.0 U
Percent Moisture	%	12.4	14.7	10.8	4.9	12.9	12.8	16.7
pH	pH unit	7.6	8.48	8.55	8.3	7.92	8.31	7.7

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-003-SA5DN-SB-8.0-9.0	SL-004-SA5DN-SS-0.0-0.5	SL-004-SA5DN-SB-3.5-4.5	SL-004-SA5DN-SB-9.0-10.0	SL-005-SA5DN-SS-0.0-0.5	SL-005-SA5DN-SB-4.0-5.0	SL-005-SA5DN-SB-9.0-10.0
Sample Date		05/16/2011	05/25/2011	05/16/2011	05/16/2011	05/25/2011	05/17/2011	05/17/2011
SDG		DE151	DE163	DE151	DE151	DE163	DE153	DE153
Start Depth		8	0	3.5	9	0	4	9
End Depth		9	0.5	4.5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	7.8	--	1.5 J Z	7.9	--	--	--
Fluoride	mg/kg	5.8 J Q	2.7 J Q	2.8 J Q	6.7 J Q	2.2 J Q	3.4	7.6
Cyanide	mg/kg	0.56 U	--	0.60 U	0.56 U	--	--	--
Aluminum	mg/kg	22300	18500	33100	27800	32900	27600	25600
Iron	mg/kg	34400	26400	33100	23800	33000	34700	32400
Lead	mg/kg	10.4 J Q	6.28 J Q	13.2 J Q	6.59 J Q	13.6 J Q	10.3 J E	8.34 J E
Lithium	mg/kg	28.6	19.7	25.4	25.5	25.4	27.6	26.4
Magnesium	mg/kg	6350	8040	6740	5230	7320	7870	5890
Manganese	mg/kg	237 J E	229	441 J E	174 J E	465	420	349
Mercury	mg/kg	0.0306 J Z	0.106 UJ E	0.116 U	0.111 U	0.0071 J Q, E, Z	0.114 U	0.111 U
Molybdenum	mg/kg	0.415 J Q	0.347	0.609 J Q	0.426 J Q	0.542	0.318	0.374
Nickel	mg/kg	23.2 J Q	12.9 J Q	25.6 J Q	16.3 J Q	21.6 J Q	24.0 J Q	22.3 J Q
Potassium	mg/kg	2650 J E	2780	4490 J E	2640 J E	6780	4180 J Q	3260 J Q
Silver	mg/kg	0.0713 J E, Z	0.0205 J Z	0.0679 J E, Z	0.0345 J E, Z	0.0414 J Z	0.0426 J Q, Z	0.0785 J Q, Z
Sodium	mg/kg	676	140	236	581	86.7 J Z	132	148
Strontium	mg/kg	52.6	23.1 J E	40.7	86.1	35.5 J E	63.1	40.4
Thallium	mg/kg	0.437	0.229	0.471	0.295	0.356	0.348 J Q	0.335 J Q
Tin	mg/kg	10.8 U B	10.7 U B	11.5 U B	11.0 U B	11.1 U B	11.7 U B	11.0 U B
Titanium	mg/kg	1400	1080	1510	1190	1300	1130	1220
Antimony	mg/kg	0.246 J Q	0.214 UJ Q	0.392 J Q	0.270 J Q	0.163 J Q, Z	0.159 J Q, E, Z	0.205 J Q, E, Z
Arsenic	mg/kg	11.2 J *#	2.36 J Q	6.72 J *#	5.52 J *#	5.74 J Q	7.01 J Q	8.32 J Q
Beryllium	mg/kg	1.04 J Q	0.564	1.10 J Q	0.735 J Q	0.783	0.878 J Q	0.996 J Q
Barium	mg/kg	149 J E	91.3	174 J E	121 J E	128	139	146
Boron	mg/kg	10.9	5.35 U	18	12.7	9.8	25.6	19.7
Cadmium	mg/kg	0.306	0.0740 J Z	0.418	0.15	0.424	0.441 J Q	0.252 J Q
Chromium	mg/kg	36.3 J Q	15.3 J A	40.0 J Q	24.6 J Q	29.1 J A	32.5 J Q	30.9 J Q
Cobalt	mg/kg	8.24 J E, Q	8.37	11.7 J E, Q	6.83 J E, Q	10.3	11.2 J Q	8.27 J Q
Copper	mg/kg	21.1 J E	12.6 J E, Q	21.8 J E	12.9 J E	17.2 J E, Q	18.2 J Q	16.6 J Q
Vanadium	mg/kg	68.2	46.5 J A	76.5	49.3	53.1 J A	56.9 J Q	52.9 J Q
Zinc	mg/kg	55.5	52.3	69.8	48.3	79.5	79	78.4
Zirconium	mg/kg	5.09 J Z	1.68 J Z	8.13	5.21 J Z	4.74 J Z	3.82 J Z	2.62 J Z
Calcium	mg/kg	34500	3680 J E	5670	67600	6950 J E	28600 J E	24300 J E
Phosphorus	mg/kg	523	444 J E	241	208	461 J E	454 J Q, E	283 J Q, E
Selenium	mg/kg	0.0623 J Z	0.0809 J Z	0.288 J Z	0.0513 J Z	0.223 J Z	0.102 J Z	0.451 U
Chromium VI	mg/kg	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U
Perchlorate (314.0)	ug/kg	33.5 U	32.8 U	35.9 U	34.0 U	34.0 U	35.4 U	34.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.5	8.4	16.5	11.8	11.7	15.3	12.1
pH	pH unit	8.36	7.39	6.96	7.97	6.72	8.32	8.23

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-006-SA5DN-SS-0.0-0.5	SL-006-SA5DN-SB-4.0-5.0	SL-006-SA5DN-SB-9.0-10.0	SL-007-SA5DN-SS-0.0-0.5	SL-007-SA5DN-SB-4.0-5.0	SL-008-SA5DN-SS-0.0-0.5	SL-008-SA5DN-SB-4.0-5.0
Sample Date		05/25/2011	08/11/2011	08/11/2011	08/22/2011	08/10/2011	05/23/2011	05/31/2011
SDG		DE163	DE222	DE222	DE229	DE221	DE160	DE168
Start Depth		0	4	9	0	4	0	4
End Depth		0.5	5	10	0.5	5	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.9 J Q	15.8 J Q	3.7 J Q	3.2 J Q	4.5 J Q	2.5 J Q	8.4 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	28800	28000	19600	26900	34100	23200	29900
Iron	mg/kg	29000	27400	23800	28000	33900	24100	29200
Lead	mg/kg	17.4 J Q	8.49	8.06	16.2 J Q, E	9.41	7.36 J Q, E, A	9.71 J E, Q
Lithium	mg/kg	25	22.7	18.4	24.4	26.7	20.9	24.2
Magnesium	mg/kg	6230	4990	4300	6620	6240	6200	6330
Manganese	mg/kg	410	275	444	492	319	356	246 J E
Mercury	mg/kg	0.114 UJ E	0.0090 J Z	0.111 U	0.0139 J Z	0.115 U	0.107 U	0.113 U
Molybdenum	mg/kg	0.564	0.243	0.267	1.97	0.241	0.315	0.284
Nickel	mg/kg	21.4 J Q	16.2	17.8	26.7 J Q	21.4	13.6 J Q, E, A	18
Potassium	mg/kg	4250	1990	2070	5030	2680	4810	3070 J Q
Silver	mg/kg	0.0550 J Z	0.0487 J Z	0.0241 J Z	0.0721 J Z	0.0561 J Z	0.0289 J Z	0.0548 J Z
Sodium	mg/kg	105 J Z	195	157	142	215	126	737
Strontium	mg/kg	35.6 J E	58.2	39.8	46.1	38.9	76.9	44.5
Thallium	mg/kg	0.317	0.278	0.271	0.386	0.317	0.271	0.281
Tin	mg/kg	11.5 U B	11.3 U B	10.9 U B	11.4 U B	11.5 U B	10.4 U B	11.2 U B
Titanium	mg/kg	1260	1120	1040	1410	1180	1420 J E	1170
Antimony	mg/kg	0.359 J Q	0.142 J Q, Z	0.220 UJ Q	0.229 R Q, E	0.156 J Q, Z	0.103 J Q, Z	0.177 J Q, Z
Arsenic	mg/kg	29.4 J Q	6.64	5.33	7.48 J E, Q	6.22	4.26 J Q	6.54
Beryllium	mg/kg	0.75	0.874	0.672	0.91	1.06	0.510 J Q	0.807 J Q
Barium	mg/kg	133	119	85.1	160	142	85.0 J E, A	131
Boron	mg/kg	5.64 J Z	6.24	6.41	6.51	8.36	12.1	17.5
Cadmium	mg/kg	0.831	0.107 J Z	0.0976 J Z	0.432	0.193	0.221	0.128
Chromium	mg/kg	25.9 J A	30.6	25.6	36	36.2	21.3 J Q, A	27.2 J A
Cobalt	mg/kg	10.9	9.96	9.59	14.0 J E	9.9	6.96 J E, A	9.12
Copper	mg/kg	17.0 J E, Q	13.1	12.9	21.6 J Q	14.4	10.8 J Q, E, A	12.8
Vanadium	mg/kg	49.0 J A	55.4 J Q	49.2 J Q	72.3	64.6 J Q	40.7 J Q, A	54.8 J A
Zinc	mg/kg	187	51.8	51.1	89.3	56.2	52.1 J E	52.4
Zirconium	mg/kg	3.69 J Z	5.65 U B	3.59 J Z	4.20 J Z	3.90 J Z	3.47 J Z	3.20 J Z
Calcium	mg/kg	5700 J E	54600	7190	12100	5270	37800	33000 J E
Phosphorus	mg/kg	357 J E	140	271	584	179	476	278
Selenium	mg/kg	0.170 J Z	0.452 U	0.440 U	0.333 J E, Z	0.0780 J Z	0.178 J Z	0.0523 J Z
Chromium VI	mg/kg	0.73 J Z	1.1 U	1.1 U	0.23 J Z	0.69 J Z	0.55 J Z	1.2 U
Perchlorate (314.0)	ug/kg	35.9 U	34.2 U	34.0 U	34.3 U	35.1 U	32.5 U	34.8 U
Perchlorate (6850)	ug/kg	--	--	5.7 U	--	--	--	--
Percent Moisture	%	16.5	12.4	11.8	12.5	14.5	7.6	13.7
pH	pH unit	7.35	8.34	8.24	7.18	7.97	8.19	8.93

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-008-SA5DN-SB-9.0-10.0	SL-009-SA5DN-SS-0.0-0.5	SL-009-SA5DN-SB-4.0-5.0	SL-009-SA5DN-SB-9.0-10.0	SL-010-SA5DN-SS-0.0-0.5	SL-010-SA5DN-SB-4.0-5.0	SL-010-SA5DN-SB-9.0-10.0
Sample Date		05/31/2011	05/23/2011	08/09/2011	08/09/2011	05/23/2011	05/31/2011	05/31/2011
SDG		DE168	DE160	DE220	DE220	DE160	DE168	DE168
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.8 J Q	1.2 J Q, Z	5.7 J E, Q	6.4 J E, Q	1.0 UJ Q	6.4 J Q	11.8 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	18700	25500	16600	28300	10700	25100	29600
Iron	mg/kg	21600	27300	18700	29100	22900	29100	37900
Lead	mg/kg	5.23 J E, Q	13.8 J Q, E, A	7.94 J Q	14.6 J Q	3.17 J Q, E, A	5.77 J E, Q	9.45 J E, Q
Lithium	mg/kg	22.4	21.6	17.7	25.2	13.3	29.5	30.3
Magnesium	mg/kg	4220	6470	3270	5680	5550	5360	6540
Manganese	mg/kg	240 J E	398	137 J Q, E	386 J Q, E	291	272 J E	653 J E
Mercury	mg/kg	0.106 U	0.128 U	0.0232 J Z	0.109 U	0.0997 U	0.109 U	0.0056 J Z
Molybdenum	mg/kg	0.39	0.57	0.603	1.02	0.144	0.403	0.333
Nickel	mg/kg	10.8	19.5 J Q, E, A	13.0 J Q, A	28.5 J Q, A	9.04 J Q, E, A	16.9	20.8
Potassium	mg/kg	2510 J Q	4980	2190 J Q	3480 J Q	4740	3460 J Q	3000 J Q
Silver	mg/kg	0.0255 J Z	0.0445 J Z	0.0481 J Z	0.0668 J Z	0.0969 U	0.0281 J Z	0.0223 J Z
Sodium	mg/kg	414	111 J Z	95.4 J Z	136	257	469	515
Strontium	mg/kg	20.9	76.6	17	29.9	31	25.6	36.3
Thallium	mg/kg	0.283	0.343	0.235	0.439	0.246	0.298	0.307
Tin	mg/kg	11.0 U B	12.8 U B	10.7 U B	11.4 U B	10.1 U B	11.0 U B	11.0 U B
Titanium	mg/kg	1350	1500 J E	979	1350	1530 J E	1370	1240
Antimony	mg/kg	0.139 J Q, Z	0.286 J Q	0.213 UJ B, Q	0.853 J Q	0.194 UJ Q	0.143 J Q, Z	0.227 J Q, Z
Arsenic	mg/kg	5.57	7.21 J Q	5.33 J Q	12.1 J Q	1.72 J Q	5.83	7.01
Beryllium	mg/kg	0.616 J Q	0.584 J Q	0.697	1.23	0.143 J Q	0.754 J Q	0.918 J Q
Barium	mg/kg	74.4	134 J E, A	96.4	166	142 J E, A	104	143
Boron	mg/kg	10.3	13.1	5.33 U B, F	5.85	3.92 J Z	13.5	17
Cadmium	mg/kg	0.0765 J Z	0.388	0.112	0.16	0.0697 J Z	0.117	0.121
Chromium	mg/kg	17.5 J A	30.1 J Q, A	15.6 J E, A	35.3 J E, A	21.5 J Q, A	22.0 J A	27.3 J A
Cobalt	mg/kg	6.04	9.94 J E, A	11.9 J FD, E	14.5 J E	7.34 J E, A	6.74	11.1
Copper	mg/kg	8.84	16.3 J Q, E, A	8.73 J E	20.2 J E	14.8 J Q, E, A	10.2	12.1
Vanadium	mg/kg	36.7 J A	57.3 J Q, A	34.5 J E, A	76.9 J E, A	41.8 J Q, A	44.9 J A	52.8 J A
Zinc	mg/kg	50.2	123 J E	38.7 J E, Q	80.8 J E, Q	61.0 J E	58.3	56.5
Zirconium	mg/kg	1.68 J Z	2.84 J Z	3.05 J Z	4.99 J Z	5.04 U	2.25 J Z	3.03 J Z
Calcium	mg/kg	8250 J E	35000	2500	6200	5230	4020 J E	6300 J E
Phosphorus	mg/kg	178	588	178 J Q	398 J Q	714	290	256
Selenium	mg/kg	0.428 U	0.219 J Z	0.426 UJ E	0.107 J Q, E, Z	0.388 U	0.454 U	0.0526 J Z
Chromium VI	mg/kg	1.1 U	0.65 J Z	1.1 U	1.2 U	1.0 U	1.1 U	0.35 J Z
Perchlorate (314.0)	ug/kg	33.4 U	39.4 U	33.3 U	34.8 U	30.5 U	34.4 U	34.4 U
Perchlorate (6850)	ug/kg	--	--	--	5.8 U	--	--	2.4 J Z
Percent Moisture	%	10.1	23.9	9.8	13.8	1.7	12.8	12.7
pH	pH unit	9.13	8.29	7.93	8	8.84	8.68	8.51

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-011-SA5DN-SS-0.0-0.5	SL-011-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SS-0.0-0.5	SL-012-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SB-9.0-10.0	SL-013-SA5DN-SS-0.0-0.5	SL-013-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	08/09/2011	05/23/2011	08/09/2011	08/09/2011	05/23/2011	05/31/2011
SDG		DE160	DE220	DE160	DE220	DE220	DE160	DE168
Start Depth		0	4	0	4	9	0	4
End Depth		0.5	5	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	2	1.5 U	1.3 J Z	1.2 J Z	12.5
Fluoride	mg/kg	1.4 J Q	7.9 J E, Q	7.7 J Q	2.7 J E, Q	7.2 J E, Q	2.5 J Q	11.7 J Q
Cyanide	mg/kg	--	--	0.55 U	0.52 U	0.57 U	0.52 U	0.55 U
Aluminum	mg/kg	26000	21200	31000	15400	25000	14700	38600
Iron	mg/kg	27700	25400	31300	22600	26400	22200	38400
Lead	mg/kg	11.5 J Q, E, A	8.23 J Q	13.1 J Q, E, A	1.54 J Q	9.92 J Q	7.54 J Q, E, A	9.50 J E, Q
Lithium	mg/kg	21.8	19.6	26.5	8.7	22.7	15.1	31.3
Magnesium	mg/kg	6370	4230	6610	7920	4710	5080	8050
Manganese	mg/kg	418	479 J Q, E	346	177 J Q, E	290 J Q, E	286	374 J E
Mercury	mg/kg	0.112 U	0.109 U	0.108 U	0.0123 J Z	0.0211 J Z	0.0034 J Z	0.115 U
Molybdenum	mg/kg	0.412	0.489	0.411	0.227	0.535	0.81	0.369
Nickel	mg/kg	19.8 J Q, E, A	17.6 J Q, A	22.7 J Q, E, A	29.8 J Q, A	23.6 J Q, A	12.2 J Q, E, A	22.8
Potassium	mg/kg	4870	2220 J Q	3040	2750 J Q	2920 J Q	3500	3340 J Q
Silver	mg/kg	0.0310 J Z	0.0419 J Z	0.0568 J Z	0.103 U	0.0868 J Z	0.0320 J Z	0.0532 J Z
Sodium	mg/kg	110	148	265	357	370	250	624
Strontium	mg/kg	71.1	28.2	42.5	91.4	33.6	35.8	52.5
Thallium	mg/kg	0.321	0.276	0.371	0.0642 J Z	0.393	0.21	0.343
Tin	mg/kg	10.9 U B	11.0 U B	10.8 U B	10.3 U B	11.4 U B	10.1 U B	11.3 U B
Titanium	mg/kg	1420 J E	1030	1190 J E	1200	1160	1310 J E	1350
Antimony	mg/kg	0.171 J Q, Z	0.220 UJ B, Q	0.160 J Q, Z	0.206 UJ Q	0.230 UJ B, Q	0.0962 J Q, Z	0.270 J Q
Arsenic	mg/kg	6.38 J Q	7.19 J Q	7.34 J Q	0.944 J Q	6.43 J Q	3.56 J Q	6.22
Beryllium	mg/kg	0.551 J Q	0.908	0.763 J Q	0.149	0.965	0.295 J Q	0.949 J Q
Barium	mg/kg	138 J E, A	117	184 J E, A	177	149	150 J E, A	183
Boron	mg/kg	13.1	5.51 U B, F	7.38	5.14 U B, F	4.59 J Z	5.29	19.9
Cadmium	mg/kg	0.321	0.115	0.232	0.0708 J Z	0.171	0.196	0.186
Chromium	mg/kg	30.4 J Q, A	24.5 J E, A	32.7 J Q, A	23.2 J E, A	30.0 J E, A	17.8 J Q, A	32.9 J A
Cobalt	mg/kg	10.5 J E, A	8.43 J E	9.76 J E, A	14.5 J E	14.3 J E	7.38 J E, A	10
Copper	mg/kg	15.9 J Q, E, A	12.7 J E	19.9 J Q, E, A	19.2 J E	16.2 J E	15.4 J Q, E, A	15.1
Vanadium	mg/kg	59.3 J Q, A	49.1 J E, A	58.7 J Q, A	49.0 J E, A	54.3 J E, A	38.7 J Q, A	60.3 J A
Zinc	mg/kg	77.9 J E	49.8 J E, Q	181 J E	31.7 J E, Q	67.9 J E, Q	62.7 J E	65.1
Zirconium	mg/kg	3.22 J Z	3.07 J Z	2.78 J Z	5.14 U	3.92 J Z	1.71 J Z	3.37 J Z
Calcium	mg/kg	32100	3760	13700	9050	7000	6580	9200 J E
Phosphorus	mg/kg	507	253 J Q	256	1570 J Q	369 J Q	664	161
Selenium	mg/kg	0.207 J Z	0.441 UJ E	0.148 J Z	0.129 J Q, E, Z	0.461 UJ E	1.08	0.0862 J Z
Chromium VI	mg/kg	0.67 J Z	0.28 J Z	0.64 J Z	1.0 U	1.2 U	0.58 J Z	0.37 J Z
Perchlorate (314.0)	ug/kg	33.8 U	33.7 U	33.7 U	31.4 U	34.9 U	31.1 U	34.7 U
Perchlorate (6850)	ug/kg	--	5.6 U	5.6 U	--	--	5.2 U	--
Percent Moisture	%	11.2	11	11	4.6	14	3.6	13.5
pH	pH unit	8.17	8.04	8.63	8.3	8.49	8.61	8.01

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-013-SA5DN-SB-9.0-10.0	SL-014-SA5DN-SS-0.0-0.5	SL-014-SA5DN-SB-4.0-5.0	SL-014-SA5DN-SB-9.0-10.0	SL-015-SA5DN-SS-0.0-0.5	SL-015-SA5DN-SB-4.0-5.0	SL-015-SA5DN-SB-12.0-13.0
Sample Date		05/31/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	06/01/2011	06/01/2011
SDG		DE168	DE160	DE169	DE169	DE159	DE170	DE170
Start Depth		9	0	4	9	0	4	12
End Depth		10	0.5	5	10	0.5	5	13
Chemical Name	Unit							
Nitrate	mg/kg	7.7	1.4 J Z	1.6 J Z	2.7	1.7 U	2.2 J Q	3.6 J Q
Fluoride	mg/kg	4.9 J Q	3.4 J Q	18.2 J FD, Q	5.4 J Q	2.2	10.8 J Q	4.6 J Q
Cyanide	mg/kg	0.57 U	0.55 U	0.56 U	0.54 U	0.54 U	0.57 U	0.55 U
Aluminum	mg/kg	32300	33600	30300	22300	35000	24200	16500
Iron	mg/kg	28900	33600	34300	27400	33800	30900	22900
Lead	mg/kg	9.33 J E, Q	14.5 J Q, E, A	9.75	8.34	17.9	13.5	8.65
Lithium	mg/kg	26.1	27.1	28.5	23	29.7	22.7	29
Magnesium	mg/kg	6120	7110	6890	5850	7710	6000	4600
Manganese	mg/kg	291 J E	421	1370 J FD, E	334 J E	396	338 J E	301 J E
Mercury	mg/kg	0.0038 J Z	0.105 U	0.111 UJ FD	0.0037 J Z	0.0458 J Z	0.0155 J E, Q, Z	0.0091 J E, Q, Z
Molybdenum	mg/kg	0.796	0.452	0.311	0.271	0.702 J E, Q	0.326 J E, Q	0.561 J E, Q
Nickel	mg/kg	20.6	27.5 J Q, E, A	18.2 J E, Q	17.3 J E, Q	31.2 J E, Q	24.4 J Q, E	21.5 J Q, E
Potassium	mg/kg	3470 J Q	4360	2520 J E	3010 J E	4580 J Q	3200	2420
Silver	mg/kg	0.0420 J Z	0.0625 J Z	0.0847 J FD, Z	0.0336 J Z	0.0755 J Q, Z	0.0526 J Q, Z	0.0503 J Q, Z
Sodium	mg/kg	625	218	741	494	123	469	267
Strontium	mg/kg	55.7	47.1	49.7	36.3	45.3	45.6	27.1
Thallium	mg/kg	0.32	0.441	0.301	0.294	0.503 J Q	0.372 J Q	0.398 J Q
Tin	mg/kg	11.3 U B	10.6 U B	11.1 U B	11.5 U B	11.3 U B, Z	11.3 U B	10.5 U B
Titanium	mg/kg	1420	1510 J E	963	1210	1700	550	1200
Antimony	mg/kg	0.258 J Q	0.172 J Q, Z	0.135 J FD, Q, Z	0.174 J Q, Z	0.435 J Q	0.103 J Q, E, Z	0.103 J Q, E, Z
Arsenic	mg/kg	7.52	7.98 J Q	5.63 J Q	6.92 J Q	9.24 J E, Q	6.64 J Q	9.06 J Q
Beryllium	mg/kg	0.763 J Q	0.773 J Q	0.867	0.678	1.14 J E	1.06 J Q	0.878 J Q
Barium	mg/kg	136	150 J E, A	148	87.4	163 J E	175 J E	101 J E
Boron	mg/kg	13.3	11.3	5.54 UJ FD	5.77 U	2.11 J Z	10.9	8.04
Cadmium	mg/kg	0.171	0.362	0.148	0.16	0.421 J E, Q	0.281 J Q, E	0.162 J Q, E
Chromium	mg/kg	29.1 J A	39.5 J Q, A	26.9 J Q, A	22.2 J Q, A	29.7 J *#	32.8 J Q, E	30.8 J Q, E
Cobalt	mg/kg	9.56	13.6 J E, A	12.6	8.38	11.2 J E, *#	12.5 J Q, E	7.83 J Q, E
Copper	mg/kg	12.3	21.5 J Q, E, A	13.5	13.1	23.0 J E, Q	17.1 J Q	18.2 J Q
Vanadium	mg/kg	58.1 J A	74.3 J Q, A	42.9 J Q, A	45.8 J Q, A	100 J E	59.3 J A	58.0 J A
Zinc	mg/kg	65.1	99.5 J E	59.7	64.5	106 J *#	81.8	82.5
Zirconium	mg/kg	2.52 J Z	4.20 J Z	2.09 J Z	3.28 J Z	7.37	2.89 J Z	1.65 J Z
Calcium	mg/kg	21000 J E	12400	6810 J FD, E	6670 J E	11500 J E	17900	4940
Phosphorus	mg/kg	270	389	169	269	332 J Q	317 J Q	355 J Q
Selenium	mg/kg	0.0588 J Z	0.144 J Z	0.0640 J FD, Z	0.0602 J Z	0.148 J Z	0.0901 J Z	0.0728 J Z
Chromium VI	mg/kg	1.8	1.7	1.2 J FD	1.2 U	0.93 J Z	0.33 J Z	1.1 U
Perchlorate (314.0)	ug/kg	34.2 U	33.2 U	34.2 U	35.0 U	34.1 U	34.9 U	32.9 U
Perchlorate (6850)	ug/kg	--	5.5 U	--	--	5.7 U	--	--
Percent Moisture	%	12.4	9.7	12.3	14.2	12.1	14.1	8.8
pH	pH unit	8.22	8.21	8.95	8.92	8.1	8.89	8.42

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA5DN-SS-0.0-0.5	SL-016-SA5DN-SB-4.0-5.0	SL-016-SA5DN-SB-12.0-13.0	SL-017-SA5DN-SS-0.0-0.5	SL-017-SA5DN-SB-4.0-5.0	SL-017-SA5DN-SB-7.0-8.0	SL-018-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011
SDG		DE159	DE172	DE172	DE159	DE170	DE170	DE160
Start Depth		0	4	12	0	4	7	0
End Depth		0.5	5	13	0.5	5	8	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.3 J Z	2.4	1.9	--	--	--	2.4
Fluoride	mg/kg	3.9	10.2 J Q	5.5 J Q	2	12.0 J Q	4.5 J Q	4.1 J Q
Cyanide	mg/kg	0.54 U	0.59 U	0.55 U	--	--	--	0.53 U
Aluminum	mg/kg	30400	33500	21200	29000	24500	27100	29800
Iron	mg/kg	30900	32500	35700	32400	26900	41100	31900
Lead	mg/kg	12.7	10.7	5.88	17.4	13.3	15.3	21.8 J Q, E, A
Lithium	mg/kg	26.4	27.5	29	25.5	24.4	46.5	23.2
Magnesium	mg/kg	7030	6950	6810	6910	5620	10300	6170
Manganese	mg/kg	382	393	905	393	510 J E	509 J E	404
Mercury	mg/kg	0.111 U	0.113 U	0.0078 J Z	0.109 U	0.0075 J E, Q, Z	0.113 UJ E, Q	0.257
Molybdenum	mg/kg	0.509 J E, Q	0.486	0.181	0.929 J E, Q	0.223 J E, Q	0.480 J E, Q	0.61
Nickel	mg/kg	21.8 J E, Q	21.6	14	25.5 J E, Q	25.3 J Q, E	44.0 J Q, E	26.5 J Q, E, A
Potassium	mg/kg	4340 J Q	3770	3290	4510 J Q	2760	3050	4510
Silver	mg/kg	0.0617 J Q, Z	0.0556 J Z	0.0715 J Z	0.0786 J Q, Z	0.0656 J Q, Z	0.0164 J Q, Z	0.0631 J Z
Sodium	mg/kg	129	428	369	129	579	752	125
Strontium	mg/kg	45.1	44.5	58.4	45.2	39.1	53.2	39
Thallium	mg/kg	0.358 J Q	0.327	0.284	0.449 J Q	0.468 J Q	0.433 J Q	0.405
Tin	mg/kg	11.1 U B, Z	11.4 U B	11.2 U B	11.1 U B, Z	11.3 U B	11.0 U B	10.8 U B
Titanium	mg/kg	1530	1540	1390	1500	1040	1620	1520 J E
Antimony	mg/kg	0.300 J Q	0.225 J Z	0.149 J Z	0.365 J Q	0.130 J Q, E, Z	0.113 J Q, E, Z	0.231 J Q
Arsenic	mg/kg	6.68 J E, Q	7.1	4.76	7.77 J E, Q	9.94 J Q	12.9 J Q	7.96 J Q
Beryllium	mg/kg	0.833 J E	0.852	0.607	0.880 J E	1.13 J Q	1.36 J Q	0.733 J Q
Barium	mg/kg	159 J E	143	104	140 J E	167 J E	176 J E	184 J E, A
Boron	mg/kg	5.57 U	18	15.3	5.54 U	9.27	12	11
Cadmium	mg/kg	0.318 J E, Q	0.233	0.3	0.391 J E, Q	0.161 J Q, E	0.643 J Q, E	0.512
Chromium	mg/kg	28.9 J *#	30.2	23.9	25.4 J *#	33.8 J Q, E	62.4 J Q, E	37.3 J Q, A
Cobalt	mg/kg	10.3 J E, *#	10.5	3.81	9.01 J E, *#	9.19 J Q, E	17.6 J Q, E	14.7 J E, A
Copper	mg/kg	17.6 J E, Q	15.2	13.3	24.4 J E, Q	16.2 J Q	42.8 J Q	20.9 J Q, E, A
Vanadium	mg/kg	74.2 J E	60.7	41.3	90.3 J E	64.0 J A	77.0 J A	68.6 J Q, A
Zinc	mg/kg	88.4 J *#	67.9	57	133 J *#	78.1	134	116 J E
Zirconium	mg/kg	6.61	3.45 J Z	0.997 J Z	5.8	2.19 J Z	2.90 J Z	3.65 J Z
Calcium	mg/kg	12200 J E	14500	22400	12200 J E	9990	10300	7840
Phosphorus	mg/kg	389 J Q	275	557	454 J Q	174 J Q	697 J Q	372
Selenium	mg/kg	0.114 J Z	0.0961 J Z	0.0551 J Z	0.116 J Z	0.0652 J Z	0.235 J Z	0.225 J Z
Chromium VI	mg/kg	0.70 J Z	0.45 J Z	1.1 U	0.38 J Z	1.2 U	0.31 J Z	0.56 J Z
Perchlorate (314.0)	ug/kg	33.7 U	35.4 U	33.9 U	33.6 U	34.6 U	34.1 U	33.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.5 U
Percent Moisture	%	11.1	15.2	11.6	10.7	13.4	12.1	9
pH	pH unit	8.24	8.48	8.89	8.1	9.02	9.08	7.97

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-018-SA5DN-SB-4.0-5.0	SL-018-SA5DN-SB-7.5-8.5	SL-019-SA5DN-SS-0.0-0.5	SL-019-SA5DN-SB-4.0-5.0	SL-019-SA5DN-SB-9.0-10.0	SL-020-SA5DN-SS-0.0-0.5	SL-020-SA5DN-SB-3.5-4.5
Sample Date		06/01/2011	06/01/2011	05/23/2011	06/03/2011	06/03/2011	05/20/2011	06/15/2011
SDG		DE170	DE172	DE159	DE173	DE173	DE158	DE181
Start Depth		4	7.5	0	4	9	0	3.5
End Depth		5	8.5	0.5	5	10	0.5	4.5
Chemical Name	Unit							
Nitrate	mg/kg	1.9 J Q	1.2 J Z	2	1.6 J Z	1.5 J Z	3.6	1.7
Fluoride	mg/kg	7.6 J Q	2.9	6.2	5.1 J Q	5.5 J Q	1.6 J Q	4.8 J Q
Cyanide	mg/kg	0.53 U	0.53 U	0.57 U	0.57 U	0.56 U	0.52 U	0.55 U
Aluminum	mg/kg	22200	19900 J L	36100	33700	21300	14000	18300
Iron	mg/kg	29700	31000	34200	32900	27700	22400	22200
Lead	mg/kg	11.7	10.4	14.7	8.39 J E, Q	7.34 J E, Q	12.5 J A	11.1 J Q
Lithium	mg/kg	20.4	25.8	30.7	31.8	24.5	13.9	19.4
Magnesium	mg/kg	5050	5940	7900	7110	5410	5580	4260
Manganese	mg/kg	304 J E	220	433	210	273	342	276 J Q, E
Mercury	mg/kg	0.0320 J E, Q, Z	0.102 U	0.110 U	0.115 U B	0.108 U B	0.0127 J Z	0.111 U
Molybdenum	mg/kg	0.444 J E, Q	0.514	0.636 J E, Q	0.590 J E, Q	0.455 J E, Q	0.591 J Q	0.358 J Q
Nickel	mg/kg	40.4 J Q, E	22.4	29.4 J E, Q	19.8 J Q, A	16.2 J Q, A	19.2 J Q, A	21.2 J Q, E
Potassium	mg/kg	2640	2040	4540 J Q	3640	3120	3610 J Q	2350 J Q
Silver	mg/kg	0.0974 J Q, Z	0.108 U	0.0757 J Q, Z	0.0629 J Q, Z	0.0445 J Q, Z	0.0532 J Q, Z	0.0575 J Q, Z
Sodium	mg/kg	571	481	188	688	374	137	262
Strontium	mg/kg	33.9	30	49.1	54.3	34.6	33.2	21.4
Thallium	mg/kg	0.395 J Q	0.386	0.497 J Q	0.276 J Q	0.259 J Q	0.364 J Q	0.330 J Q
Tin	mg/kg	11.0 U B	10.7 U B	11.3 U B, Z	11.4 U B	10.9 U B	10.6 U B	11.1 U B
Titanium	mg/kg	1050	1200	1680	1450	1370	1300	923
Antimony	mg/kg	0.107 J Q, E, Z	0.24	0.383 J Q	0.230 UJ B, Q	0.218 UJ B, Q	0.276 J Q	0.223 UJ B, Q
Arsenic	mg/kg	7.87 J Q	11.2	8.55 J E, Q	6.77 J E, Q	6.64 J E, Q	6.13 J Q	7.41 J Q
Beryllium	mg/kg	1.03 J Q	0.921	1.15 J E	0.910 J E, Q	0.661 J E, Q	0.644 J Q	0.827 J Q
Barium	mg/kg	173 J E	103	183 J E	143 J E, A	94.4 J E, A	151	101 J E, A
Boron	mg/kg	10.5	8.25	1.80 J Z	5.69 U	5.46 U	11.5	6.47
Cadmium	mg/kg	0.243 J Q, E	0.0881 J Z	0.417 J E, Q	0.165 J Q	0.231 J Q	0.245 J Q	0.114 J Q
Chromium	mg/kg	35.5 J Q, E	29.1	32.6 J *#	31.9 J Q	23.1 J Q	27.2 J Q, A	25.7 J Q
Cobalt	mg/kg	16.2 J Q, E	8.3	10.2 J E, *#	6.54 J E, Q	11.0 J E, Q	11.9 J Q, A	15.1 J E, Q
Copper	mg/kg	18.0 J Q	17.6	22.0 J E, Q	31.5 J Q	13.0 J Q	19.4 J A	13.8 J E, Q
Vanadium	mg/kg	62.1 J A	54.3	98.3 J E	51.1	43.3	71.1 J A	45.7
Zinc	mg/kg	68.8	87.7	96.9 J *#	67.7	58.3	103 J A	63.1
Zirconium	mg/kg	1.77 J Z	1.28 J Z	7.71	8.63	7.17	1.02 J Z	3.03 J Z
Calcium	mg/kg	5590	5960	11000 J E	34600	9870	5770	9140 J E
Phosphorus	mg/kg	210 J Q	513	297 J Q	271	298	703	272 J Q
Selenium	mg/kg	0.0608 J Z	0.245 J Z	0.144 J Z	0.459 U	0.437 U	0.110 J Q, Z	0.445 U
Chromium VI	mg/kg	0.29 J Z	0.41 J Z	0.84 J Z	1.2 U	1.1 U	0.56 J Z	0.52 J Z
Perchlorate (314.0)	ug/kg	33.3 U	33.2 U	34.8 U	34.8 U	33.4 U	31.8 U	33.7 U
Perchlorate (6850)	ug/kg	5.5 U	--	--	5.8 U	--	--	--
Percent Moisture	%	9.8	9.6	13.8	13.8	10.2	5.6	11.1
pH	pH unit	8.83	8.97	8.14	9.2	8.58	8.07	8.56

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA5DN-SS-0.0-0.5	SL-021-SA5DN-SB-4.0-5.0	SL-021-SA5DN-SB-19.5-20.5	SL-022-SA5DN-SS-0.0-0.5	SL-022-SA5DN-SB-4.0-5.0	SL-022-SA5DN-SB-15.0-16.0	SL-023-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/06/2011	06/06/2011	05/23/2011
SDG		DE159	DE172	DE172	DE159	DE174	DE174	DE159
Start Depth		0	4	19.5	0	4	15	0
End Depth		0.5	5	20.5	0.5	5	16	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.5 J Z	1.5 J Z	3.2	1.6 J Z	3.9	1.7	1.1 J Z
Fluoride	mg/kg	5.6 J Q	5.3 J Q	4.9 J Q	4.7 J Q	20.2 J E, Q	4.2 J E, Q	3.4 J Q
Cyanide	mg/kg	0.56 U	0.56 U	0.54 U	0.55 U	0.57 U	0.53 U	0.57 U
Aluminum	mg/kg	38800	33700	23500	30200	38700	19600	32300
Iron	mg/kg	34400	33000	27200	32000	37200	22500	32100
Lead	mg/kg	14.7	9.92	6.5	20	10.7 J E, Q	4.98 J E, Q	12.8
Lithium	mg/kg	32.3	28.4	27.9	26.1	30.1	35	28.7
Magnesium	mg/kg	8080	7370	5700	6650	8060	5030	7310
Manganese	mg/kg	370	383	390	451	327 J E	245 J E	448
Mercury	mg/kg	0.111 U	0.112 U	0.108 U	0.0463 J Z	0.0106 J Z	0.108 U	0.112 U
Molybdenum	mg/kg	0.632 J E, Q	0.482	0.488	1.50 J E, Q	0.498	0.404	0.562 J E, Q
Nickel	mg/kg	28.4 J E, Q	22.4	15.9	28.9 J E, Q	23.3	15.3	26.3 J E, Q
Potassium	mg/kg	4470 J Q	4110	2960	4400 J Q	3580 J Q	2800 J Q	4250 J Q
Silver	mg/kg	0.0740 J Q, Z	0.0478 J Z	0.0254 J Z	0.0712 J Q, Z	0.0501 J Z	0.0549 J Z	0.0701 J Q, Z
Sodium	mg/kg	163	517	260	143	542	197	135
Strontium	mg/kg	46.6	49.3	38.6	41.8	56.2	30	51.8
Thallium	mg/kg	0.463 J Q	0.315	0.252	0.491 J Q	0.353	0.262	0.463 J Q
Tin	mg/kg	11.5 U B, Z	11.2 U B	10.8 U B	11.3 U B, Z	11.4 U B	10.8 U B	11.0 U B, Z
Titanium	mg/kg	1700	1540	1470	1660	1420	1450	1570
Antimony	mg/kg	0.351 J Q	0.29	0.171 J Z	0.510 J Q	0.272 J Q	0.0885 J Q, Z	0.353 J Q
Arsenic	mg/kg	8.36 J E, Q	6.58	6.14	8.16 J E, Q	7.06	4.85	7.86 J E, Q
Beryllium	mg/kg	1.02 J E	0.802	0.598	1.01 J E	1.02 J Q	0.105 UJ Q	1.01 J E
Barium	mg/kg	204 J E	154	92.8	199 J E	177	83.8	183 J E
Boron	mg/kg	1.71 J Z	18.5	12.5	2.82 J Z	19.5	8.97	2.70 J Z
Cadmium	mg/kg	0.458 J E, Q	0.296	0.124	0.727 J E, Q	0.162	0.105	0.329 J E, Q
Chromium	mg/kg	29.2 J *#	30.7	21.8	30.1 J *#	34.1 J A	23.0 J A	33.1 J *#
Cobalt	mg/kg	9.04 J E, *#	10.3	7.04	13.0 J E, *#	13.9	5.87	10.1 J E, *#
Copper	mg/kg	21.0 J E, Q	16.1	10.1	22.8 J E, Q	16.8	9.94	20.1 J E, Q
Vanadium	mg/kg	96.6 J E	59.1	44	91.4 J E	65.2 J A	35.8 J A	87.2 J E
Zinc	mg/kg	89.9 J *#	87	56.7	162 J *#	70.7	59	86.5 J *#
Zirconium	mg/kg	7.9	3.49 J Z	2.35 J Z	6.98	2.53 J Z	1.31 J Z	7.12
Calcium	mg/kg	9700 J E	14500	5240	18500 J FD, E	12300 J E	5530 J E	49000 J E
Phosphorus	mg/kg	239 J Q	321	325	357 J Q	206	322	316 J Q
Selenium	mg/kg	0.104 J Z	0.112 J Z	0.0455 J Z	0.232 J Z	0.0978 J Z	0.420 U	0.0791 J Z
Chromium VI	mg/kg	0.81 J Z	0.52 J Z	1.1 U	0.74 J Z	0.35 J Z	0.58 J Z	1.1
Perchlorate (314.0)	ug/kg	34.9 U	34.2 U	33.4 U	34.4 U	34.2 U	32.5 U	34.2 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.7 U	--	--
Percent Moisture	%	14.1	12.2	10.2	12.9	12.4	7.6	12.4
pH	pH unit	8.09	8.72	7.77	8.04	8.76	8.68	7.99

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-023-SA5DN-SB-4.0-5.0	SL-023-SA5DN-SB-20.0-21.0	SL-024-SA5DN-SS-0.0-0.5	SL-024-SA5DN-SB-4.0-5.0	SL-024-SA5DN-SB-19.0-20.0	SL-025-SA5DN-SS-0.0-0.5	SL-025-SA5DN-SB-4.0-5.0
Sample Date		06/08/2011	06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/08/2011
SDG		DE176	DE176	DE158	DE175	DE175	DE158	DE176
Start Depth		4	20	0	4	19	0	4
End Depth		5	21	0.5	5	20	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	1.6 J Z	2.6	1.7	1.5 J Z	2.2	1.1 J Z	1.8
Fluoride	mg/kg	7.1 J Q	3.0 J Q	1.7 J Q	15.6 J Q	4.4 J Q	2.0 J Q	18.9 J Q
Cyanide	mg/kg	0.54 U	0.53 U	0.57 U	0.57 U	0.55 U	0.57 U	0.56 U
Aluminum	mg/kg	29600	19300	24400	25300	13900	26400	33600
Iron	mg/kg	33400	26700	30200	34600	19500	32200	34700
Lead	mg/kg	12.6 J E, Q	11.1 J E, Q	15.2 J A	13.5 J Q	14.1 J Q	15.9 J A	14.8 J E, Q
Lithium	mg/kg	26.5	29.7	21.8	24.8	19.8	23.5	28.6
Magnesium	mg/kg	6920	5700	6460	7490	4360	7080	7340
Manganese	mg/kg	362 J E	259 J E	399	365 J E	135 J E	351	660 J E
Mercury	mg/kg	0.0194 J Z	0.108 U	0.0275 J Z	0.0048 J FD, Z	0.109 U	0.0055 J Z	0.108 U
Molybdenum	mg/kg	0.592 J Q	0.763 J Q	1.09 J Q	0.361 J Q	0.948 J Q	0.600 J Q	0.559 J Q
Nickel	mg/kg	26.7 J Q	31.2 J Q	30.9 J Q, A	35.0 J Q, E	35.8 J Q, E	33.1 J Q, A	45.0 J Q
Potassium	mg/kg	3550	3210	3840 J Q	3130 J Q	2520 J Q	3830 J Q	2620
Silver	mg/kg	0.0545 J Q, Z	0.104 J Q, Z	0.0704 J Q, Z	0.0547 J Q, Z	0.0212 J Q, Z	0.0749 J Q, Z	0.0468 J Q, Z
Sodium	mg/kg	463	250	81.4 J Z	438	182	123	410
Strontium	mg/kg	43.4	32.1	37.5	45.3	33.3	44.4	47.2
Thallium	mg/kg	0.400 J Q	0.480 J Q	0.469 J Q	0.424 J Q	0.449 J Q	0.528 J Q	0.468 J Q
Tin	mg/kg	11.3 U B	10.7 U B	11.5 U B	11.2 U B	10.9 U B	11.6 U B	11.2 U B
Titanium	mg/kg	1050	1290	1350	1410	1200	1340	1220
Antimony	mg/kg	0.361 J Q	0.323 J Q	0.393 J Q	0.255 J Q	0.252 J Q	0.362 J Q	0.465 J Q
Arsenic	mg/kg	9.03 J E	9.43 J E	7.93 J Q	7.61 J Q, E	10.5 J Q, E	9.10 J Q	10.5 J E
Beryllium	mg/kg	1.06 J Q	1.06 J Q	0.993 J Q	0.987 J Q	0.847 J Q	1.19 J Q	1.57 J Q
Barium	mg/kg	168	152	195	201	143	155	173
Boron	mg/kg	8.87	5.33	16.8	12.7	7.38	17.3	9.54
Cadmium	mg/kg	0.320 J Q	0.135 J Q	0.473 J Q	0.429 J Q	0.368 J Q	0.422 J Q	0.324 J Q
Chromium	mg/kg	35.4 J Q, A	34.5 J Q, A	42.7 J Q, A	34.4 J Q, A	28.6 J Q, A	46.7 J Q, A	42.5 J Q, A
Cobalt	mg/kg	12.6 J Q	17.3 J Q	13.8 J Q, A	16.7 J E, Q	29.0 J E, Q	15.2 J Q, A	23.6 J Q
Copper	mg/kg	20.5 J Q, A	21.8 J Q, A	18.9 J A	19.5 J Q	16.3 J Q	19.1 J A	24.3 J Q, A
Vanadium	mg/kg	64.2 J Q, A	59.0 J Q, A	78.1 J A	56.6 J E, A	62.9 J E, A	88.8 J A	75.0 J Q, A
Zinc	mg/kg	94.6	92.3	105 J A	86.6	87.3	108 J A	86.9
Zirconium	mg/kg	4.26 J Z	3.18 J Z	3.30 J Z	3.58 J Z	2.69 J Z	3.23 J Z	3.61 J Z
Calcium	mg/kg	13900	4830	11900	13800 J E	16200 J E	11100	27100
Phosphorus	mg/kg	308	409	353	357	331	302	208
Selenium	mg/kg	0.119 J Q, Z	0.427 U	0.156 J Q, Z	0.119 J Z	0.0758 J Z	0.173 J Q, Z	0.0811 J Q, Z
Chromium VI	mg/kg	0.48 J Z	1.1 U	0.59 J Z	0.44 J FD, Z	0.30 J Z	0.66 J Z	0.48 J Z
Perchlorate (314.0)	ug/kg	34.0 U	33.0 U	34.8 U	34.2 U	33.4 U	35.0 U	33.9 U
Perchlorate (6850)	ug/kg	--	5.5 U	--	--	5.6 U	5.8 U	--
Percent Moisture	%	11.8	9	13.8	12.2	10.1	14.4	11.5
pH	pH unit	7.92	8.29	7.98	8.81	8.62	7.69	8.06

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-025-SA5DN-SB-23.0-24.0	SL-026-SA5DN-SS-0.0-0.5	SL-026-SA5DN-SB-4.0-5.0	SL-026-SA5DN-SB-17.0-18.0	SL-027-SA5DN-SS-0.0-0.5	SL-027-SA5DN-SB-4.0-5.0	SL-027-SA5DN-SB-14.0-15.0
Sample Date		06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/03/2011	06/03/2011
SDG		DE176	DE158	DE175	DE175	DE158	DE173	DE173
Start Depth		23	0	4	17	0	4	14
End Depth		24	0.5	5	18	0.5	5	15
Chemical Name	Unit							
Nitrate	mg/kg	2.3	1.7 U	1.5 J Z	3.6	1.1 J Z	1.7	2.8
Fluoride	mg/kg	2.6 J Q	1.3 J Q	4.5 J Q	2.6 J Q	1.9 J Q	5.3 J Q	2.9 J Q
Cyanide	mg/kg	0.53 U	0.55 U	0.60 U	0.52 U	0.58 U	0.55 U	0.53 U
Aluminum	mg/kg	12300	23900	25100	14000	23300	28200	20600
Iron	mg/kg	19500	31700	32500	21700	29200	29400	27000
Lead	mg/kg	5.61 J E, Q	16.1 J A	11.5 J Q	8.35 J Q	16.5 J A	8.59 J E, Q	5.92 J E, Q
Lithium	mg/kg	19.7	20.8	22	24.2	21.6	27	23.3
Magnesium	mg/kg	3980	6570	6280	3910	6320	6780	5300
Manganese	mg/kg	128 J E	433	491 J E	615 J E	378	351	303
Mercury	mg/kg	0.104 U	0.114 U	0.0278 J Z	0.103 U	0.0263 J Z	0.109 U B	0.110 U B
Molybdenum	mg/kg	0.245 J Q	0.688 J Q	0.524 J Q	0.411 J Q	0.710 J Q	0.367 J E, Q	0.313 J E, Q
Nickel	mg/kg	13.6 J Q	36.4 J Q, A	24.5 J Q, E	23.1 J Q, E	33.7 J Q, A	17.2 J Q, A	16.1 J Q, A
Potassium	mg/kg	2380	4060 J Q	3920 J Q	2080 J Q	3800 J Q	3260	2680
Silver	mg/kg	0.0450 J Q, Z	0.0617 J Q, Z	0.0595 J Q, Z	0.0167 J Q, Z	0.0757 J Q, Z	0.0659 J Q, Z	0.0434 J Q, Z
Sodium	mg/kg	119	118	406	177	120	449	231
Strontium	mg/kg	21.7	42.1	37.2	20.2	46.6	44	22.5
Thallium	mg/kg	0.288 J Q	0.517 J Q	0.430 J Q	0.323 J Q	0.485 J Q	0.273 J Q	0.249 J Q
Tin	mg/kg	10.7 U B	11.4 U B	11.9 U B	10.7 U B	11.3 U B	11.5 U B	10.8 U B
Titanium	mg/kg	1020	1260	932	1080	1220	1460	1450
Antimony	mg/kg	0.140 J Q, Z	0.347 J Q	0.229 J Q, Z	0.110 J Q, Z	0.392 J Q	0.223 UJ B, Q	0.213 UJ B, Q
Arsenic	mg/kg	5.77 J E	7.98 J Q	6.42 J Q, E	8.49 J Q, E	9.15 J Q	6.66 J E, Q	5.75 J E, Q
Beryllium	mg/kg	0.590 J Q	1.11 J Q	0.987 J Q	0.700 J Q	1.13 J Q	0.773 J E, Q	0.619 J E, Q
Barium	mg/kg	65	168	160	109	146	121 J E, A	91.0 J E, A
Boron	mg/kg	3.75 J Z	15.6	13.8	7.23	15.3	5.74 U	5.38 U
Cadmium	mg/kg	0.0864 J Q, Z	0.755 J Q	0.333 J Q	0.288 J Q	0.476 J Q	0.231 J Q	0.137 J Q
Chromium	mg/kg	20.8 J Q, A	44.9 J Q, A	30.6 J Q, A	19.2 J Q, A	43.7 J Q, A	28.4 J Q	24.8 J Q
Cobalt	mg/kg	4.17 J Q	18.0 J Q, A	10.7 J E, Q	10.3 J E, Q	14.0 J Q, A	9.90 J E, Q	6.79 J E, Q
Copper	mg/kg	13.3 J Q, A	19.3 J A	16.3 J Q	11.1 J Q	19.4 J A	15.4 J Q	12.1 J Q
Vanadium	mg/kg	38.1 J Q, A	85.0 J A	48.2 J E, A	41.6 J E, A	85.1 J A	51.2	38.2
Zinc	mg/kg	61	110 J A	82	62.8	120 J A	70.7	56.2
Zirconium	mg/kg	2.32 J Z	2.81 J Z	2.93 J Z	2.26 J Z	2.99 J Z	7.59	6.26
Calcium	mg/kg	4470	7390	6520 J E	3540 J E	15400	16800	4760
Phosphorus	mg/kg	331	313	263	321	357	309	313
Selenium	mg/kg	0.435 U	0.238 J Q, Z	0.199 J Z	0.0577 J Z	0.145 J Q, Z	0.0939 J Q, Z	0.426 U
Chromium VI	mg/kg	1.1 U	0.76 J Z	0.41 J Z	1.1 U	1.2 U	0.53 J Z	1.1 U
Perchlorate (314.0)	ug/kg	33.3 U	34.5 U	35.9 U	32.7 U	35.0 U	34.4 U	33.2 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	9.9	13.1	16.5	8.3	14.2	12.9	9.7
pH	pH unit	8.31	7.75	8.33	8.18	8.09	8.91	8.51

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA5DN-SS-0.0-0.5	SL-028-SA5DN-SB-4.0-5.0	SL-028-SA5DN-SB-11.5-12.5	SL-029-SA5DN-SS-0.0-0.5	SL-029-SA5DN-SB-4.0-5.0	SL-030-SA5DN-SS-0.0-0.5	SL-030-SA5DN-SB-4.0-5.0
Sample Date		05/20/2011	06/08/2011	06/08/2011	05/20/2011	06/15/2011	05/19/2011	06/15/2011
SDG		DE158	DE176	DE176	DE158	DE181	DE157	DE181
Start Depth		0	4	11.5	0	4	0	4
End Depth		0.5	5	12.5	0.5	5	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	0.94 J Z	1.5 J Z	3	1.1 J Z	1.9	1.5 J Z	1.3 J Z
Fluoride	mg/kg	1.7 J Q	4.1 J Q	1.9 J Q	2.0 J Q	5.2 J Q	1.8 J Q	6.1 J Q
Cyanide	mg/kg	0.57 U	0.56 U	0.55 U	0.58 U	0.55 U	0.55 U	0.57 U
Aluminum	mg/kg	25200	26300	21900	25300	21400	30400	30100
Iron	mg/kg	115 U B	32500	26200	31700	23700	40600	29300
Lead	mg/kg	19.9 J A	13.4 J E, Q	8.14 J E, Q	17.4 J A	5.44 J Q	10.8 J A	8.11 J Q
Lithium	mg/kg	23.4	22.5	20.8	23.3	19.8	27.1	25.7
Magnesium	mg/kg	11.5 U B	6200	4980	6560	4430	6800	5950
Manganese	mg/kg	462	434 J E	330 J E	415	232 J Q, E	383	179 J Q, E
Mercury	mg/kg	0.110 U	0.0085 J Z	0.107 U	0.114 U	0.108 U	0.113 U	0.0215 J FD, Z
Molybdenum	mg/kg	0.810 J Q	2.30 J Q	1.11 J Q	0.664 J Q	0.164 J Q	0.396 J E, Q	0.269 J Q
Nickel	mg/kg	32.4 J Q, A	38.9 J Q	21.6 J Q	32.1 J Q, A	13.6 J Q, E	21.5 J E, Q, A	20.6 J Q, E
Potassium	mg/kg	3780 J Q	4140	2630	3690 J Q	1960 J Q	3630 J Q	2440 J Q
Silver	mg/kg	0.0668 J Q, Z	0.108 J Q, Z	0.0501 J Q, Z	0.0640 J Q, Z	0.0293 J Q, Z	0.0459 J Q, Z	0.0864 J FD, Q, Z
Sodium	mg/kg	124	507	444	108 J Z	351	131	338
Strontium	mg/kg	43.9	40.9	40.1	43.3	26.2	46.8	36.3 J FD
Thallium	mg/kg	0.517 J Q	0.483 J Q	0.317 J Q	0.481 J Q	0.271 J Q	0.452 J Q	0.375 J Q
Tin	mg/kg	11.5 U B	11.5 U B	10.9 U B	11.3 U B	10.9 U B	11.3 U B	11.1 U B
Titanium	mg/kg	1.12 U B	589	1120	1250	936	1290	1170
Antimony	mg/kg	0.417 J Q	0.731 J Q	0.405 J Q	0.403 J Q	0.227 UJ Q	0.217 J Q, Z	0.228 UJ B, FD, Q
Arsenic	mg/kg	10.4 J Q	8.54 J E	7.50 J E	9.33 J Q	4.42 J Q	6.88 J E, A	6.20 J Q
Beryllium	mg/kg	1.20 J Q	1.06 J Q	0.714 J Q	1.10 J Q	0.627 J Q	0.847	0.982 J Q
Barium	mg/kg	152	197	169	141	79.2 J E, A	135 J E, A	118 J E, A
Boron	mg/kg	16.8	7.7	6.6	17.2	6.81	12.1	8.77
Cadmium	mg/kg	0.435 J Q	0.414 J Q	0.207 J Q	0.423 J Q	0.176 J Q	0.260 J Q	0.138 J Q
Chromium	mg/kg	46.4 J Q, A	48.2 J Q, A	32.2 J Q, A	44.3 J Q, A	22.6 J Q	32.0 J E	30.0 J Q
Cobalt	mg/kg	14.7 J Q, A	14.9 J Q	8.61 J Q	17.2 J Q, A	4.48 J E, Q	11.2 J E, Q, A	5.52 J FD, E, Q
Copper	mg/kg	19.1 J A	53.1 J Q, A	20.7 J Q, A	19.0 J A	12.1 J E, Q	17.0 J E, Q, A	17.0 J E, Q
Vanadium	mg/kg	91.1 J A	65.6 J Q, A	79.6 J Q, A	84.9 J A	37.3	64.5 J E	51
Zinc	mg/kg	137 J A	97.1	60.3	113 J A	43.1	79.5 J E, A	57.8
Zirconium	mg/kg	3.46 J Z	2.07 J Z	3.69 J Z	3.59 J Z	3.41 J Z	3.83 J Z	3.79 J Z
Calcium	mg/kg	22.9 U B	8340	16100	13900	15300 J E	17400 J E	22100 J FD, E
Phosphorus	mg/kg	353	276	409	350	185 J Q	377 J Q	174 J Q
Selenium	mg/kg	0.146 J Q, Z	0.247 J Q, Z	0.130 J Q, Z	0.147 J Q, Z	0.453 U	0.0856 J Q, Z	0.455 U
Chromium VI	mg/kg	0.73 J Z	0.62 J Z	1.3	0.77 J Z	0.27 J Z	1.2 U	1.1 U
Perchlorate (314.0)	ug/kg	34.8 U	35.1 U	33.6 U	34.8 U	34.0 U	34.7 U	34.5 U
Perchlorate (6850)	ug/kg	--	5.8 U	--	--	--	--	--
Percent Moisture	%	13.7	14.5	10.7	13.9	11.7	13.6	13
pH	pH unit	8.14	8.25	8.47	8.21	8.78	7.89	8.59

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-031-SA5DN-SS-0.0-0.5	SL-031-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SS-0.0-0.5	SL-032-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SB-10.0-11.0	SL-033-SA5DN-SS-0.0-0.5	SL-033-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/19/2011	06/14/2011
SDG		DE157	DE181	DE157	DE180	DE180	DE157	DE180
Start Depth		0	4	0	4	10	0	4
End Depth		0.5	5	0.5	5	11	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	2.2	1.9	1.7 U	2	1.7	1.8 U	1.9
Fluoride	mg/kg	1.2 UJ Q	6.8 J Q	1.1 J Q	20.7 J Q	5.8 J Q	2.1 J Q	5.2 J Q
Cyanide	mg/kg	0.57 U	0.54 U	0.56 U	0.56 U	0.55 U	0.58 U	0.58 U
Aluminum	mg/kg	33900	21400	30900	30700	17500	28900	29000
Iron	mg/kg	32700	23300	51800	29900	24200	31000	30400
Lead	mg/kg	11.5 J A	11.8 J Q	16.6 J A	8.23 J Q, A	4.07 J Q, A	15.3 J A	9.16 J Q, A
Lithium	mg/kg	29	21.4	27.5	28.3	22.9	27.3	25.2
Magnesium	mg/kg	6860	5100	6930	5970	4690	7190	6920
Manganese	mg/kg	247	201 J Q, E	423	268 J E	318 J E	371	290 J E
Mercury	mg/kg	0.114 U	0.112 U	0.0116 J Z	0.113 U B	0.108 U B	0.0044 J Z	0.112 UJ FD, B
Molybdenum	mg/kg	0.276 J E, Q	0.389 J Q	0.625 J E, Q	0.369	0.277	0.650 J E, Q	0.321
Nickel	mg/kg	21.2 J E, Q, A	28.9 J Q, E	33.9 J E, Q, A	16.3 J Q, A	12.9 J Q, A	33.0 J E, Q, A	18.4 J Q, A
Potassium	mg/kg	2760 J Q	2680 J Q	3760 J Q	2950 J Q	2370 J Q	3680 J Q	3130 J Q
Silver	mg/kg	0.0362 J Q, Z	0.0672 J Q, Z	0.0963 J Q, Z	0.104 J Z	0.0409 J Z	0.0754 J Q, Z	0.0490 J Z
Sodium	mg/kg	153	427	128	535	383	121	416
Strontium	mg/kg	49.8	66.6	42.5	35.4	22.9	43.6	43.7
Thallium	mg/kg	0.445 J Q	0.431 J Q	0.486 J Q	0.349	0.233	0.496 J Q	0.346
Tin	mg/kg	11.2 U B	11.5 U B	11.0 U B	11.1 U B	10.4 U B	11.5 U B	11.6 U B
Titanium	mg/kg	1250	1100	1210	1110 J L	1260 J L	1210	1240 J L
Antimony	mg/kg	0.245 J Q	0.223 UJ B, Q	0.325 J Q	0.0872 J Q, E, Z	0.214 UJ Q, E	0.367 J Q	0.0937 J FD, Q, E, Z
Arsenic	mg/kg	8.18 J E, A	9.64 J Q	9.98 J E, A	6	6.06	11.0 J E, A	5.9
Beryllium	mg/kg	0.882	1.03 J Q	1.14	0.888	0.589	1.1	0.816
Barium	mg/kg	151 J E, A	177 J E, A	140 J E, A	128	85.3	142 J E, A	145
Boron	mg/kg	11.3	8.01	1.34 J Z	2.82 J Z	5.20 U	12.4	5.81 U B, F
Cadmium	mg/kg	0.217 J Q	0.489 J Q	0.311 J Q	0.154	0.138	0.453 J Q	0.288
Chromium	mg/kg	37.0 J E	35.1 J Q	47.3 J E	28.9 J A	20.2 J A	46.9 J E	30.0 J A
Cobalt	mg/kg	8.85 J E, Q, A	13.1 J E, Q	15.0 J E, Q, A	9.65 J A	5.75 J A	16.4 J E, Q, A	10.9 J A
Copper	mg/kg	17.7 J E, Q, A	14.4 J E, Q	26.6 J E, Q, A	12.2 J Q, A	8.82 J Q, A	26.4 J E, Q, A	14.2 J Q, A
Vanadium	mg/kg	67.5 J E	70.6	86.4 J E	52.0 J A	39.3 J A	86.7 J E	52.7 J A
Zinc	mg/kg	67.0 J E, A	77.2	126 J E, A	55.8 J E, A	48.8 J E, A	120 J E, A	75.0 J E, A
Zirconium	mg/kg	3.79 J Z	4.15 J Z	2.53 J Z	5.06 J Z	3.55 J Z	3.88 J Z	4.48 J Z
Calcium	mg/kg	39700 J E	73600 J E	11200 J E	9080 J E	4030 J E	13700 J E	15300 J E
Phosphorus	mg/kg	196 J Q	314 J Q	324 J Q	209 J Q	316 J Q	378 J Q	228 J Q
Selenium	mg/kg	0.0615 J Q, Z	0.445 U	0.137 J Q, Z	0.447 U	0.428 U	0.181 J Q, Z	0.106 J Z
Chromium VI	mg/kg	1.1 J Z	0.27 J Z	0.58 J Z	0.62 J Z	1.1 U	0.52 J Z	0.79 J Z
Perchlorate (314.0)	ug/kg	34.8 U	34.4 U	33.6 U	34.2 U	32.8 U	35.1 U	34.9 U
Perchlorate (6850)	ug/kg	--	3.6 J Z	5.6 U	--	3.2 J Z	--	--
Percent Moisture	%	13.9	12.8	10.6	12.3	8.4	14.5	14
pH	pH unit	8.03	8.67	8.01	8.25	8.46	7.81	8.58

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-033-SA5DN-SB-11.0-12.0	SL-034-SA5DN-SS-0.0-0.5	SL-034-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SS-0.0-0.5	SL-035-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SB-9.5-10.5	SL-036-SA5DN-SS-0.0-0.5
Sample Date		06/14/2011	05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/20/2011
SDG		DE180	DE157	DE181	DE157	DE180	DE180	DE158
Start Depth		11	0	4	0	4	9.5	0
End Depth		12	0.5	5	0.5	5	10.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.4 J Z	1.7 U	1.9	1.7 U	1.6 J Z	1.7	1.7 U
Fluoride	mg/kg	2.9 J Q	1.4 J Q	11.0 J Q	1.2 UJ Q	9.6 J Q	5.6 J Q	1.8 J Q
Cyanide	mg/kg	0.53 U	0.53 U	0.57 U	0.57 U	0.58 U	0.55 U	0.53 U
Aluminum	mg/kg	18200	28400	25500	34800	32500	17700	25700
Iron	mg/kg	25700	31100	27500	35500	35200	26700	33000
Lead	mg/kg	4.72 J Q, A	16.7 J A	10.7 J Q	16.8 J A	8.82 J Q, A	7.27 J Q, A	21.0 J A
Lithium	mg/kg	29.3	25.2	24.9	28	26.6	32.7	22.5
Magnesium	mg/kg	5600	6570	5900	7650	6920	8300	6930
Manganese	mg/kg	341 J E	380	263 J Q, E	571	169 J E	370 J E	359
Mercury	mg/kg	0.107 U B	0.107 U	0.0124 J Z	0.109 U	0.112 U B	0.107 U B	0.0235 J Z
Molybdenum	mg/kg	0.311	0.567 J E, Q	0.390 J Q	0.651 J E, Q	0.267	0.258	0.827 J Q
Nickel	mg/kg	12.6 J Q, A	28.1 J E, Q, A	25.1 J Q, E	38.2 J E, Q, A	14.5 J Q, A	27.2 J Q, A	40.7 J Q, A
Potassium	mg/kg	2290 J Q	3610 J Q	3320 J Q	4300 J Q	2480 J Q	2430 J Q	3700 J Q
Silver	mg/kg	0.0300 J Z	0.0730 J Q, Z	0.0862 J Q, Z	0.0785 J Q, Z	0.0255 J Z	0.0244 J Z	0.119 J Q
Sodium	mg/kg	364	145	557	363	491	222	108 J Z
Strontium	mg/kg	42.6	42.4	64.8	50	52	37.3	42.9
Thallium	mg/kg	0.284	0.352 J Q	0.392 J Q	0.503 J Q	0.319	0.281	0.625 J Q
Tin	mg/kg	10.8 U B	10.7 U B	11.5 U B	11.4 U B	11.7 U B	11.2 U B	11.1 U B
Titanium	mg/kg	1310 J L	1220	1220	1340	1150 J L	1500 J L	1300
Antimony	mg/kg	0.223 UJ Q, E	0.355 J Q	0.228 UJ B, Q	0.332 J Q	0.0973 J Q, E, Z	0.224 UJ Q, E	0.445 J Q
Arsenic	mg/kg	5.44	9.38 J E, A	9.14 J Q	10.6 J E, A	6.54	5.18	11.0 J Q
Beryllium	mg/kg	0.605	1.04	0.913 J Q	1.29	0.728	0.577	1.27 J Q
Barium	mg/kg	90.9	119 J E, A	168 J E, A	172 J E, A	119	82.4	161
Boron	mg/kg	5.42 U	11.6	8.86	13.8	5.85 U B, F	5.60 U	16.7
Cadmium	mg/kg	0.154	0.525 J Q	0.358 J Q	0.492 J Q	0.0996 J Z	0.110 J Z	0.559 J Q
Chromium	mg/kg	21.0 J A	38.8 J E	35.4 J Q	53.3 J E	30.6 J A	42.7 J A	55.3 J Q, A
Cobalt	mg/kg	7.18 J A	14.8 J E, Q, A	10.6 J E, Q	18.3 J E, Q, A	6.73 J A	8.41 J A	18.8 J Q, A
Copper	mg/kg	9.05 J Q, A	24.2 J E, Q, A	11.9 J E, Q	28.4 J E, Q, A	12.6 J Q, A	13.1 J Q, A	23.2 J A
Vanadium	mg/kg	39.4 J A	74.4 J E	68.1	99.3 J E	52.8 J A	46.5 J A	100 J A
Zinc	mg/kg	56.5 J E, A	112 J E, A	70.1	120 J E, A	52.6 J E, A	53.9 J E, A	131 J A
Zirconium	mg/kg	3.43 J Z	3.37 J Z	4.45 J Z	4.53 J Z	5.04 J Z	4.61 J Z	3.17 J Z
Calcium	mg/kg	18700 J E	13800 J E	42900 J E	6760 J E	16500 J E	8730 J E	9270
Phosphorus	mg/kg	608 J Q	359 J Q	306 J Q	284 J Q	127 J Q	498 J Q	303
Selenium	mg/kg	0.0825 J Z	0.110 J Q, Z	0.456 U	0.262 J Q, Z	0.459 U	0.448 U	0.165 J Q, Z
Chromium VI	mg/kg	1.1 U	0.38 J Z	1.2 U	0.72 J Z	0.39 J Z	0.30 J Z	0.94 J Z
Perchlorate (314.0)	ug/kg	33.5 U	33.0 U	34.5 U	34.6 U	35.1 U	33.6 U	34.2 U
Perchlorate (6850)	ug/kg	5.6 U	--	--	--	--	--	--
Percent Moisture	%	10.5	9.2	13.1	13.3	14.6	10.7	12.3
pH	pH unit	8.77	8.07	8.66	7.48	8.44	8.27	8.16

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA5DN-SB-4.0-5.0	SL-036-SA5DN-SB-9.0-10.0	SL-037-SA5DN-SS-0.0-0.5	SL-037-SA5DN-SB-4.0-5.0	SL-037-SA5DN-SB-11.5-12.5	SL-038-SA5DN-SS-0.0-0.5	SL-038-SA5DN-SB-4.0-5.0
Sample Date		06/07/2011	06/07/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011
SDG		DE175	DE175	DE158	DE177	DE177	DE158	DE177
Start Depth		4	9	0	4	11.5	0	4
End Depth		5	10	0.5	5	12.5	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	1.8 U	1.2 J Z	0.97 J Z	1.5 J Z	1.3 J Z	1.0 J Z	2.4
Fluoride	mg/kg	13.1 J Q	8.7 J Q	1.7 J Q	5.2	4.3	2.0 J Q	10.2
Cyanide	mg/kg	0.59 U	0.55 U	0.57 U	0.57 U	2.8 U	0.57 U	0.57 U
Aluminum	mg/kg	29400	26600	23300	30800 J E	23100 J E	25800	30000 J E
Iron	mg/kg	34600	30800	31000	35300	34500	31400	32500
Lead	mg/kg	10.7 J Q	8.54 J Q	14.0 J A	9.77 J Q, A	13.3 J Q, A	16.4 J A	18.3 J Q, A
Lithium	mg/kg	26.8	26.3	20.7	24.8	32.5	22.7	25.9
Magnesium	mg/kg	6880	6150	6290	6790	6990	6500	7260
Manganese	mg/kg	364 J E	220 J E	415	452 J E	237 J E	397	391 J E
Mercury	mg/kg	0.0044 J Z	0.110 U	0.0065 J Z	0.0084 J Z	0.0157 J Z	0.0095 J Z	0.0332 J Z
Molybdenum	mg/kg	0.246 J Q	0.336 J Q	0.595 J Q	0.55	0.413	0.709 J Q	0.626
Nickel	mg/kg	21.6 J Q, E	22.2 J Q, E	24.3 J Q, A	23.9 J Q	18.1 J Q	30.6 J Q, A	27.3 J Q
Potassium	mg/kg	2900 J Q	3090 J Q	3860 J Q	4100 J Q	2190 J Q	3880 J Q	3890 J Q
Silver	mg/kg	0.0368 J Q, Z	0.0712 J Q, Z	0.0629 J Q, Z	0.0533 J Z	0.0679 J Z	0.0697 J Q, Z	0.0623 J Z
Sodium	mg/kg	540	449	99.1 J Z	327	378	110 J Z	221
Strontium	mg/kg	48.3	45.2	37.9	36.5	39	42.2	44
Thallium	mg/kg	0.345 J Q	0.362 J Q	0.420 J Q	0.391	0.314	0.508 J Q	0.444
Tin	mg/kg	11.4 U B	11.3 U B	11.1 U B	11.6 U B	11.0 U B	11.4 U B	11.1 U B
Titanium	mg/kg	987	1020	1260	891	1100	1160	954
Antimony	mg/kg	0.185 J Q, Z	0.270 J Q	0.359 J Q	0.329	0.180 J Z	0.399 J Q	0.302
Arsenic	mg/kg	5.64 J Q, E	6.92 J Q, E	6.97 J Q	7.17 J Q	8.41 J Q	8.59 J Q	6.91 J Q
Beryllium	mg/kg	1.21 J Q	0.959 J Q	0.975 J Q	0.848 J Q	0.926 J Q	1.10 J Q	1.06 J Q
Barium	mg/kg	168	149	180	146	113	150	189
Boron	mg/kg	14	12.3	15.6	8.14	5.48 U B	17.6	7.88
Cadmium	mg/kg	0.255 J Q	0.128 J Q	0.410 J Q	0.271	0.119	0.427 J Q	0.455
Chromium	mg/kg	27.5 J Q, A	32.3 J Q, A	39.0 J Q, A	36.2 J Q	29.2 J Q	44.8 J Q, A	36.4 J Q
Cobalt	mg/kg	7.89 J E, Q	8.54 J E, Q	11.6 J Q, A	11.6	8.02	14.3 J Q, A	13.8
Copper	mg/kg	12.2 J Q	15.9 J Q	16.6 J A	20.6 J Q	16.8 J Q	22.9 J A	21.0 J Q
Vanadium	mg/kg	43.6 J E, A	50.7 J E, A	74.8 J A	69.2	51	84.9 J A	65.5
Zinc	mg/kg	55.7	74.5	98.3 J A	77.3 J Q, A	68.9 J Q, A	113 J A	105 J Q, A
Zirconium	mg/kg	3.20 J Z	3.62 J Z	2.81 J Z	3.69 J Z	3.33 J Z	3.25 J Z	3.29 J Z
Calcium	mg/kg	19500 J E	19600 J E	14900	7110	26700	10500	9350
Phosphorus	mg/kg	204	201	324	286 J Q	424 J Q	333	273 J Q
Selenium	mg/kg	0.0464 J Z	0.453 U	0.172 J Q, Z	0.230 J Z	0.161 J Z	0.177 J Q, Z	0.229 J Z
Chromium VI	mg/kg	0.60 J Z	1.2 U	0.70 J Z	0.54 J Z	1.1 U	0.85 J Z	0.62 J Z
Perchlorate (314.0)	ug/kg	35.3 U	34.6 U	34.6 U	36.5 U	33.5 U	35.1 U	34.8 U
Perchlorate (6850)	ug/kg	5.9 U	--	--	--	--	--	--
Percent Moisture	%	15.1	13.4	13.3	17.9	10.5	14.5	13.9
pH	pH unit	8.7	8.92	7.99	8.16	8.9	8.05	8.15

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-038-SA5DN-SB-10.5-11.5	SL-039-SA5DN-SS-0.0-0.5	SL-039-SA5DN-SB-4.0-5.0	SL-039-SA5DN-SB-11.5-12.5	SL-040-SA5DN-SS-0.0-0.5	SL-040-SA5DN-SB-4.0-5.0	SL-040-SA5DN-SB-10.5-11.5
Sample Date		06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011
SDG		DE177	DE158	DE177	DE177	DE158	DE177	DE177
Start Depth		10.5	0	4	11.5	0	4	10.5
End Depth		11.5	0.5	5	12.5	0.5	5	11.5
Chemical Name	Unit							
Nitrate	mg/kg	1.6 J Z	1.0 J Q, Z	2	1.9	1.1 J Q, Z	2	1.2 J Z
Fluoride	mg/kg	3.3	1.3 J Q	12.4	4.1	1.6 J Q	9.2 J Q	1.6
Cyanide	mg/kg	0.54 U	0.57 U	0.56 U	0.57 U	0.58 U	0.55 U	0.53 U
Aluminum	mg/kg	15100 J E	26400	31900 J E	17100 J E	26000	29900 J E	2970 J E
Iron	mg/kg	19800	31900	35600	22200	32600	33000	4320
Lead	mg/kg	6.66 J Q, A	16.9 J A	13.1 J Q, A	6.16 J Q, A	14.7 J A	14.1 J Q, A	2.01 J Q, A
Lithium	mg/kg	20.1	23.5	27.7	22.6	23.2	24.6	1.3 J Z
Magnesium	mg/kg	3730	6660	7490	4300	6640	6690	893
Manganese	mg/kg	134 J E	375	387 J E	218 J E	468	372 J E	126 J E
Mercury	mg/kg	0.108 U	0.0098 J Z	0.0355 J Z	0.111 U	0.115 U	0.0154 J Z	0.106 U
Molybdenum	mg/kg	0.28	0.711 J Q	0.638	0.37	0.576 J Q	0.588	0.618
Nickel	mg/kg	11.5 J Q	31.1 J Q, A	32.3 J Q	13.0 J Q	28.2 J Q, A	25.2 J Q	6.64 J Q
Potassium	mg/kg	1820 J Q	4240 J Q	3920 J Q	1950 J Q	3910 J Q	3720 J Q	459 J Q
Silver	mg/kg	0.0162 J Z	0.0842 J Q, Z	0.0890 J Z	0.135	0.0698 J Q, Z	0.0528 J Z	0.103 U
Sodium	mg/kg	215	97.0 J Z	358	258	110 J Z	273	164
Strontium	mg/kg	18.4	40.4	43.6	42	43.6	41.5	33.5
Thallium	mg/kg	0.275	0.492 J Q	0.447	0.264	0.444 J Q	0.333	0.103 U
Tin	mg/kg	10.6 U B	11.4 U B	11.7 U B	11.4 U B	11.6 U B	11.1 U B	10.4 U B
Titanium	mg/kg	992	1170	938	1040	1230	1100	189
Antimony	mg/kg	0.165 J Z	0.374 J Q	0.48	0.133 J Z	0.310 J Q	0.349	0.114 J Z
Arsenic	mg/kg	6.27 J Q	8.65 J Q	8.80 J Q	5.50 J Q	7.57 J Q	6.56 J Q	2.50 J Q
Beryllium	mg/kg	0.721 J Q	1.16 J Q	1.16 J Q	0.773 J Q	0.965 J Q	0.872 J Q	0.143 J Q
Barium	mg/kg	73.3	159	156	95.5	194	154	21
Boron	mg/kg	5.32 U B	17.9	8.3	5.68 U B	17.9	8.21	5.18 U B
Cadmium	mg/kg	0.0777 J Z	0.538 J Q	0.395	0.185	0.488 J Q	0.38	0.0879 J Z
Chromium	mg/kg	20.0 J Q	45.7 J Q, A	44.2 J Q	30.0 J Q	38.6 J Q, A	33.7 J Q	12.4 J Q
Cobalt	mg/kg	6.77	15.1 J Q, A	14.3	5.92	13.5 J Q, A	12.5	1.99
Copper	mg/kg	9.57 J Q	18.5 J A	25.0 J Q	9.58 J Q	16.6 J A	18.8 J Q	2.61 J Q
Vanadium	mg/kg	39.8	88.0 J A	79.8	41.4	73.0 J A	63.1	12.9
Zinc	mg/kg	47.1 J Q, A	103 J A	107 J Q, A	48.7 J Q, A	96.7 J A	93.1 J Q, A	10.1 J Q, A
Zirconium	mg/kg	2.33 J Z	3.37 J Z	4.91 J Z	2.98 J Z	3.15 J Z	4.28 J Z	1.74 J Z
Calcium	mg/kg	7530	9210	11000	26100	13200	10700	18800
Phosphorus	mg/kg	129 J Q	363	298 J Q	269 J Q	339	259 J Q	324 J Q
Selenium	mg/kg	0.438 U	0.170 J Q, Z	0.113 J Z	0.437 U	0.154 J Q, Z	0.163 J Z	0.410 U
Chromium VI	mg/kg	1.1 U	0.64 J Z	0.63 J Z	0.38 J Z	0.95 J Z	0.73 J Z	1.1 U
Perchlorate (314.0)	ug/kg	33.2 U	35.2 U	35.0 U	34.1 U	35.0 U	34.9 U	32.0 U
Perchlorate (6850)	ug/kg	5.5 U	5.9 U	--	--	--	--	--
Percent Moisture	%	9.6	14.7	14.4	11.9	14.4	14.1	6.2
pH	pH unit	8.81	7.98	8.44	8.69	8.02	8.16	8.82

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-041-SA5DN-SS-0.0-0.5	SL-041-SA5DN-SB-4.0-5.0	SL-041-SA5DN-SB-9.0-10.0	SL-042-SA5DN-SS-0.0-0.5	SL-042-SA5DN-SB-4.0-5.0	SL-042-SA5DN-SB-9.0-10.0	SL-043-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011
SDG		DE157	DE178	DE178	DE157	DE179	DE179	DE157
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	2.3	1.3 J Z	2.5	1.9 J Z	1.6 J Z	1.5 J Z	2.5
Fluoride	mg/kg	1.1 J Q, Z	5.6 J Q	8.9 J Q	2.4	7.1 J Q	3.3 J Q	1.2 UJ FD, Q
Cyanide	mg/kg	0.58 U	0.59 U	0.55 U	0.92 U	0.58 U	0.54 U	0.55 U
Aluminum	mg/kg	31400	29300 J E	26900 J E	47700	35000	11600	30200
Iron	mg/kg	33300	33200	27500	49200	35400	12500	31900
Lead	mg/kg	24.0 J A	18.1 J Q, A	3.15 J Q, A	30.1 J A	10.5 J E, Q	5.73 J E, Q	17.2 J A
Lithium	mg/kg	26.4	24.8	22.6	40.7	28.6	8.5	26
Magnesium	mg/kg	7440	6810	5890	10500	7160	2480	6850
Manganese	mg/kg	689	589 J E	237 J E	788	415	231	358
Mercury	mg/kg	0.0169 J Z	0.115 U	0.109 U	0.178 U	0.115 U	0.106 U	0.0092 J FD, Z
Molybdenum	mg/kg	0.752 J E, Q	0.439	0.585	1.16 J E, Q	0.466	0.698	0.845 J E, Q
Nickel	mg/kg	35.7 J E, Q, A	23.9 J Q	7.91 J Q	57.3 J E, Q, A	22.7	14.5	34.4 J E, Q, A
Potassium	mg/kg	4100 J Q	3730 J Q	2920 J Q	6080 J Q	3430 J Q	1380 J Q	4060 J Q
Silver	mg/kg	0.114 J Q	0.0648 J Z	0.109 U	0.117 J Q, Z	0.0530 J Z	0.0246 J Z	0.0937 J FD, Q, Z
Sodium	mg/kg	114 J Z	308	335	181 J Z	514	173	137
Strontium	mg/kg	42.4	43.7	36.3	66.2	46.2	21.9	40.1
Thallium	mg/kg	0.456 J Q	0.51	0.0669 J Z	0.807 J Q	0.396	0.188	0.439 J Q
Tin	mg/kg	11.6 U B	11.7 U B	10.8 U B	18.3 U B	11.7 U B	10.6 U B	11.4 U B
Titanium	mg/kg	1260	1050	370	2030	1490 J L	670 J L	1220
Antimony	mg/kg	0.465 J Q	0.258	0.174 J Z	0.535 J Q	0.229 UJ B, Q	0.212 UJ B, Q	0.442 J Q
Arsenic	mg/kg	10.7 J E, A	5.70 J Q	2.91 J Q	16.6 J E, A	7.21	4.83	10.5 J E, A
Beryllium	mg/kg	1.18	0.861 J Q	0.228 J Q	1.75	1.06	0.537	1.22
Barium	mg/kg	145 J E, A	159	37.5	263 J E, A	136	78	126 J E, A
Boron	mg/kg	14.5	6.92	5.63	20.6	5.49 J Z	2.44 J Z	13.6
Cadmium	mg/kg	0.522 J Q	0.469	0.0853 J Z	0.785 J Q	0.195	0.199	0.465 J Q
Chromium	mg/kg	52.0 J E	40.3 J Q	15.2 J Q	81.1 J E	42.5	27.4	44.0 J E
Cobalt	mg/kg	17.5 J E, Q, A	11.5	3.15	28.9 J E, Q, A	11.1	5.78	16.4 J E, Q, A
Copper	mg/kg	29.9 J E, Q, A	18.4 J Q	4.66 J Q	44.4 J E, Q, A	17.7 J E	9.40 J E	27.9 J E, Q, A
Vanadium	mg/kg	96.3 J E	68.1	19.7	152 J E	77.9	41.7	81.2 J E
Zinc	mg/kg	149 J E, A	74.1 J Q, A	18.6 J Q, A	203 J E, A	68.3	43.2	131 J E, A
Zirconium	mg/kg	5.80 U	3.31 J Z	3.96 J Z	6.06 J Z	5.81 J Z	3.75 J Z	4.23 J Z
Calcium	mg/kg	9850 J E	12100	10100	17400 J E	14700 J E	5450 J E	11000 J E
Phosphorus	mg/kg	419 J Q	262 J Q	215 J Q	568 J Q	239 J Q	345 J Q	380 J Q
Selenium	mg/kg	0.231 J Q, Z	0.216 J Z	0.437 U	0.305 J Q, Z	0.113 J Z	0.0667 J Z	0.225 J Q, Z
Chromium VI	mg/kg	0.57 J Z	2.1	1.1 U	0.70 J Z	0.37 J Z	0.49 J Z	0.76 J FD, Z
Perchlorate (314.0)	ug/kg	35.1 U	35.8 U	33.8 U	55.5 U	35.4 U	33.1 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	5.6 U	--	--	5.5 U	--
Percent Moisture	%	14.6	16.1	11.2	45.9	15.2	9.5	13.3
pH	pH unit	7.97	8.14	8.4	8.04	8.43	8.83	7.95

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-043-SA5DN-SB-4.0-5.0	SL-043-SA5DN-SB-9.0-10.0	SL-044-SA5DN-SS-0.0-0.5	SL-044-SA5DN-SB-4.0-5.0	SL-044-SA5DN-SB-12.0-13.0	SL-045-SA5DN-SS-0.0-0.5	SL-045-SA5DN-SB-4.0-5.0
Sample Date		06/13/2011	06/13/2011	05/20/2011	06/14/2011	06/14/2011	05/19/2011	06/10/2011
SDG		DE179	DE179	DE158	DE180	DE180	DE157	DE178
Start Depth		4	9	0	4	12	0	4
End Depth		5	10	0.5	5	13	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	1.7	2.8	1.0 J Q, Z	1.5 J Z	6.1	1.4 J Z	1.8 U
Fluoride	mg/kg	8.4 J Q	7.9 J Q	1.8 J Q	3.8 J Q	4.9 J Q	1.9	13.6 J Q
Cyanide	mg/kg	0.57 U	0.57 U	0.56 U	0.57 U	0.54 U	0.57 U	0.56 U
Aluminum	mg/kg	33700	29700	22700	31500	17200	30000	34000 J E
Iron	mg/kg	34900	33200	28800	32600	22200	31700	33000
Lead	mg/kg	10.2 J E, Q	10.8 J E, Q	16.0 J A	11.8 J Q, A	4.67 J Q, A	40.0 J A	13.0 J Q, A
Lithium	mg/kg	28	25	20.4	28.1	23.3	25.4	27.3
Magnesium	mg/kg	7030	5780	6400	6900	4850	6910	6920
Manganese	mg/kg	367	337	449	392 J E	269 J E	401	230 J E
Mercury	mg/kg	0.114 U	0.113 U	0.0059 J Z	0.109 U B	0.109 U B	0.110 U	0.115 U
Molybdenum	mg/kg	0.416	0.721	0.535 J Q	0.38	0.37	1.58 J E, Q	0.432
Nickel	mg/kg	22.6	24.4	25.3 J Q, A	20.3 J Q, A	10.5 J Q, A	45.7 J E, Q, A	23.7 J Q
Potassium	mg/kg	3410 J Q	3490 J Q	3560 J Q	3570 J Q	2570 J Q	4230 J Q	3510 J Q
Silver	mg/kg	0.0480 J Z	0.0538 J Z	0.0529 J Q, Z	0.0884 J Z	0.0265 J Z	0.0509 J Q, Z	0.0746 J Z
Sodium	mg/kg	525	370	140	432	387	115	603
Strontium	mg/kg	45.7	36.1	48.4	50	41.2	42.4	43
Thallium	mg/kg	0.341	0.438	0.435 J Q	0.36	0.246	0.476 J Q	0.412
Tin	mg/kg	11.3 U B	11.4 U B	11.3 U B	11.5 U B	11.1 U B	11.3 U B	11.8 U B
Titanium	mg/kg	1400 J L	1480 J L	1320	1240 J L	1190 J L	1300	1270
Antimony	mg/kg	0.229 UJ B, Q	0.230 UJ B, Q	0.292 J Q	0.0965 J Q, E, Z	0.226 UJ Q, E	0.472 J Q	0.332
Arsenic	mg/kg	6.59	6.65	7.11 J Q	6.05	5.09	13.3 J E, A	7.53 J Q
Beryllium	mg/kg	1.01	1.08	0.926 J Q	0.853	0.513	1.35	1.06 J Q
Barium	mg/kg	129	141	177	156	89	168 J E, A	154
Boron	mg/kg	4.75 J Z	3.55 J Z	15.9	3.63 J Z	5.54 U B, F	12.9	6.5
Cadmium	mg/kg	0.212	0.171	0.358 J Q	0.3	0.136	0.663 J Q	0.158
Chromium	mg/kg	38.1	47.5	36.8 J Q, A	31.5 J A	19.6 J A	56.8 J E	39.7 J Q
Cobalt	mg/kg	11.1	8.59	12.0 J Q, A	11.6 J A	5.99 J A	56.5 J E, Q, A	11.1
Copper	mg/kg	16.4 J E	19.7 J E	15.2 J A	18.6 J Q, A	10.1 J Q, A	31.8 J E, Q, A	20.2 J Q
Vanadium	mg/kg	72.4	80.6	71.2 J A	56.3 J A	37.1 J A	105 J E	67.6
Zinc	mg/kg	65.5	75.1	105 J A	107 J E, A	53.9 J E, A	140 J E, A	75.6 J Q, A
Zirconium	mg/kg	5.23 J Z	5.15 J Z	2.54 J Z	5.41 J Z	4.50 J Z	3.85 J Z	4.47 J Z
Calcium	mg/kg	14500 J E	5530 J E	20000	10300 J E	17100 J E	11600 J E	7510
Phosphorus	mg/kg	254 J Q	274 J Q	339	282 J Q	355 J Q	361 J Q	221 J Q
Selenium	mg/kg	0.0667 J Z	0.459 U	0.140 J Q, Z	0.116 J Z	0.0661 J Z	0.186 J Q, Z	0.0776 J Z
Chromium VI	mg/kg	0.47 J Z	1.1 U	0.80 J Z	0.45 J Z	0.38 J Z	1.2 U	1.2 U
Perchlorate (314.0)	ug/kg	34.4 U	34.4 U	34.2 U	35.3 U	33.9 U	34.7 U	35.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.7	12.9	12.2	15	11.5	13.5	15.3
pH	pH unit	8.48	8.22	8.15	8.31	8.25	7.94	8.15

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-045-SA5DN-SB-9.0-10.0	SL-046-SA5DN-SS-0.0-0.5	SL-046-SA5DN-SB-4.0-5.0	SL-046-SA5DN-SB-9.0-10.0	SL-047-SA5DN-SS-0.0-0.5	SL-047-SA5DN-SB-4.0-5.0	SL-047-SA5DN-SB-10.0-11.0
Sample Date		06/10/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011
SDG		DE178	DE157	DE179	DE179	DE157	DE179	DE179
Start Depth		9	0	4	9	0	4	10
End Depth		10	0.5	5	10	0.5	5	11
Chemical Name	Unit							
Nitrate	mg/kg	4.1	1.9	1.7	2.6	6.3	2.1	2.6
Fluoride	mg/kg	12.4 J Q	2.3	14.7 J Q	7.4 J Q	1.5	14.4 J Q	3.4 J Q
Cyanide	mg/kg	0.56 U	0.55 U	0.57 U	0.57 U	0.52 U	0.53 U	0.52 U
Aluminum	mg/kg	26100 J E	26100	36000	35000	23800	34300	15500
Iron	mg/kg	27200	29800	36700	34800	27100	35300	23100
Lead	mg/kg	11.7 J Q, A	22.9 J A	13.7 J E, Q	13.9 J E, Q	16.5 J A	14.6 J E, Q	7.02 J E, Q
Lithium	mg/kg	23.8	22.6	32.1	26.1	20.8	30.4	19.4
Magnesium	mg/kg	5610	6490	6750	6770	5880	7370	4840
Manganese	mg/kg	212 J E	389	571	281	361	793	241
Mercury	mg/kg	0.112 U	0.0105 J Z	0.0398 J Z	0.114 U	0.0125 J Z	0.0124 J Z	0.104 U
Molybdenum	mg/kg	0.639	0.683 J E, Q	0.663	0.528	0.415 J E, Q	0.615	0.475
Nickel	mg/kg	33.6 J Q	30.9 J E, Q, A	29.7	34.8	20.2 J E, Q, A	27	16.8
Potassium	mg/kg	3060 J Q	4460 J Q	3880 J Q	3100 J Q	4140 J Q	3660 J Q	2270 J Q
Silver	mg/kg	0.0411 J Z	0.0764 J Q, Z	0.0992 J Z	0.0747 J Z	0.0525 J Q, Z	0.0646 J Z	0.0260 J Z
Sodium	mg/kg	576	132	580	621	118	685	286
Strontium	mg/kg	37.3	36.5	39.7	42	33.5	43.9	24.8
Thallium	mg/kg	0.471	0.439 J Q	0.429	0.512	0.327 J Q	0.433	0.36
Tin	mg/kg	11.1 U B	11.3 U B	11.3 U B	11.3 U B	10.6 U B	11.1 U B	10.4 U B
Titanium	mg/kg	1180	1290	1700 J L	1320 J L	1130	1620 J L	1360 J L
Antimony	mg/kg	0.369	0.285 J Q	0.222 UJ B, Q	0.223 UJ B, Q	0.266 J Q	0.220 UJ B, Q	0.210 UJ B, Q
Arsenic	mg/kg	9.61 J Q	8.49 J E, A	7.43	11	5.64 J E, A	9.46	6.52
Beryllium	mg/kg	1.31 J Q	0.967	1.38	1.45	0.594	1.24	0.62
Barium	mg/kg	153	153 J E, A	174	146	143 J E, A	161	98.1
Boron	mg/kg	4.71 J Z	12.4	5.60 J Z	2.95 J Z	12.2	7.57	5.20 U
Cadmium	mg/kg	0.273	0.463 J Q	0.301	0.155	0.398 J Q	0.308	0.117
Chromium	mg/kg	45.7 J Q	40.7 J E	51.4	64.1	28.1 J E	52.1	32.4
Cobalt	mg/kg	10.7	14.6 J E, Q, A	14	13.9	11.2 J E, Q, A	15.9	10.2
Copper	mg/kg	21.2 J Q	24.8 J E, Q, A	22.1 J E	25.9 J E	16.9 J E, Q, A	21.4 J E	13.7 J E
Vanadium	mg/kg	84.8	82.5 J E	93.6	115	55.3 J E	100	58.6
Zinc	mg/kg	86.7 J Q, A	107 J E, A	84.1	92.8	92.4 J E, A	76.2	62.2
Zirconium	mg/kg	4.74 J Z	3.54 J Z	5.98	5.01 J Z	3.24 J Z	6.21	3.25 J Z
Calcium	mg/kg	9870	11400 J E	6340 J E	6680 J E	8010 J E	6560 J E	9420 J E
Phosphorus	mg/kg	269 J Q	466 J Q	313 J Q	198 J Q	467 J Q	397 J Q	294 J Q
Selenium	mg/kg	0.456 U	0.148 J Q, Z	0.0665 J Z	0.0667 J Z	0.181 J Q, Z	0.440 U	0.0619 J Z
Chromium VI	mg/kg	1.2 U	0.52 J Z	0.88 J Z	0.41 J Z	0.74 J Z	0.41 J Z	0.32 J Z
Perchlorate (314.0)	ug/kg	34.5 U	34.6 U	34.7 U	34.8 U	32.8 U	33.6 U	32.2 U
Perchlorate (6850)	ug/kg	--	5.8 U	--	5.8 U	--	--	--
Percent Moisture	%	13.1	13.3	13.5	13.8	8.5	10.8	6.7
pH	pH unit	8.3	7.96	7.69	7.85	7.75	8.15	8.62

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-048-SA5DN-SS-0.0-0.5	SL-048-SA5DN-SB-4.0-5.0	SL-048-SA5DN-SB-11.5-12.5	SL-049-SA5DN-SS-0.0-0.5	SL-049-SA5DN-SB-4.0-5.0	SL-049-SA5DN-SB-15.5-16.5	SL-050-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/10/2011	06/10/2011	05/20/2011
SDG		DE157	DE178	DE178	DE157	DE178	DE178	DE158
Start Depth		0	4	11.5	0	4	15.5	0
End Depth		0.5	5	12.5	0.5	5	16.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.4	24.2 J Q	6.5 J Q	1.3	22.9 J Q	8.6 J Q	1.1 UJ Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	21400	32200 J E	18800 J E	22200	29800 J E	20100 J E	19100
Iron	mg/kg	28900	37000	21300	27900	39800	24100	26100
Lead	mg/kg	28.7 J A	13.2 J Q, A	4.98 J Q, A	48.2 J A	15.7 J Q, A	9.00 J Q, A	43.6 J A
Lithium	mg/kg	18.4	29.5	21.8	19.7	26.2	26.2	17
Magnesium	mg/kg	5600	8640	4090	5880	7730	5130	5340
Manganese	mg/kg	446	392 J E	357 J E	358	493 J E	169 J E	807
Mercury	mg/kg	0.0411 J Z	0.109 U	0.105 U	0.0092 J Z	0.0151 J Z	0.0422 J Z	0.0232 J Z
Molybdenum	mg/kg	1.07 J E, Q	0.467	0.481	0.844 J E, Q	0.568	0.6	0.976 J Q
Nickel	mg/kg	19.0 J E, Q, A	28.8 J Q	18.3 J Q	22.7 J E, Q, A	31.3 J Q	23.9 J Q	32.4 J Q, A
Potassium	mg/kg	4050 J Q	3590 J Q	1680 J Q	4300 J Q	3730 J Q	2890 J Q	4190 J Q
Silver	mg/kg	0.226 J Q	0.0609 J Z	0.0469 J Z	0.0518 J Q, Z	0.0715 J Z	0.0361 J Z	0.0770 J Q, Z
Sodium	mg/kg	213	745	383	151	663	365	94.2 J Z
Strontium	mg/kg	38.8	47.1	22.7	32.4	51.6	29.3	29.2
Thallium	mg/kg	0.390 J Q	0.425	0.345	0.315 J Q	0.475	0.307	0.465 J Q
Tin	mg/kg	11.0 U B	11.5 U B	10.7 U B	10.9 U B	11.5 U B	10.9 U B	10.7 U B
Titanium	mg/kg	1210	568	1180	1230	881	1150	1220
Antimony	mg/kg	0.277 J Q	0.353	0.254	0.335 J Q	0.38	0.256	0.595 J Q
Arsenic	mg/kg	5.58 J E, A	7.92 J Q	7.11 J Q	6.29 J E, A	8.43 J Q	7.82 J Q	7.47 J Q
Beryllium	mg/kg	0.441	1.11 J Q	0.897 J Q	0.499	1.18 J Q	0.793 J Q	0.965 J Q
Barium	mg/kg	137 J E, A	177	119	154 J E, A	201	72.5	144
Boron	mg/kg	10.8	9.27	5.34 U B	10.5	6.22	5.43 U B	14.6
Cadmium	mg/kg	0.646 J Q	0.355	0.0972 J Z	0.718 J Q	0.433	0.231	0.800 J Q
Chromium	mg/kg	28.6 J E	40.7 J Q	27.4 J Q	29.0 J E	44.9 J Q	27.6 J Q	41.2 J Q, A
Cobalt	mg/kg	9.83 J E, Q, A	14	6.25	12.0 J E, Q, A	16.2	10.2	18.1 J Q, A
Copper	mg/kg	24.5 J E, Q, A	22.6 J Q	12.4 J Q	20.0 J E, Q, A	23.4 J Q	15.5 J Q	19.4 J A
Vanadium	mg/kg	56.6 J E	72.4	50.6	62.9 J E	81	56.5	85.1 J A
Zinc	mg/kg	118 J E, A	93.6 J Q, A	51.7 J Q, A	142 J E, A	99.3 J Q, A	62.9 J Q, A	153 J A
Zirconium	mg/kg	3.27 J Z	5.92	3.44 J Z	2.92 J Z	3.91 J Z	3.85 J Z	1.81 J Z
Calcium	mg/kg	7230 J E	7400	6950	6750 J E	8600	4760	5080
Phosphorus	mg/kg	543 J Q	430 J Q	166 J Q	519 J Q	275 J Q	272 J Q	404
Selenium	mg/kg	0.159 J Q, Z	0.0688 J Z	0.0659 J Z	0.114 J Q, Z	0.174 J Z	0.452 U	0.229 J Q, Z
Chromium VI	mg/kg	1.1 U	0.47 J Z	1.1 U	0.69 J Z	0.48 J Z	1.1 U	1.0 J Z
Perchlorate (314.0)	ug/kg	33.4 U	35.0 U	33.7 U	33.1 U	35.5 U	34.2 U	33.2 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.3	14.2	10.9	9.5	15.6	12.3	9.6
pH	pH unit	7.83	8.09	8.37	7.84	8.02	8.22	7.51

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-050-SA5DN-SB-4.0-5.0	SL-050-SA5DN-SB-11.2-12.5	SL-051-SA5DN-SS-0.0-0.5	SL-051-SA5DN-SB-4.0-5.0	SL-051-SA5DN-SB-14.0-15.0	SL-052-SA5DN-SS-0.0-0.5	SL-052-SA5DN-SB-4.0-5.0
Sample Date		06/09/2011	06/09/2011	05/20/2011	06/08/2011	06/08/2011	05/23/2011	06/03/2011
SDG		DE177	DE177	DE158	DE176	DE176	DE159	DE173
Start Depth		4	11.2	0	4	14	0	4
End Depth		5	12.5	0.5	5	15	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	2.2 J Q	4.8	2.2	--	--
Fluoride	mg/kg	25.8	4.4	1.1 UJ Q	18.4 J Q	4.6 J Q	2.9 J Q	20.8 J Q
Cyanide	mg/kg	--	--	0.55 U	0.57 U	0.56 U	--	--
Aluminum	mg/kg	32800 J E	20100 J E	21200	32200	22000	34200	29400
Iron	mg/kg	35700	23500	27000	33900	26500	33900	30600
Lead	mg/kg	13.7 J Q, A	10.5 J Q, A	21.1 J A	15.2 J E, Q	9.94 J E, Q	16.6	9.98 J E, Q
Lithium	mg/kg	28.1	23.5	18.1	26.8	24.5	28.1	25.1
Magnesium	mg/kg	7670	5090	5410	6950	5480	7510	6790
Manganese	mg/kg	372 J E	271 J E	456	592 J E	203 J E	466	679
Mercury	mg/kg	0.106 U	0.108 U	0.0051 J Z	0.111 U	0.112 U	0.0038 J Z	0.109 U
Molybdenum	mg/kg	0.369	0.406	0.692 J Q	0.488 J Q	0.606 J Q	0.649 J E, Q	0.547 J E, Q
Nickel	mg/kg	22.7 J Q	22.4 J Q	23.2 J Q, A	40.2 J Q	28.8 J Q	29.8 J E, Q	19.6 J Q, A
Potassium	mg/kg	3610 J Q	2990 J Q	4310 J Q	2790	2920	5180 J Q	3200
Silver	mg/kg	0.0407 J Z	0.0408 J Z	0.0586 J Q, Z	0.0596 J Q, Z	0.0477 J Q, Z	0.0774 J Q, Z	0.0528 J Q, Z
Sodium	mg/kg	572	477	118	710	330	138	495
Strontium	mg/kg	41.2	29.9	33.9	49.8	31.9	41.5	54.6
Thallium	mg/kg	0.34	0.328	0.359 J Q	0.500 J Q	0.425 J Q	0.506 J Q	0.321 J Q
Tin	mg/kg	11.2 U B	11.0 U B	10.6 U B	11.3 U B	11.1 U B	11.2 U B, Z	11.2 U B
Titanium	mg/kg	1280	1160	1070	930	1210	1660	803
Antimony	mg/kg	0.198 J Z	0.246	0.371 J Q	0.442 J Q	0.316 J Q	0.386 J Q	0.215 UJ B, Q
Arsenic	mg/kg	5.57 J Q	6.85 J Q	5.79 J Q	10.6 J E	7.26 J E	8.16 J E, Q	8.10 J E, Q
Beryllium	mg/kg	0.892 J Q	0.799 J Q	0.814 J Q	1.82 J Q	0.883 J Q	1.09 J E	0.892 J E, Q
Barium	mg/kg	127	75.3	168	168	137	133 J E	162 J E, A
Boron	mg/kg	8.54	5.51 U B	15.4	8.42	6.5	2.42 J Z	5.58 U
Cadmium	mg/kg	0.231	0.218	0.456 J Q	0.427 J Q	0.335 J Q	0.491 J E, Q	0.215 J Q
Chromium	mg/kg	33.3 J Q	28.0 J Q	32.7 J Q, A	42.9 J Q, A	31.9 J Q, A	30.3 J *#	32.0 J Q
Cobalt	mg/kg	10.7	10	11.0 J Q, A	17.8 J Q	12.5 J Q	9.27 J E, *#	10.1 J E, Q
Copper	mg/kg	16.8 J Q	14.8 J Q	15.9 J A	22.4 J Q, A	17.6 J Q, A	23.4 J E, Q	17.5 J Q
Vanadium	mg/kg	54.7	51.6	68.2 J A	75.3 J Q, A	56.7 J Q, A	97.1 J E	56.4
Zinc	mg/kg	69.5 J Q, A	63.1 J Q, A	107 J A	89.2	81	140 J *#	68.3
Zirconium	mg/kg	5.87	3.83 J Z	2.56 J Z	3.18 J Z	3.85 J Z	7.02	5.50 J Z
Calcium	mg/kg	8320	13500	5420	22800	5530	7210 J E	7670
Phosphorus	mg/kg	251 J Q	251 J Q	430	212	293	335 J Q	177
Selenium	mg/kg	0.0900 J Z	0.437 U	0.192 J Q, Z	0.119 J Q, Z	0.448 U	0.216 J Z	0.136 J Q, Z
Chromium VI	mg/kg	0.47 J Z	1.1 U	1.0 J Z	0.35 J Z	0.63 J Z	0.53 J Z	0.33 J Z
Perchlorate (314.0)	ug/kg	34.3 U	33.4 U	33.1 U	34.0 U	34.2 U	34.7 U	33.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.5	10.2	9.4	11.8	12.4	13.5	10.4
pH	pH unit	8.18	7.91	7.04	7.99	8.25	7.74	8.3

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-052-SA5DN-SB-9.0-10.0	SL-053-SA5DN-SS-0.0-0.5	SL-053-SA5DN-SB-4.0-5.0	SL-053-SA5DN-SB-11.5-12.5	SL-054-SA5DN-SS-0.0-0.5	SL-054-SA5DN-SB-4.0-5.0	SL-054-SA5DN-SB-9.0-10.0
Sample Date		06/03/2011	05/23/2011	06/06/2011	06/06/2011	05/18/2011	06/13/2011	06/13/2011
SDG		DE173	DE159	DE174	DE174	DE154	DE179	DE179
Start Depth		9	0	4	11.5	0	4	9
End Depth		10	0.5	5	12.5	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	6.2 J Q	3.7 J Q	15.9 J E, Q	5.2 J E, Q	4.4 J Q	9.3 J Q	4.7 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	29100	24200	34800	22200	21600	27600	35700
Iron	mg/kg	30700	29800	34600	27200	26300	29200	42100
Lead	mg/kg	7.47 J E, Q	16.9	10.0 J E, Q	9.71 J E, Q	14.9 J Q, A	11.7 J E, Q	12.3 J E, Q
Lithium	mg/kg	26.2	19.4	30.3	30.8	20.6	29.1	31.3
Magnesium	mg/kg	6970	5310	7540	5880	6010	5930	8110
Manganese	mg/kg	301	538	242 J E	300 J E	359	881	856
Mercury	mg/kg	0.111 U B	0.0043 J Z	0.0035 J Z	0.107 U	0.112 U B	0.117 U	0.113 U
Molybdenum	mg/kg	0.263 J E, Q	0.907 J E, Q	0.334	0.294	0.417 J Q	0.868	0.742
Nickel	mg/kg	15.5 J Q, A	24.7 J E, Q	19.3	17.1	19.3 J Q, A	28.9	25.6
Potassium	mg/kg	3230	4050 J Q	3170 J Q	3220 J Q	3970 J Q	3540 J Q	3330 J Q
Silver	mg/kg	0.173 J Q	0.0515 J Q, Z	0.0428 J Z	0.0286 J Z	0.0488 J Q, Z	0.0594 J Z	0.0609 J Z
Sodium	mg/kg	735	129	390	266	122	300	495
Strontium	mg/kg	52.4	37.8	61.5	33.5	39.9	38.9	49.5
Thallium	mg/kg	0.325 J Q	0.425 J Q	0.307	0.287	0.306	0.427	0.386
Tin	mg/kg	11.3 U B	11.1 U B, Z	11.7 U B	11.1 U B	11.3 U B	12.0 U B	11.6 U B
Titanium	mg/kg	958	1450	901	1430	1150	1680 J L	1590 J L
Antimony	mg/kg	0.223 UJ B, Q	0.351 J Q	0.259 J Q	0.160 J Q, Z	0.217 J Z	0.235 UJ B, Q	0.232 UJ B, Q
Arsenic	mg/kg	5.51 J E, Q	6.65 J E, Q	5.96	7.77	5.57 J Q	8.16	10.1
Beryllium	mg/kg	0.793 J E, Q	0.913 J E	0.817 J Q	0.735 J Q	0.741 J Q	1.1	1.14
Barium	mg/kg	101 J E, A	187 J E	140	90.3	145	167	143
Boron	mg/kg	10.4 J Z	5.56 U	16.9	11.5	21.3	4.57 J Z	6.35
Cadmium	mg/kg	0.189 J Q	0.461 J E, Q	0.0861 J Z	0.0887 J Z	0.280 J Q	0.508	0.201
Chromium	mg/kg	31.5 J Q	26.4 J *#	30.8 J A	24.7 J A	29.0 J Q, A	43.6	49.9
Cobalt	mg/kg	5.80 J E, Q	10.6 J E, *#	9.43	5.56	10.3 J Q, A	15.5	11.8
Copper	mg/kg	12.9 J Q	20.4 J E, Q	14.2	14	18.0 J Q, A	17.5 J E	24.4 J E
Vanadium	mg/kg	46.1	82.1 J E	53.4 J A	47.1 J A	59.9 J A	87.8	94.2
Zinc	mg/kg	67	108 J *#	58.9	58.5	79.9 J A	81.3	85.5
Zirconium	mg/kg	5.78	5.62	1.98 J Z	1.80 J Z	3.27 J Z	5.49 J Z	7.08
Calcium	mg/kg	10200	9360 J E	18000 J E	4770 J E	24000	5390 J E	7860 J E
Phosphorus	mg/kg	157	445 J Q	179	261	472	391 J Q	460 J Q
Selenium	mg/kg	0.446 U	0.155 J Z	0.468 U	0.0697 J Z	0.0860 J Z	0.0775 J Z	0.130 J Z
Chromium VI	mg/kg	1.1 U	0.43 J Z	0.35 J Z	1.1 U	0.40 J Z	1.7	0.55 J Z
Perchlorate (314.0)	ug/kg	34.4 U	33.7 U	35.1 U	33.5 U	33.9 U	36.4 U	35.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.9	11	14.6	10.4	11.5	17.5	16.3
pH	pH unit	8.75	7.78	8.42	8.59	8.14	7.99	8.31

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-055-SA5DN-SS-0.0-0.5	SL-055-SA5DN-SB-4.0-5.0	SL-055-SA5DN-SB-9.0-10.0	SL-056-SA5DN-SS-0.0-0.5	SL-056-SA5DN-SB-4.0-5.0	SL-056-SA5DN-SB-9.0-10.0	SL-057-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	06/15/2011	06/15/2011	05/18/2011	06/15/2011	06/15/2011	05/24/2011
SDG		DE154	DE181	DE181	DE154	DE181	DE181	DE163
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.3 J Q	7.0 J Q	5.3 J Q	3.6 J Q	7.5 J Q	5.7 J Q	2.4 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	19200	27500	17700	23200	29700	24500	33200
Iron	mg/kg	26200	29000	20400	32300	31200	24900	34800
Lead	mg/kg	15.5 J Q, A	11.7 J Q	6.05 J Q	18.5 J Q, A	11.0 J Q	10.9 J Q	13.0 J Q
Lithium	mg/kg	18.8	25.6	20.5	23.1	26.2	21.9	28.4
Magnesium	mg/kg	6010	6890	3710	7130	7140	5000	8400
Manganese	mg/kg	364	270 J Q, E	147 J Q, E	377	353 J Q, E	150 J Q, E	477
Mercury	mg/kg	0.113 U B	0.108 U	0.104 U	0.107 U B	0.115 U	0.114 U	0.0185 J FD, Q, E, Z
Molybdenum	mg/kg	0.463 J Q	0.392 J Q	0.371 J Q	0.634 J Q	0.290 J Q	0.316 J Q	0.329
Nickel	mg/kg	15.9 J Q, A	25.0 J Q, E	13.8 J Q, E	29.0 J Q, A	29.4 J Q, E	23.0 J Q, E	20.5 J Q
Potassium	mg/kg	3870 J Q	3350 J Q	1810 J Q	3700 J Q	3570 J Q	2190 J Q	5370
Silver	mg/kg	0.303 J Q	0.0714 J Q, Z	0.0860 J Q, Z	0.0599 J Q, Z	0.0527 J Q, Z	0.0836 J Q, Z	0.0417 J Z
Sodium	mg/kg	127	128	150	101 J Z	183	148	104 J Z
Strontium	mg/kg	35.1	97.9	20.6	37.1	61.5	44.1	36.3 J E
Thallium	mg/kg	0.354 J Q	0.436 J Q	0.250 J Q	0.395 J Q	0.402 J Q	0.376 J Q	0.342
Tin	mg/kg	11.2 U B	11.7 U B	10.7 U B	11.1 U B	11.4 U B	11.4 U B	11.3 U B
Titanium	mg/kg	1190	1140	883	1070	1220	1040	1480
Antimony	mg/kg	0.193 J Z	0.230 UJ B, Q	0.221 UJ Q	0.343	0.228 UJ B, Q	0.224 UJ B, Q	0.0992 J Q, Z
Arsenic	mg/kg	4.45 J Q	7.42 J Q	4.91 J Q	9.06 J Q	7.53 J Q	7.71 J Q	5.68 J Q
Beryllium	mg/kg	0.590 J Q	0.958 J Q	0.591 J Q	1.08 J Q	0.913 J Q	1.02 J Q	0.743
Barium	mg/kg	126	164 J E, A	67.4 J E, A	191	157 J E, A	117 J E, A	122
Boron	mg/kg	20	12.7	5.16 J Z	24.7	12.3	8.09	8.53
Cadmium	mg/kg	0.352 J Q	0.434 J Q	0.0884 J Q, Z	0.457 J Q	0.442 J Q	0.234 J Q	0.314
Chromium	mg/kg	24.3 J Q, A	36.7 J Q	21.1 J Q	43.0 J Q, A	34.8 J Q	35.3 J Q	27.4 J A
Cobalt	mg/kg	8.52 J Q, A	13.3 J E, Q	9.00 J E, Q	13.7 J Q, A	13.5 J E, Q	9.37 J E, Q	10.7
Copper	mg/kg	16.0 J Q, A	14.2 J E, Q	9.41 J E, Q	25.9 J Q, A	17.6 J E, Q	11.3 J E, Q	22.8 J E, Q
Vanadium	mg/kg	53.7 J A	68.5	33.8	83.1 J A	64.2	59.2	52.4 J A
Zinc	mg/kg	78.8 J A	79	41.9	102 J A	76.8	73.3	69.7
Zirconium	mg/kg	1.91 J Z	5.17 J Z	2.55 J Z	3.43 J Z	5.25 J Z	3.94 J Z	4.02 J Z
Calcium	mg/kg	8300	60600 J E	3590 J E	6840	37800 J E	86800 J E	6930 J E
Phosphorus	mg/kg	521	439 J Q	132 J Q	443	419 J Q	235 J Q	523 J E
Selenium	mg/kg	0.102 J Z	0.0749 J Z	0.442 U	0.0924 J Z	0.0743 J Z	0.449 U	0.133 J Z
Chromium VI	mg/kg	1.1 U	0.24 J Z	0.65 J Z	2.5	1.2 U	0.24 J Z	0.95 J Z
Perchlorate (314.0)	ug/kg	34.2 U	35.2 U	33.4 U	33.9 U	35.6 U	34.3 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	5.6 U	5.6 U	--	--	--
Percent Moisture	%	12.2	14.7	10.3	11.5	15.8	12.6	13.4
pH	pH unit	8.21	8.2	8.34	8.07	8.2	8.18	7.28

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-057-SA5DN-SB-4.0-5.0	SL-057-SA5DN-SB-9.0-10.0	SL-058-SA5DN-SS-0.0-0.5	SL-058-SA5DN-SB-4.0-5.0	SL-058-SA5DN-SB-9.0-10.0	SL-059-SA5DN-SS-0.0-0.5	SL-059-SA5DN-SB-4.0-5.0
Sample Date		06/16/2011	06/16/2011	05/18/2011	06/16/2011	06/16/2011	05/18/2011	06/16/2011
SDG		DE182	DE182	DE154	DE182	DE182	DE154	DE182
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	5.5 J Q	3.1 J Q	2.4 J Q	3.7 J Q	6.3 J Q	3.0 J Q	5.1 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	28300	18700	22900	34200	26700	22500	32000
Iron	mg/kg	29500	22600	29000	35300	29500	27600	35400
Lead	mg/kg	6.99 J Q, A	4.95 J Q, A	26.1 J Q, A	9.35 J Q, A	7.07 J Q, A	15.2 J Q, A	9.75 J Q, A
Lithium	mg/kg	25.7	18.2	21.2	27.5	22.7	22	29
Magnesium	mg/kg	5330	3960	6640	8010	5750	6330	8280
Manganese	mg/kg	337 J E	158 J E	498	395 J E	216 J E	457	380 J E
Mercury	mg/kg	0.108 U B	0.105 U B	0.115 U B	0.109 U B	0.111 U B	0.106 U B	0.113 U B
Molybdenum	mg/kg	0.341	0.271	1.01 J Q	0.345	0.516	0.761 J Q	0.315
Nickel	mg/kg	19.0 J Q, A	9.98 J Q, A	32.1 J Q, A	20.3 J Q, A	13.7 J Q, A	28.0 J Q, A	22.3 J Q, A
Potassium	mg/kg	2360 J Q	1510 J Q	6660 J Q	4080 J Q	2610 J Q	4190 J Q	3860 J Q
Silver	mg/kg	0.0208 J Z	0.113 U	0.0739 J Q, Z	0.0509 J Z	0.0591 J Z	0.0550 J Q, Z	0.0320 J Z
Sodium	mg/kg	126	102 J Z	82.8 J Z	144	163	98.7 J Z	162
Strontium	mg/kg	27.5	18	28.8	41.9	28.7	39.6	39.8
Thallium	mg/kg	0.282	0.228	0.475 J Q	0.376	0.346	0.453 J Q	0.419
Tin	mg/kg	11.1 U B	10.9 U B	11.3 U B	11.8 U B	11.5 U B	11.0 U B	11.0 U B
Titanium	mg/kg	1030 J L	1260 J L	1220	1130 J L	1400 J L	1150	1280 J L
Antimony	mg/kg	0.113 J Q, E, Z	0.227 UJ Q, E	0.397	0.0935 J Q, E, Z	0.221 UJ Q, E	0.332	0.144 J Q, E, Z
Arsenic	mg/kg	5.99	4.65	8.55 J Q	7.09	6.68	8.40 J Q	7.25
Beryllium	mg/kg	0.83	0.59	1.18 J Q	0.963	0.884	1.05 J Q	1.01
Barium	mg/kg	103	66.1	136	154	117	136	168
Boron	mg/kg	5.55 U B	5.45 U	23	3.82 J Z	5.76 U B	21.2	3.57 J Z
Cadmium	mg/kg	0.145	0.0805 J Z	0.738 J Q	0.235	0.0932 J Z	0.663 J Q	0.318
Chromium	mg/kg	25.7 J A	20.9 J A	45.7 J Q, A	35.0 J A	30.3 J A	42.3 J Q, A	38.6 J A
Cobalt	mg/kg	9.81 J A	6.36 J A	16.4 J Q, A	10.3 J A	5.24 J A	15.1 J Q, A	12.3 J A
Copper	mg/kg	10.6 J Q, A	6.98 J Q, A	28.8 J Q, A	13.8 J Q, A	11.5 J Q, A	25.6 J Q, A	15.4 J Q, A
Vanadium	mg/kg	47.8 J A	34.8 J A	85.9 J A	59.0 J A	52.6 J A	85.1 J A	67.6 J A
Zinc	mg/kg	46.0 J E, A	38.3 J E, A	125 J A	72.6 J E, A	58.8 J E, A	101 J A	85.0 J E, A
Zirconium	mg/kg	4.60 J Z	3.10 J Z	3.52 J Z	6.27	4.20 J Z	2.96 J Z	6.12
Calcium	mg/kg	5230 J E	3750 J E	6610	10600 J E	4850 J E	15000	7430 J E
Phosphorus	mg/kg	175 J Q	76.8 J Q	513	278 J Q	211 J Q	404	310 J Q
Selenium	mg/kg	0.448 U	0.454 U	0.181 J Z	0.136 J Z	0.443 U	0.119 J Z	0.100 J Z
Chromium VI	mg/kg	0.43 J Z	0.39 J Z	1.1 J Z	0.51 J Z	0.32 J Z	1.1 U	1.2
Perchlorate (314.0)	ug/kg	34.6 U	34.0 U	34.8 U	35.3 U	34.9 U	34.0 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.8 U	--	--
Percent Moisture	%	13.4	11.8	13.9	14.9	14	11.8	13.4
pH	pH unit	8.02	8.07	7.7	8.11	8.08	8.22	7.84

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-059-SA5DN-SB-9.0-10.0	SL-060-SA5DN-SS-0.0-0.5	SL-060-SA5DN-SB-4.0-5.0	SL-060-SA5DN-SB-7.0-8.0	SL-061-SA5DN-SB-4.0-5.0	SL-061-SA5DN-SB-9.0-10.0	SL-062-SA5DN-SB-4.0-5.0
Sample Date		06/16/2011	05/25/2011	08/05/2011	08/05/2011	06/16/2011	06/16/2011	06/16/2011
SDG		DE182	DE163	DE218	DE218	DE182	DE182	DE182
Start Depth		9	0	4	7	4	9	4
End Depth		10	0.5	5	8	5	10	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	6.5 J Q	1.4 J Q	4.4 J Q	5.3 J Q	3.1 J Q	8.0 J Q	11.7 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	22800	26700	21800	21200	29000	25200	27700
Iron	mg/kg	25500	28800	23600	26700	33000	27300	31000
Lead	mg/kg	8.06 J Q, A	11.8 J Q	9.47 J Q, E	10.2 J Q, E	11.2 J Q, A	8.97 J Q, A	9.70 J Q, A
Lithium	mg/kg	21.6	22.3	21.6	21.3	25.3	25.3	27.2
Magnesium	mg/kg	6360	6870	5550	5710	7340	6220	7620
Manganese	mg/kg	267 J E	436	229	374	406 J E	204 J E	414 J E
Mercury	mg/kg	0.113 U	0.0150 J Q, E, Z	0.101 U	0.113 U	0.116 U B	0.109 U	0.110 U
Molybdenum	mg/kg	0.204	0.43	0.231 J Q	0.233 J Q	0.404	0.306	0.269
Nickel	mg/kg	17.7 J Q, A	17.5 J Q	21.2 J Q	20.9 J Q	22.3 J Q, A	21.6 J Q, A	23.3 J Q, A
Potassium	mg/kg	3010 J Q	5590	2830	2600	3950 J Q	3090 J Q	3280 J Q
Silver	mg/kg	0.0363 J Z	0.0564 J Z	0.0514 J Q, Z	0.0490 J Q, Z	0.0591 J Z	0.0319 J Z	0.0477 J Z
Sodium	mg/kg	166	128	94.5 J Z	147	246	298	726
Strontium	mg/kg	96.2	33.4 J E	44.5	125	40	39.5	42.2
Thallium	mg/kg	0.29	0.275	0.350 J Q	0.296 J Q	0.397	0.37	0.39
Tin	mg/kg	11.8 U B	10.5 U B	10.1 U B	11.3 U B	11.7 U B	11.3 U B	11.6 U B
Titanium	mg/kg	1280 J L	1360	1010	932	743 J L	1470 J L	1270 J L
Antimony	mg/kg	0.234 UJ Q, E	0.0788 J Q, Z	0.206 UJ B, Q	0.227 UJ B, Q	0.153 J Q, E, Z	0.136 J Q, E, Z	0.131 J Q, E, Z
Arsenic	mg/kg	5.06	4.76 J Q	5.96 J Q, E	7.89 J Q, E	6.34	6.66	8.19
Beryllium	mg/kg	0.613	0.598	0.859 J E, Q	0.830 J E, Q	0.94	0.865	1.04
Barium	mg/kg	113	134	122 J E	114 J E	179	132	161
Boron	mg/kg	4.78 J Z	5.66	10.2	10.9	5.84 U B	2.89 J Z	3.43 J Z
Cadmium	mg/kg	0.323	0.361	0.322 J Q	0.381 J Q	0.423	0.341	0.339
Chromium	mg/kg	27.9 J A	22.8 J A	32.2 J Q	30.3 J Q	34.6 J A	33.0 J A	37.3 J A
Cobalt	mg/kg	9.49 J A	9.07	8.81 J E, Q	10.8 J E, Q	15.2 J A	12.1 J A	12.7 J A
Copper	mg/kg	12.8 J Q, A	16.9 J E, Q	13.3	14.6	16.0 J Q, A	14.2 J Q, A	17.0 J Q, A
Vanadium	mg/kg	50.2 J A	47.2 J A	58.2 J Q	62.3 J Q	59.1 J A	62.5 J A	66.6 J A
Zinc	mg/kg	53.5 J E, A	88.5	67.4 J E	64.5 J E	74.8 J E, A	65.7 J E, A	77.4 J E, A
Zirconium	mg/kg	5.44 J Z	3.13 J Z	5.38	5.64 J Z	4.45 J Z	5.15 J Z	5.05 J Z
Calcium	mg/kg	62400 J E	5970 J E	23900 J E	92900 J E	6410 J E	27000 J E	9270 J E
Phosphorus	mg/kg	418 J Q	613 J E	330 J Q	513 J Q	308 J Q	314 J Q	392 J Q
Selenium	mg/kg	0.468 U	0.130 J Z	0.0789 J Q, Z	0.0825 J Q, Z	0.103 J Z	0.450 U	0.0670 J Z
Chromium VI	mg/kg	0.26 J Z	0.37 J Z	1.0 U	1.2 U	0.41 J Z	0.27 J Z	0.81 J Z
Perchlorate (314.0)	ug/kg	35.4 U	32.4 U	31.3 U	34.7 U	35.0 U	35.1 U	35.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	15.3	7.4	4.1	13.6	14.4	14.6	15.8
pH	pH unit	8.23	7.78	8.1	8.32	7.75	8.31	8.17

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-064-SA5DN-SS-0.0-0.5	SL-064-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SS-0.0-0.5	SL-065-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SB-7.0-8.0	SL-066-SA5DN-SS-0.0-0.5	SL-066-SA5DN-SB-4.0-5.0
Sample Date		05/18/2011	05/20/2011	05/18/2011	05/20/2011	05/20/2011	05/17/2011	05/19/2011
SDG		DE154	DE158	DE154	DE158	DE158	DE152	DE156
Start Depth		0	4	0	4	7	0	4
End Depth		0.5	5	0.5	5	8	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	6.9	1.2 J Q, Z	6.7	1.5 J Q, Z	1.2 J Q, Z	5.1	1.2 J Z
Fluoride	mg/kg	1.8 J Q	1.6 J Q	2.3 J Q	5.1 J Q	3.8 J Q	1.9	23.1 J Q
Cyanide	mg/kg	0.56 U	0.56 U	0.56 U	0.54 U	0.54 U	0.20 J Z	0.55 U
Aluminum	mg/kg	22500	21300	22600	25700	14300	26500	32900
Iron	mg/kg	99800	29100	32300	31200	22100	30400	35300
Lead	mg/kg	26.6 J Q, A	15.9 J A	17.7 J Q, A	13.6 J A	9.62 J A	20.4 J Q	16.6 J Q, E, A
Lithium	mg/kg	19.7	22.6	19.3	24.6	19.5	20.9	28.5
Magnesium	mg/kg	5320	6300	5640	6840	4090	6080	8620
Manganese	mg/kg	700	313	565	436	290	512	992
Mercury	mg/kg	2.61	0.0069 J Z	0.254	0.0069 J Z	0.0184 J Z	0.242	0.113 U
Molybdenum	mg/kg	0.748 J Q	0.581 J Q	0.715 J Q	0.489 J Q	0.472 J Q	0.813 J Q	0.527 J Q, E
Nickel	mg/kg	26.6 J Q, A	35.0 J Q, A	24.3 J Q, A	28.7 J Q, A	17.0 J Q, A	27.7 J E, Q	32.5 J Q, E, A
Potassium	mg/kg	4880 J Q	2710 J Q	5360 J Q	3150 J Q	2150 J Q	5390 J Q	4230 J Q
Silver	mg/kg	0.104 J Q, Z	0.0651 J Q, Z	0.0590 J Q, Z	0.0801 J Q, Z	0.0484 J Q, Z	0.0866 J Q, Z	0.0591 J Q, E, Z
Sodium	mg/kg	80.6 J Z	145	90.7 J Z	351	224	110	735
Strontium	mg/kg	29	34.7	32.5	45.1	18.5	34.4	50.6
Thallium	mg/kg	0.356 J Q	0.532 J Q	0.463 J Q	0.475 J Q	0.294 J Q	0.464 J Q	0.364
Tin	mg/kg	11.3 U B	11.5 U B	11.1 U B	11.0 U B	10.6 U B	10.7 U B	11.1 U B
Titanium	mg/kg	1130	1060	1150	1040	1050	1300	1260 J E
Antimony	mg/kg	0.854	0.381 J Q	0.445	0.374 J Q	0.199 J Q, Z	0.698 J E, Q	0.318 J Q, E
Arsenic	mg/kg	10.7 J Q	10.8 J Q	15.7 J Q	8.37 J Q	7.87 J Q	8.28 J Q	8.69 J Q, E
Beryllium	mg/kg	1.02 J Q	1.22 J Q	0.959 J Q	1.12 J Q	0.786 J Q	0.993 J E	1.22 J Q, E
Barium	mg/kg	191	165	175	161	104	182 J E	177 J E, A
Boron	mg/kg	13.3 J Z	14.1	23.2	15.7	10.7	21.2	5.56 U
Cadmium	mg/kg	0.870 J Q	0.409 J Q	0.735 J Q	0.311 J Q	0.171 J Q	0.762 J Q	0.426 J E, Q
Chromium	mg/kg	40.7 J Q, A	50.7 J Q, A	36.3 J Q, A	44.3 J Q, A	27.1 J Q, A	36.0 J Q, *#	45.7 J Q, E, A
Cobalt	mg/kg	13.7 J Q, A	16.4 J Q, A	11.8 J Q, A	12.8 J Q, A	9.14 J Q, A	15.6 J E, Q	18.4 J Q, E, A
Copper	mg/kg	42.5 J Q, A	17.0 J A	23.6 J Q, A	17.9 J A	11.1 J A	27.1 J E, Q	22.1 J Q, E, A
Vanadium	mg/kg	75.8 J A	94.5 J A	67.9 J A	81.6 J A	52.8 J A	66.0 J E, *#	83.9 J Q, E, A
Zinc	mg/kg	162 J A	106 J A	181 J A	88.2 J A	60.6 J A	152 J E	96.1 J E
Zirconium	mg/kg	5.66 U	2.00 J Z	2.60 J Z	2.62 J Z	1.77 J Z	2.43 J Z	7.72
Calcium	mg/kg	4800	8800	5130	20100	3430	4680	8050 J E
Phosphorus	mg/kg	402	406	367	347	329	322	289 J Q
Selenium	mg/kg	0.119 J Z	0.121 J Q, Z	0.163 J Z	0.0959 J Q, Z	0.0514 J Q, Z	0.244 J Z	0.175 J Z
Chromium VI	mg/kg	1.2 U	1.2 U	0.66 J Z	0.71 J Z	1.1 U	0.63 J Z	1.1 U
Perchlorate (314.0)	ug/kg	34.6 U	34.7 U	33.9 U	34.3 U	33.2 U	33.0 U	34.4 U
Perchlorate (6850)	ug/kg	--	5.8 U	--	--	5.5 U	5.5 U	--
Percent Moisture	%	13.4	13.6	11.5	12.5	9.7	9.2	12.7
pH	pH unit	7.08	8.05	7.21	8.37	8.74	6.17	8.34

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-066-SA5DN-SB-9.0-10.0	SL-067-SA5DN-SS-0.0-0.5	SL-067-SA5DN-SB-4.0-5.0	SL-067-SA5DN-SB-9.0-10.0	SL-068-SA5DN-SB-4.0-5.0	SL-068-SA5DN-SB-9.0-10.0	SL-069-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/17/2011	05/18/2011
SDG		DE156	DE152	DE156	DE156	DE153	DE153	DE155
Start Depth		9	0	4	9	4	9	4
End Depth		10	0.5	5	10	5	10	5
Chemical Name	Unit							
Nitrate	mg/kg	3	4.3	1.7	2	--	--	--
Fluoride	mg/kg	9.4 J Q	2.4	11.0 J Q	11.9 J Q	21.1	4.5	13.1
Cyanide	mg/kg	0.59 U	0.55 U	0.55 U	0.58 U	--	--	--
Aluminum	mg/kg	34200	26100	27400	26800	20700	25600	31600
Iron	mg/kg	32900	30500	28300	27500	23400	35200	30800
Lead	mg/kg	13.2 J Q, E, A	19.3 J Q	11.4 J Q, E, A	11.0 J Q, E, A	8.40 J E	6.80 J E	14.2 J Q, E, A
Lithium	mg/kg	34.4	21.6	27.8	26.1	21.3	27.7	28
Magnesium	mg/kg	8070	5790	5910	6700	4440	6750	6700
Manganese	mg/kg	278	492	349	226	430	508	265
Mercury	mg/kg	0.0199 J Z	1.86	0.106 U	0.0132 J Z	0.110 U	0.0040 J Z	0.110 U
Molybdenum	mg/kg	0.248 J Q, E	0.775 J Q	0.446 J Q, E	0.178 J Q, E	0.445	0.127	0.562 J Q, E
Nickel	mg/kg	28.9 J Q, E, A	24.1 J E, Q	23.1 J Q, E, A	25.0 J Q, E, A	14.7 J Q	17.9 J Q	32.2 J Q, E, A
Potassium	mg/kg	4110 J Q	4400 J Q	2920 J Q	3130 J Q	1870 J Q	2710 J Q	2870 J Q
Silver	mg/kg	0.0852 J Q, E, Z	0.0517 J Q, Z	0.0655 J Q, E, Z	0.0591 J Q, E, Z	0.0322 J Q, Z	0.0865 J Q, Z	0.0750 J Q, E, Z
Sodium	mg/kg	990	118	566	722	434	771	541
Strontium	mg/kg	51.4	39.3	42.7	64.5	37.9	48	54.9
Thallium	mg/kg	0.321	0.415 J Q	0.327	0.305	0.264 J Q	0.348 J Q	0.33
Tin	mg/kg	11.9 U B	10.9 U B	11.4 U B	11.3 U B	11.0 U B	11.2 U B	11.3 U B
Titanium	mg/kg	933 J E	1120	1520 J E	1110 J E	842	1120	1190 J E
Antimony	mg/kg	0.300 J Q, E	0.529 J E, Q	0.195 J Q, E, Z	0.188 J Q, E, Z	0.183 J Q, E, Z	0.229 UJ Q, E	0.350 J Q, E
Arsenic	mg/kg	4.32 J Q, E	9.81 J Q	7.74 J Q, E	5.00 J Q, E	7.81 J Q	3.40 J Q	8.66 J Q, E
Beryllium	mg/kg	1.08 J Q, E	0.992 J E	1.03 J Q, E	1.05 J Q, E	0.954 J Q	0.901 J Q	1.37 J Q, E
Barium	mg/kg	715 J E, A	170 J E	159 J E, A	128 J E, A	107	137	136 J E, A
Boron	mg/kg	5.97 U	20.8	5.69 U	5.67 U	16	21.3	5.64 U
Cadmium	mg/kg	0.378 J E, Q	0.607 J Q	0.235 J E, Q	0.235 J E, Q	0.145 J Q	0.0648 J Q, Z	0.232 J E, Q
Chromium	mg/kg	55.1 J Q, E, A	33.3 J Q, *#	38.8 J Q, E, A	44.9 J Q, E, A	23.1 J Q	30.2 J Q	45.5 J Q, E, A
Cobalt	mg/kg	9.13 J Q, E, A	11.2 J E, Q	10.4 J Q, E, A	7.15 J Q, E, A	6.22 J Q	5.30 J Q	13.0 J Q, E, A
Copper	mg/kg	23.4 J Q, E, A	23.4 J E, Q	16.4 J Q, E, A	20.0 J Q, E, A	10.9 J Q	16.4 J Q	19.6 J Q, E, A
Vanadium	mg/kg	66.6 J Q, E, A	61.8 J E, *#	74.0 J Q, E, A	61.9 J Q, E, A	47.0 J Q	34.3 J Q	81.8 J Q, E, A
Zinc	mg/kg	96.8 J E	130 J E	68.1 J E	85.5 J E	44.6	60.4	84.8 J E
Zirconium	mg/kg	5.85 J Z	2.71 J Z	6.67	6.18	2.54 J Z	2.48 J Z	6.18
Calcium	mg/kg	12700 J E	5060	7900 J E	26000 J E	8960 J E	6100 J E	7160 J E
Phosphorus	mg/kg	245 J Q	289	229 J Q	270 J Q	175 J Q, E	257 J Q, E	154 J Q
Selenium	mg/kg	0.459 U	0.218 J Z	0.0903 J Z	0.458 U	0.0829 J Z	0.0550 J Z	0.152 J Z
Chromium VI	mg/kg	1.2 U	0.61 J Z	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U
Perchlorate (314.0)	ug/kg	35.8 U	33.0 U	34.1 U	35.0 U	33.6 U	34.6 U	34.9 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	5.8 U	--
Percent Moisture	%	16.2	9.2	12.1	14.4	10.8	13.4	14
pH	pH unit	8.48	6.56	8.46	8.57	7.74	7.39	7.46

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-069-SA5DN-SB-9.0-10.0	SL-070-SA5DN-SB-4.0-5.0	SL-070-SA5DN-SB-9.0-10.0	SL-071-SA5DN-SS-0.0-0.5	SL-071-SA5DN-SB-4.0-5.0	SL-071-SA5DN-SB-9.0-10.0	SL-072-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	05/18/2011	05/18/2011	05/27/2011	08/10/2011	08/10/2011	05/17/2011
SDG		DE155	DE155	DE155	DE167	DE221	DE221	DE152
Start Depth		9	4	9	0	4	9	0
End Depth		10	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.3	16.9	9.9	2	10.9 J Q	6.5 J Q	1.9
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	26300	30200	20300	23900	30900	21100	19600
Iron	mg/kg	29100	29800	25900	25800	28800	22700	26200
Lead	mg/kg	15.7 J Q, E, A	9.40 J Q, E, A	11.1 J Q, E, A	11.1 J Q	8.42	6.9	12.8 J Q
Lithium	mg/kg	28.5	32.8	20.3	20.3	27.9	21.2	19.7
Magnesium	mg/kg	6240	6310	5390	5930	5760	3680	5740
Manganese	mg/kg	250	1000	131	347 J *#	366	187	335
Mercury	mg/kg	0.113 U	0.0162 J Z	0.0141 J Z	0.0036 J E, Z	0.0091 J Z	0.109 U	0.112 UJ FD
Molybdenum	mg/kg	0.553 J Q, E	0.411 J Q, E	0.757 J Q, E	0.399	0.581	0.324	0.655 J FD, Q
Nickel	mg/kg	30.3 J Q, E, A	19.9 J Q, E, A	27.5 J Q, E, A	16	22.7	11.9	19.8 J E, Q
Potassium	mg/kg	2690 J Q	3090 J Q	2230 J Q	4480	2610	1750	4330 J Q
Silver	mg/kg	0.0562 J Q, E, Z	0.0439 J Q, E, Z	0.0502 J Q, E, Z	0.0305 J Z	0.0714 J Z	0.0549 J Z	0.0349 J Q, Z
Sodium	mg/kg	609	349	720	132	161	183	124
Strontium	mg/kg	45.2	33.9	54.8	68.4	48.6	33.8	61.2
Thallium	mg/kg	0.286	0.325	0.288	0.283	0.314	0.204	0.297 J Q
Tin	mg/kg	11.2 U B	11.3 U B	11.3 U B	11.0 U B	11.4 U B	11.3 U B	11.1 U B
Titanium	mg/kg	1220 J E	1600 J E	711 J E	1260	1350	1010	1050
Antimony	mg/kg	0.279 J Q, E	0.242 J Q, E	0.184 J Q, E, Z	0.136 J Q, Z	0.109 J Q, Z	0.110 J Q, Z	0.900 J FD, E, Q
Arsenic	mg/kg	9.46 J Q, E	8.02 J Q, E	6.37 J Q, E	5.27	5.02	5.97	5.98 J Q
Beryllium	mg/kg	1.08 J Q, E	0.976 J Q, E	1.22 J Q, E	0.712 J Q	0.96	0.685	0.727 J E
Barium	mg/kg	152 J E, A	136 J E, A	166 J E, A	111	201	58.4	125 J E
Boron	mg/kg	5.60 U	5.65 U	5.65 U	5.49 U	6.98	5.45 J Z	20.2
Cadmium	mg/kg	0.195 J E, Q	0.172 J E, Q	0.175 J E, Q	0.288	0.193	0.0623 J Z	0.307 J Q
Chromium	mg/kg	40.9 J Q, E, A	29.6 J Q, E, A	39.8 J Q, E, A	24.6	31.8	21.8	28.1 J Q, *#
Cobalt	mg/kg	13.6 J Q, E, A	10.4 J Q, E, A	8.95 J Q, E, A	8.34	11.7	7.05	10.1 J E, Q
Copper	mg/kg	19.6 J Q, E, A	13.2 J Q, E, A	19.1 J Q, E, A	13.7	14.1	9.08	17.8 J E, Q
Vanadium	mg/kg	81.8 J Q, E, A	59.0 J Q, E, A	61.9 J Q, E, A	48.2	61.1 J Q	43.5 J Q	57.1 J E, *#
Zinc	mg/kg	75.3 J E	58.7 J E	74.5 J E	103	73.3	38.5	153 J E
Zirconium	mg/kg	6.06	7.06	3.75 J Z	3.11 J Z	3.77 J Z	5.64 U B	2.74 J Z
Calcium	mg/kg	5570 J E	4650 J E	8990 J E	32700	5080	4040	28100
Phosphorus	mg/kg	260 J Q	260 J Q	239 J Q	495	255	196	634
Selenium	mg/kg	0.0759 J Z	0.0695 J Z	0.444 U	0.177 J Z	0.456 U	0.451 U	0.209 J Z
Chromium VI	mg/kg	1.1 U	1.2 U	0.69 J Z	0.77 J Z	1.2 U	1.0 J Z	0.70 J Z
Perchlorate (314.0)	ug/kg	34.3 U	34.6 U	34.6 U	33.0 U	34.9 U	34.5 U	33.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.8 U	--	--
Percent Moisture	%	12.5	13.2	13.3	9	14	13.1	10.5
pH	pH unit	7.48	7.8	7.89	7.24	8.01	8.29	7.96

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-072-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-4.5	SL-073-SA5DN-SB-9.0-10.0	SL-074-SA5DN-SS-0.0-0.5	SL-074-SA5DN-SB-4.0-5.0	SL-074-SA5DN-SB-9.0-10.0
Sample Date		08/10/2011	05/17/2011	06/20/2011	05/17/2011	05/17/2011	05/18/2011	05/18/2011
SDG		DE221	DE153	DE184	DE153	DE152	DE155	DE155
Start Depth		4	4	4.5	9	0	4	9
End Depth		5	5	4.5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.9 J Q	18.6	--	4.2	3.1	20.6	12.9
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	26500	24600	--	18300	24800	33600	23300
Iron	mg/kg	27000	25000	--	22000	28900	33300	25300
Lead	mg/kg	9.61	6.61 J E	--	7.02 J E	11.8 J Q	12.7 J Q, E, A	9.51 J Q, E, A
Lithium	mg/kg	28.2	23.5	--	25.3	20.7	31.4	24.2
Magnesium	mg/kg	5740	5110	--	4430	5690	7410	6480
Manganese	mg/kg	195	213	--	212	793	347	252
Mercury	mg/kg	0.0091 J Z	0.112 U	--	0.110 U	4.75	0.0180 J Z	0.0153 J Z
Molybdenum	mg/kg	0.248	0.308	--	0.296	0.647 J Q	0.412 J Q, E	0.276 J Q, E
Nickel	mg/kg	16.1	12.2 J Q	--	16.5 J Q	20.6 J E, Q	27.6 J Q, E, A	21.9 J Q, E, A
Potassium	mg/kg	2660	2020 J Q	--	2430 J Q	4570 J Q	3070 J Q	3620 J Q
Silver	mg/kg	0.0708 J Z	0.0546 J Q, Z	--	0.0203 J Q, Z	0.0526 J Q, Z	0.0721 J Q, E, Z	0.0769 J Q, E, Z
Sodium	mg/kg	114	455	--	374	126	654	579
Strontium	mg/kg	59.9	37.2	--	27.5	35.2	70.3	126
Thallium	mg/kg	0.247	0.237 J Q	--	0.249 J Q	0.364 J Q	0.303	0.295
Tin	mg/kg	11.4 U B	11.2 U B	--	10.9 U B	11.0 U B	10.9 U B	11.7 U B
Titanium	mg/kg	1170	1080	--	1040	1280	1180 J E	1360 J E
Antimony	mg/kg	0.238 UJ Q	0.107 J Q, E, Z	--	0.222 UJ Q, E	0.375 J E, Q	0.254 J Q, E	0.197 J Q, E, Z
Arsenic	mg/kg	5.17	5.53 J Q	--	6.08 J Q	5.89 J Q	7.44 J Q, E	5.71 J Q, E
Beryllium	mg/kg	0.829	0.710 J Q	--	0.636 J Q	0.866 J E	1.18 J Q, E	0.914 J Q, E
Barium	mg/kg	658	82.8	--	89.9	150 J E	146 J E, A	133 J E, A
Boron	mg/kg	7.27	16	--	12.7	20.4	5.46 U	1.30 J Z
Cadmium	mg/kg	0.288	0.0817 J Q, Z	--	0.156 J Q	0.549 J Q	0.211 J E, Q	0.608 J E, Q
Chromium	mg/kg	30.3	20.8 J Q	--	17.7 J Q	29.0 J Q, *#	42.2 J Q, E, A	38.3 J Q, E, A
Cobalt	mg/kg	9.94	6.29 J Q	--	8.50 J Q	10.4 J E, Q	12.2 J Q, E, A	8.60 J Q, E, A
Copper	mg/kg	13.6	9.35 J Q	--	12.8 J Q	17.7 J E, Q	19.3 J Q, E, A	17.9 J Q, E, A
Vanadium	mg/kg	54.9 J Q	41.6 J Q	--	36.0 J Q	54.4 J E, *#	67.7 J Q, E, A	62.0 J Q, E, A
Zinc	mg/kg	59.7	40.4	--	47	91.8 J E	79.5 J E	72.8 J E
Zirconium	mg/kg	4.03 J Z	2.39 J Z	--	1.21 J Z	1.19 J Z	6.47	6.75
Calcium	mg/kg	24800	4770 J E	--	3360 J E	4820	22300 J E	78700 J E
Phosphorus	mg/kg	267	131 J Q, E	--	227 J Q, E	346	165 J Q	445 J Q
Selenium	mg/kg	0.476 U	0.435 U	--	0.444 U	0.203 J Z	0.184 J Z	0.0825 J Z
Chromium VI	mg/kg	1.2 U	1.1 U	--	1.1 U	0.48 J Z	1.1 U	1.2 U
Perchlorate (314.0)	ug/kg	35.7 U	33.9 U	--	34.0 U	33.1 U	34.1 U	35.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	2.7 J Z
Percent Moisture	%	15.9	11.6	12.1	11.7	9.3	12	14.2
pH	pH unit	8.12	8.06	--	7.95	6.78	8.38	8.72

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-075-SA5DN-SS-0.0-0.5	SL-075-SA5DN-SB-4.0-5.0	SL-075-SA5DN-SB-9.0-10.0	SL-076-SA5DN-SS-0.0-0.5	SL-076-SA5DN-SB-4.0-5.0	SL-076-SA5DN-SB-9.0-10.0	SL-077-SA5DN-SB-4.0-5.0
Sample Date		05/17/2011	05/23/2011	05/23/2011	05/17/2011	05/18/2011	05/18/2011	06/27/2011
SDG		DE152	DE159	DE159	DE152	DE155	DE155	DE189
Start Depth		0	4	9	0	4	9	4
End Depth		0.5	5	10	0.5	5	10	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.9	13.3	6.3	4.1	18.2	10.3	6.5 J E
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	25800	30900	16500	23900	27900	22600	38400
Iron	mg/kg	29600	31600	19700	33600	29700	25500	29800
Lead	mg/kg	9.36 J Q	13.3	8.38	17.0 J Q	7.87 J Q, E, A	12.2 J Q, E, A	12.9 J Q, E
Lithium	mg/kg	23.4	35.2	22.4	21.9	31.9	25.6	32.4
Magnesium	mg/kg	6000	6880	4760	5760	6470	6170	7920
Manganese	mg/kg	754	178	301	363	269	289	218 J E, Q
Mercury	mg/kg	0.102 J Z	0.111 U	0.112 U	3.34	0.0068 J FD, Z	0.0129 J Z	0.0126 J Z
Molybdenum	mg/kg	0.402 J Q	0.224 J E, Q	0.782 J E, Q	0.796 J Q	0.149 J Q, E	0.419 J Q, E	0.526 J Q
Nickel	mg/kg	19.9 J E, Q	28.7 J E, Q	24.4 J E, Q	25.6 J E, Q	16.8 J Q, E, A	27.3 J Q, E, A	27.2 J Q
Potassium	mg/kg	3540 J Q	3230 J Q	2500 J Q	4070 J Q	2720 J Q	3340 J Q	4130 J Q
Silver	mg/kg	0.0527 J Q, Z	0.0595 J Q, Z	0.0669 J Q, Z	0.0797 J Q, Z	0.0403 J Q, E, Z	0.0618 J Q, E, Z	0.0611 J Q, Z
Sodium	mg/kg	158	714	393	134	738	710	399
Strontium	mg/kg	44.7	57.5	78.8	32.7	57	99.6	48.1
Thallium	mg/kg	0.334 J Q	0.477 J Q	0.379 J Q	0.396 J Q	0.293	0.257	0.493 J Q, E
Tin	mg/kg	12.0 U B	11.1 U B, Z	11.3 U B, Z	10.5 U B	10.6 U B	11.3 U B	11.4 U B
Titanium	mg/kg	1320	1290	1230	1310	715 J E	1260 J E	1370
Antimony	mg/kg	0.288 J E, Q	0.204 J Q, Z	0.194 J Q, Z	0.548 J E, Q	0.134 J FD, Q, E, Z	0.257 J Q, E	0.363 J Q, E
Arsenic	mg/kg	5.49 J Q	7.08 J E, Q	7.16 J E, Q	9.67 J Q	4.54 J Q, E	9.81 J Q, E	8.51 J Q
Beryllium	mg/kg	0.829 J E	1.00 J E	0.645 J E	1.05 J E	0.785 J Q, E	0.966 J Q, E	1.18 J Q
Barium	mg/kg	149 J E	170 J E	125 J E	143 J E	120 J E, A	126 J E, A	177
Boron	mg/kg	19.8	5.55 U	5.64 U	20.9	5.31 U	5.67 U	13.8
Cadmium	mg/kg	0.217 J Q	0.490 J E, Q	0.484 J E, Q	0.706 J Q	0.0913 J E, Q, Z	0.424 J E, Q	0.303 J Q
Chromium	mg/kg	28.5 J Q, *#	26.8 J *#	20.7 J *#	36.3 J Q, *#	27.0 J Q, E, A	41.4 J Q, E, A	42.7 J Q
Cobalt	mg/kg	8.85 J E, Q	8.52 J E, *#	8.19 J E, *#	13.8 J E, Q	6.37 J FD, Q, E, A	12.6 J Q, E, A	11.6 J Q
Copper	mg/kg	14.4 J E, Q	16.8 J E, Q	13.2 J E, Q	22.9 J E, Q	12.5 J Q, E, A	19.7 J Q, E, A	18.8 J Q
Vanadium	mg/kg	52.8 J E, *#	77.2 J E	59.4 J E	71.1 J E, *#	38.8 J Q, E, A	80.0 J Q, E, A	77.7
Zinc	mg/kg	61.8 J E	76.6 J *#	62.8 J *#	129 J E	51.7 J E	90.6 J E	92.7
Zirconium	mg/kg	1.96 J Z	4.75 J Z	4.70 J Z	2.18 J Z	3.85 J Z	6.36	6.1
Calcium	mg/kg	5780	10300 J E	42600 J E	4750	5820 J FD, E	66100 J E	5930
Phosphorus	mg/kg	363	226 J Q	387 J Q	323	155 J Q	427 J Q	238 J Q
Selenium	mg/kg	0.137 J Z	0.453 U	0.0459 J Z	0.206 J Z	0.0846 J Z	0.0540 J Z	0.0759 J Q, L, Z
Chromium VI	mg/kg	1.2 U	0.32 J Z	0.36 J Z	0.52 J Z	1.1 U	1.2 U	1.2 U
Perchlorate (314.0)	ug/kg	36.5 U	34.6 U	34.5 U	32.9 U	33.1 U	34.7 U	35.6 U
Perchlorate (6850)	ug/kg	--	3.9 J Z	5.8 U	--	--	--	--
Percent Moisture	%	17.7	13.4	13.1	8.8	9.5	13.6	15.8
pH	pH unit	7.75	8.54	8.91	7.23	8.49	8.65	7.78

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-077-SA5DN-SB-9.0-10.0	SL-078-SA5DN-SB-4.0-5.0	SL-078-SA5DN-SB-9.0-10.0	SL-079-SA5DN-SS-0.0-0.5	SL-079-SA5DN-SB-4.0-5.0	SL-079-SA5DN-SB-9.0-10.0	SL-080-SA5DN-SS-0.0-0.5
Sample Date		06/27/2011	06/27/2011	06/27/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011
SDG		DE189	DE189	DE189	DE152	DE156	DE156	DE152
Start Depth		9	4	9	0	4	9	0
End Depth		10	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	5.3 J E	10.9 J E	3.7 J E	3.9	29.6 J Q	9.6 J Q	3.5
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	31200	32900	26400	24500	29300	27500	23300
Iron	mg/kg	30900	37500	30200	28700	31900	32300	26700
Lead	mg/kg	12.6 J Q, E	16.4 J Q, E	9.56 J Q, E	16.0 J Q	17.8 J Q, E, A	11.7 J Q, E, A	13.6 J Q
Lithium	mg/kg	30.6	31	27.5	20.9	28.1	30.2	19.4
Magnesium	mg/kg	6970	7850	5980	5610	7550	7120	5280
Manganese	mg/kg	198 J E, Q	402 J E, Q	173 J E, Q	412	368	368	478
Mercury	mg/kg	0.112 U	0.0119 J Z	0.0251 J Z	35.4	0.0186 J Z	0.0130 J Z	4.95
Molybdenum	mg/kg	0.520 J Q	0.477 J Q	0.322 J Q	0.747 J Q	0.529 J Q, E	0.466 J Q, E	0.633 J Q
Nickel	mg/kg	28.8 J Q	31.1 J Q	17.7 J Q	24.3 J E, Q	32.5 J Q, E, A	26.2 J Q, E, A	23.6 J E, Q
Potassium	mg/kg	3240 J Q	3480 J Q	2770 J Q	4470 J Q	3330 J Q	3570 J Q	4590 J Q
Silver	mg/kg	0.0566 J Q, Z	0.0428 J Q, Z	0.0402 J Q, Z	0.0972 J Q, Z	0.0693 J Q, E, Z	0.0979 J Q, E, Z	0.0782 J Q, Z
Sodium	mg/kg	605	538	332	109	697	604	99.5 J Z
Strontium	mg/kg	44.2	41.6	33.3	34.4	44.3	46.1	32.2
Thallium	mg/kg	0.353 J Q, E	0.468 J Q, E	0.349 J Q, E	0.409 J Q	0.313	0.31	0.379 J Q
Tin	mg/kg	11.5 U B	11.2 U B	11.3 U B	10.7 U B	11.0 U B	11.8 U B	11.0 U B
Titanium	mg/kg	1060	1240	1040	1300	1310 J E	1410 J E	1150
Antimony	mg/kg	0.281 J Q, E	0.326 J Q, E	0.163 J Q, E, Z	0.483 J E, Q	0.295 J Q, E	0.223 J Q, E, Z	0.456 J E, Q
Arsenic	mg/kg	12.4 J Q	12.1 J Q	7.69 J Q	8.08 J Q	9.14 J Q, E	7.61 J Q, E	7.37 J Q
Beryllium	mg/kg	1.07 J Q	1.26 J Q	0.922 J Q	0.928 J E	1.22 J Q, E	1.03 J Q, E	0.948 J E
Barium	mg/kg	132	187	114	172 J E	140 J E, A	160 J E, A	169 J E
Boron	mg/kg	12.1	15.3	9.72	20	1.47 J Z	5.88 U	19.3
Cadmium	mg/kg	0.407 J Q	0.374 J Q	0.340 J Q	0.748 J Q	0.471 J E, Q	0.304 J E, Q	0.640 J Q
Chromium	mg/kg	35.1 J Q	44.7 J Q	28.5 J Q	32.7 J Q, *#	46.1 J Q, E, A	42.1 J Q, E, A	31.6 J Q, *#
Cobalt	mg/kg	15.9 J Q	15.9 J Q	8.87 J Q	11.9 J E, Q	20.9 J Q, E, A	13.8 J Q, E, A	11.4 J E, Q
Copper	mg/kg	20.2 J Q	23.0 J Q	15.6 J Q	22.4 J E, Q	20.8 J Q, E, A	18.6 J Q, E, A	19.6 J E, Q
Vanadium	mg/kg	77.3	86.5	53.6	62.2 J E, *#	84.2 J Q, E, A	73.8 J Q, E, A	58.7 J E, *#
Zinc	mg/kg	78.9	95.2	67.8	140 J E	90.1 J E	83.7 J E	121 J E
Zirconium	mg/kg	4.53 J Z	5.57 J Z	4.13 J Z	2.75 J Z	7.78	7.63	5.50 U
Calcium	mg/kg	6310	6170	7810	5120	7440 J E	17100 J E	4890
Phosphorus	mg/kg	330 J Q	334 J Q	332 J Q	420	297 J Q	373 J Q	396
Selenium	mg/kg	0.469 U	0.0838 J Q, L, Z	0.443 U	0.192 J Z	0.193 J Z	0.0637 J Z	0.200 J Z
Chromium VI	mg/kg	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	0.60 J Z
Perchlorate (314.0)	ug/kg	35.9 U	34.8 U	34.5 U	33.1 U	33.7 U	36.4 U	33.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	16.4	13.9	13.1	9.4	10.9	17.5	10
pH	pH unit	8.07	8.1	8.34	7.31	8.35	8.59	7.18

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-080-SA5DN-SB-4.0-5.0	SL-080-SA5DN-SB-8.0-9.0	SL-081-SA5DN-SS-0.0-0.5	SL-081-SA5DN-SB-4.0-5.0	SL-081-SA5DN-SB-9.0-10.0	SL-082-SA5DN-SS-0.0-0.5	SL-082-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	05/19/2011	05/17/2011	05/23/2011	05/23/2011	05/17/2011	05/19/2011
SDG		DE156	DE156	DE152	DE159	DE159	DE152	DE156
Start Depth		4	8	0	4	9	0	4
End Depth		5	9	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	27.4 J Q	7.4 J Q	2.8 J Q	20.8	4.9	3.4 J Q	18.0 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	33600	20700	21300	28900	19100	24100	26500
Iron	mg/kg	34900	26400	27400	29500	21500	30900	26500
Lead	mg/kg	13.4 J Q, E, A	7.77 J Q, E, A	14.3 J Q	14.7	7.15	22.9 J Q	13.2 J Q, E, A
Lithium	mg/kg	30.7	23.3	19.6	28.1	25.8	21	26.3
Magnesium	mg/kg	8140	4900	5580	6630	4490	5690	5960
Manganese	mg/kg	348	247	449	407	284	469	226
Mercury	mg/kg	0.0210 J Z	0.108 U	1.31	0.106 U	0.0130 J Z	1.69	0.0102 J Z
Molybdenum	mg/kg	0.462 J Q, E	0.268 J Q, E	0.651 J Q	0.579 J E, Q	0.418 J E, Q	0.776 J Q	0.505 J Q, E
Nickel	mg/kg	27.4 J Q, E, A	17.8 J Q, E, A	20.0 J E, Q	29.5 J E, Q	17.7 J E, Q	27.3 J E, Q	28.6 J Q, E, A
Potassium	mg/kg	3840 J Q	2220 J Q	3980 J Q	3490 J Q	2320 J Q	4520 J Q	2610 J Q
Silver	mg/kg	0.0542 J Q, E, Z	0.0450 J Q, E, Z	0.0670 J Q, Z	0.0729 J Q, Z	0.0560 J Q, Z	0.0727 J Q, Z	0.0705 J Q, E, Z
Sodium	mg/kg	556	499	136	575	341	104 J Z	618
Strontium	mg/kg	47.1	30	32	39.1	23	33.1	50.3
Thallium	mg/kg	0.348	0.256	0.360 J Q	0.478 J Q	0.337 J Q	0.398 J Q	0.283
Tin	mg/kg	10.9 U B	10.7 U B	10.4 U B	11.0 U B, Z	10.5 U B, Z	10.9 U B	10.8 U B
Titanium	mg/kg	1510 J E	1210 J E	1310	1710	1230	1220	747 J E
Antimony	mg/kg	0.276 J Q, E	0.207 J Q, E, Z	0.412 J E, Q	0.331 J Q	0.179 J Q, Z	0.726 J E, Q	0.268 J Q, E
Arsenic	mg/kg	7.98 J Q, E	6.17 J Q, E	6.49 J Q	8.31 J E, Q	6.69 J E, Q	9.98 J Q	7.00 J Q, E
Beryllium	mg/kg	1.13 J Q, E	1.06 J Q, E	0.802 J E	1.04 J E	0.735 J E	1.11 J E	1.13 J Q, E
Barium	mg/kg	182 J E, A	113 J E, A	160 J E	217 J E	113 J E	178 J E	159 J E, A
Boron	mg/kg	5.46 U	5.36 U	18.2	1.00 J Z	5.25 U	20.3	5.40 U
Cadmium	mg/kg	0.325 J E, Q	0.137 J E, Q	0.514 J Q	0.448 J E, Q	0.162 J E, Q	0.766 J Q	0.270 J E, Q
Chromium	mg/kg	39.6 J Q, E, A	31.3 J Q, E, A	28.1 J Q, *#	28.3 J *#	18.7 J *#	37.2 J Q, *#	38.4 J Q, E, A
Cobalt	mg/kg	16.7 J Q, E, A	7.00 J Q, E, A	9.85 J E, Q	14.7 J E, *#	6.21 J E, *#	17.0 J E, Q	12.7 J Q, E, A
Copper	mg/kg	20.5 J Q, E, A	15.7 J Q, E, A	19.4 J E, Q	18.2 J E, Q	10.8 J E, Q	24.0 J E, Q	16.1 J Q, E, A
Vanadium	mg/kg	72.3 J Q, E, A	52.4 J Q, E, A	55.4 J E, *#	93.1 J E	55.1 J E	70.9 J E, *#	70.6 J Q, E, A
Zinc	mg/kg	77.2 J E	61.1 J E	113 J E	86.3 J *#	63.5 J *#	146 J E	71.2 J E
Zirconium	mg/kg	8.5	5.01 J Z	1.76 J Z	6.4	3.95 J Z	2.60 J Z	4.07 J Z
Calcium	mg/kg	10200 J E	14400 J E	4570	7380 J E	7150 J E	6030	9010 J E
Phosphorus	mg/kg	243 J Q	320 J Q	415	313 J Q	291 J Q	336	125 J Q
Selenium	mg/kg	0.103 J Z	0.433 U	0.157 J Z	0.438 U	0.429 U	0.223 J Z	0.133 J Z
Chromium VI	mg/kg	1.1 U	1.1 U	3.3	1.4	1.1 U	0.61 J Z	1.1 U
Perchlorate (314.0)	ug/kg	33.4 U	33.1 U	32.4 U	33.1 U	32.8 U	33.1 U	32.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.3	9.5	7.3	9.5	8.5	9.5	8.4
pH	pH unit	8.61	8.66	7.05	8.13	8.6	7.6	8.35

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-083-SA5DN-SS-0.0-0.5	SL-083-SA5DN-SB-4.0-5.0	SL-084-SA5DN-SS-0.0-0.5	SL-084-SA5DN-SB-4.0-5.0	SL-085-SA5DN-SB-2.5-3.5	SL-086-SA5DN-SS-0.0-0.5	SL-086-SA5DN-SB-4.0-5.0
Sample Date		05/17/2011	08/08/2011	05/17/2011	05/23/2011	06/27/2011	05/18/2011	05/20/2011
SDG		DE152	DE219	DE152	DE159	DE189	DE154	DE158
Start Depth		0	4	0	4	2.5	0	4
End Depth		0.5	5	0.5	5	3.5	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	2.8	0.96 J Q, Z
Fluoride	mg/kg	3.0 J Q	13.8 J E, Q	2.4 J Q	5.9	4.6 J E	2.6 J Q	5.0 J Q
Cyanide	mg/kg	--	--	--	--	--	0.58 U	0.56 U
Aluminum	mg/kg	26000	24700	24300	23100	31500	24600	20600
Iron	mg/kg	31500	29400	28600	24000	29600	28000	27800
Lead	mg/kg	13.0 J Q	12.3 J Q	13.9 J Q	10.6	9.06 J Q, E	13.4 J Q, A	10.3 J A
Lithium	mg/kg	22.9	24.8	21.2	23.5	30.7	20.1	21.6
Magnesium	mg/kg	5910	6500	5940	4850	5420	5870	6530
Manganese	mg/kg	588	406 J Q, E	376	211	281 J E, Q	491	283
Mercury	mg/kg	2.34	0.113 U	1.53	0.0663 J Z	0.0133 J Z	0.123	0.113 U
Molybdenum	mg/kg	0.567 J Q	0.423	0.514 J Q	0.605 J E, Q	0.681 J Q	0.693 J Q	0.331 J Q
Nickel	mg/kg	19.3 J E, Q	26.6 J Q, *#	17.4 J E, Q	20.0 J E, Q	19.3 J Q	25.6 J Q, A	20.9 J Q, A
Potassium	mg/kg	4260 J Q	3010 J Q	4290 J Q	2100 J Q	2720 J Q	4560 J Q	2960 J Q
Silver	mg/kg	0.0720 J Q, Z	0.0528 J Z	0.0570 J Q, Z	0.0345 J Q, Z	0.0782 J Q, Z	0.0490 J Q, Z	0.0401 J Q, Z
Sodium	mg/kg	103 J Z	413	138	261	316	108 J Z	279
Strontium	mg/kg	32.5	77.8	32.1	44.6	31.8	32.4	45.4
Thallium	mg/kg	0.325 J Q	0.394	0.311 J Q	0.405 J Q	0.324 J Q, E	0.440 J Q	0.367 J Q
Tin	mg/kg	10.9 U B	11.1 U B	11.1 U B	10.6 U B, Z	11.7 U B	11.3 U B	11.1 U B
Titanium	mg/kg	1230	1110	1320	1310	974	1140	975
Antimony	mg/kg	0.423 J E, Q	0.223 UJ B, Q	0.445 J E, Q	0.259 J Q	0.318 J Q, E	0.349	0.220 J Q, Z
Arsenic	mg/kg	7.90 J Q	8.55 J Q	5.85 J Q	9.95 J E, Q	8.91 J Q	7.96 J Q	7.80 J Q
Beryllium	mg/kg	0.745 J E	0.97	0.727 J E	0.867 J E	0.982 J Q	1.09 J Q	0.803 J Q
Barium	mg/kg	129 J E	168	140 J E	167 J E	118	194	140
Boron	mg/kg	21.3	7.66	19.3	5.32 U	9.42	21.1	14.4
Cadmium	mg/kg	0.498 J Q	0.392	0.559 J Q	0.153 J E, Q	0.137 J Q	0.503 J Q	0.320 J Q
Chromium	mg/kg	26.6 J Q, *#	39.0 J E, *#	25.4 J Q, *#	20.7 J *#	30.6 J Q	40.1 J Q, A	34.3 J Q, A
Cobalt	mg/kg	9.82 J E, Q	13.7 J E	8.76 J E, Q	4.97 J E, *#	8.06 J Q	14.9 J Q, A	8.97 J Q, A
Copper	mg/kg	18.0 J E, Q	20.1 J E	16.9 J E, Q	14.0 J E, Q	15.0 J Q	22.3 J Q, A	12.6 J A
Vanadium	mg/kg	51.2 J E, *#	73.5 J E, *#	51.1 J E, *#	77.3 J E	57.1	75.8 J A	67.5 J A
Zinc	mg/kg	102 J E	82.8 J E, Q	128 J E	70.2 J *#	60.2	94.9 J A	64.5 J A
Zirconium	mg/kg	2.63 J Z	4.69 J Z	2.19 J Z	4.74 J Z	3.91 J Z	3.01 J Z	1.90 J Z
Calcium	mg/kg	5060	48800	4830	33200 J E	13500	4830	21900
Phosphorus	mg/kg	322	452 J Q	389	224 J Q	202 J Q	283	370
Selenium	mg/kg	0.134 J Z	0.108 J Q, E, Z	0.176 J Z	0.0788 J Z	0.457 U	0.220 J Z	0.0673 J Q, Z
Chromium VI	mg/kg	0.54 J Z	0.52 J Z	0.40 J Z	0.85 J Z	1.2 U	0.32 J Z	1.1 U
Perchlorate (314.0)	ug/kg	33.1 U	34.2 U	33.8 U	33.2 U	35.0 U	35.0 U	34.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.7 U
Percent Moisture	%	9.5	12.2	11.3	9.6	14.2	14.2	12.6
pH	pH unit	7.03	8.51	6.98	8.34	8.14	6.71	8.41

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-087-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SB-4.0-5.0	SL-089-SA5DN-SS-0.0-0.5	SL-089-SA5DN-SB-4.0-5.0	SL-090-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	05/18/2011	05/20/2011	05/18/2011	05/23/2011	05/18/2011	05/27/2011
SDG		DE154	DE154	DE158	DE154	DE159	DE154	DE167
Start Depth		0	0	4	0	4	0	0
End Depth		0.5	0.5	5	0.5	5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	2.2	--	--	2.2	1.1 J Z	2.9	--
Fluoride	mg/kg	2.6 J Q	1.6 J Q	4.9 J Q	2.3 J Q	3.1	1.6 J Q	2.2
Cyanide	mg/kg	0.53 U	--	--	0.55 U	0.53 U	0.61 U	--
Aluminum	mg/kg	21800	19500	19500	26700	25600	21600	30200
Iron	mg/kg	26400	25300	25100	29700	27300	24500	31300
Lead	mg/kg	19.1 J Q, A	7.87 J Q, A	9.38 J A	10.4 J Q, A	15.4	12.8 J Q, A	12.3 J Q
Lithium	mg/kg	19.6	16	19.6	21.9	27	23.5	24.2
Magnesium	mg/kg	5830	4920	4690	5860	5550	5230	6550
Manganese	mg/kg	456	452	165	398	430	174	463 J *#
Mercury	mg/kg	2.18	0.108 U B	0.116 U	0.112 U B	0.103 U	0.119 U B	0.0351 J E, Z
Molybdenum	mg/kg	0.678 J Q	0.558 J Q	0.626 J Q	0.584 J Q	0.540 J E, Q	0.338 J Q	0.573
Nickel	mg/kg	22.2 J Q, A	16.7 J Q, A	15.7 J Q, A	20.4 J Q, A	29.9 J E, Q	19.6 J Q, A	21.3
Potassium	mg/kg	3910 J Q	4530 J Q	2110 J Q	4190 J Q	2650 J Q	3120 J Q	6010
Silver	mg/kg	0.0786 J Q, Z	0.0394 J Q, Z	0.0357 J Q, Z	0.0556 J Q, Z	0.0750 J Q, Z	0.0559 J Q, Z	0.0521 J Z
Sodium	mg/kg	107 J Z	87.3 J Z	170	106 J Z	191	116 J Z	95.2 J Z
Strontium	mg/kg	29.5	26.5	26.3	31.3	28.8	29.7	31.8
Thallium	mg/kg	0.353 J Q	0.485 J Q	0.352 J Q	0.459 J Q	0.440 J Q	0.385 J Q	0.328
Tin	mg/kg	10.8 U B	10.9 U B	11.5 U B	11.5 U B	10.9 U B, Z	12.3 U B	10.6 U B
Titanium	mg/kg	1110	1090	1190	1170	1390	979	1340
Antimony	mg/kg	0.534	0.451	0.206 J Q, Z	0.274	0.370 J Q	0.278	0.171 J Q, Z
Arsenic	mg/kg	7.12 J Q	4.33 J Q	8.58 J Q	6.06 J Q	12.3 J E, Q	4.05 J Q	5.37
Beryllium	mg/kg	0.909 J Q	1.23 J Q	0.949 J Q	0.881 J Q	1.14 J E	0.771 J Q	0.869 J Q
Barium	mg/kg	183	121	123	141	176 J E	106	133
Boron	mg/kg	19.3	19.1	11.7	23	5.45 U	16.7	5.31 U
Cadmium	mg/kg	0.759 J Q	0.264 J Q	0.0535 J Q, Z	0.348 J Q	0.330 J E, Q	0.656 J Q	0.442
Chromium	mg/kg	34.1 J Q, A	42.1 J Q, A	30.2 J Q, A	31.1 J Q, A	22.7 J *#	31.2 J Q, A	29.4
Cobalt	mg/kg	12.5 J Q, A	8.27 J Q, A	6.76 J Q, A	10.1 J Q, A	9.24 J E, *#	9.33 J Q, A	9.6
Copper	mg/kg	21.6 J Q, A	14.2 J Q, A	10.4 J A	17.1 J Q, A	20.1 J E, Q	107 J Q, A	16.5
Vanadium	mg/kg	68.7 J A	79.0 J A	56.9 J A	58.6 J A	90.3 J E	50.7 J A	53.7
Zinc	mg/kg	190 J A	55.9 J A	58.7 J A	77.8 J A	79.6 J *#	370 J A	88.7
Zirconium	mg/kg	2.42 J Z	1.85 J Z	1.36 J Z	3.06 J Z	5.65	2.31 J Z	3.34 J Z
Calcium	mg/kg	4640	3650	4630	4690	4530 J E	3800	5530
Phosphorus	mg/kg	329	292	172	254	253 J Q	263	416
Selenium	mg/kg	0.141 J Z	0.147 J Z	0.0625 J Q, Z	0.177 J Z	0.0574 J Z	0.118 J Z	0.161 J Z
Chromium VI	mg/kg	1.1 U	0.55 J Z	0.65 J Z	1.2 UJ FD	0.41 J Z	1.2 U	0.59 J Z
Perchlorate (314.0)	ug/kg	33.7 U	33.8 U	35.9 U	34.8 U	33.0 U	37.1 U	32.8 U
Perchlorate (6850)	ug/kg	--	--	6.0 U	5.8 U	5.5 U	--	5.5 U
Percent Moisture	%	11.1	11.2	16.4	13.8	9.1	19.2	8.5
pH	pH unit	7.27	6.14	7.82	6.56	7.55	7.07	7.08

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-091-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SS-0.0-0.5	SL-092-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SB-7.0-8.0	SL-093-SA5DN-SS-0.0-0.5	SL-093-SA5DN-SB-4.0-5.0	SL-093-SA5DN-SB-9.0-10.0
Sample Date		06/24/2011	05/27/2011	06/24/2011	06/24/2011	05/27/2011	06/20/2011	06/20/2011
SDG		DE188	DE167	DE188	DE188	DE167	DE184	DE184
Start Depth		4	0	4	7	0	4	9
End Depth		5	0.5	5	8	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	3.2 J E, Q	1.6	3.3 J E, Q	6.2 J E, Q	1.5	3.3 J Q	8.2 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	22100	29300	29900	21500	29400	35700	23900
Iron	mg/kg	28600 J A	29600	33800 J A	26600 J A	30900	37000	19300
Lead	mg/kg	16	12.1 J Q	13.7 J E, A	8.37 J E, A	12.7 J Q	14.4 J E, Q	11.8 J E, Q
Lithium	mg/kg	25.2	24	29.9	21.4	24	30.1	22.3
Magnesium	mg/kg	5960	6620	7700	5950	6490	8520	4530
Manganese	mg/kg	375	449 J *#	472	356	452 J *#	417	207
Mercury	mg/kg	0.117 U	0.0048 J E, Z	0.112 U	0.116 U	0.0127 J E, Z	0.118 U	0.109 U
Molybdenum	mg/kg	0.466	0.492	0.518 J Q	0.297 J Q	0.52	1.24	0.389
Nickel	mg/kg	30.4	22.1	31.7 J E, Q, A	18.8 J E, Q, A	21.5	30.3	26.2
Potassium	mg/kg	3230 J Q	5810	3830 J Q	3100 J Q	5880	4060 J Q	2240 J Q
Silver	mg/kg	0.0768 J Z	0.0519 J Z	0.0675 J FD, Q, Z	0.0480 J Q, Z	0.0473 J Z	0.0543 J Z	0.0584 J Z
Sodium	mg/kg	105 J Z	89.2 J Z	223	159	92.0 J Z	218	188
Strontium	mg/kg	61.3	31.5	38	54.7	29.7	42.1	48.5
Thallium	mg/kg	0.451	0.328	0.423 J Q	0.304 J Q	0.362	0.519	0.411
Tin	mg/kg	11.5 U B	11.1 U B	11.2 U B	11.4 U B	10.5 U B	11.4 U B	11.1 U B
Titanium	mg/kg	1240	1350	1350	1230	1390	1560 J L	1210 J L
Antimony	mg/kg	0.239 U B	0.0839 J Q, Z	0.223 UJ B, E	0.228 UJ B, E	0.126 J Q, Z	0.228 UJ B, Q	0.224 UJ B, Q
Arsenic	mg/kg	8.49	5.81	10.1 J E, A	5.92 J E, A	5.62	8.71	6.75
Beryllium	mg/kg	1.11	0.926 J Q	1.28 J E, Q	0.705 J E, Q	0.866 J Q	1.23	1.08
Barium	mg/kg	189	144	182 J A	120 J A	139	188	166
Boron	mg/kg	11.1	5.53 U	16	11.5	5.25 U	6.44	2.56 J Z
Cadmium	mg/kg	0.428	0.446	0.370 J Q	0.368 J Q	0.472	0.664	0.361
Chromium	mg/kg	42.4	32.2	42.5 J E, Q	26.9 J E, Q	30.3	55.1	43.7
Cobalt	mg/kg	16	10.5	16.7 J E, Q, A	9.04 J E, Q, A	10.7	17.2	12.8
Copper	mg/kg	21.8	16.8	23.7 J E, Q, A	13.4 J E, Q, A	16.5	28.7 J E	19.4 J E
Vanadium	mg/kg	98.3	60.4	77.2 J E	50.5 J E	56.8	101	74.3
Zinc	mg/kg	110	85.1	99.0 J E, A	58.7 J E, A	82.8	107	81.5
Zirconium	mg/kg	5.63 J Z	3.92 J Z	8.67	5.50 J Z	3.78 J Z	6.6	4.16 J Z
Calcium	mg/kg	48100	5510	7840	42200	5290	9230 J E	113000 J E
Phosphorus	mg/kg	478	428	406	423	403	474 J Q	286 J Q
Selenium	mg/kg	0.151 J Z	0.171 J Z	0.150 J FD, Q, Z	0.456 U	0.214 J Z	0.324 J Z	0.0865 J Z
Chromium VI	mg/kg	0.56 J Z	1.4	0.48 J Z	1.2 U	0.95 J Z	0.56 J Z	1.1 U
Perchlorate (314.0)	ug/kg	35.9 U	33.5 U	34.5 U	35.3 U	32.8 U	35.5 U	33.9 U
Perchlorate (6850)	ug/kg	6.0 U	--	5.7 U	--	--	--	--
Percent Moisture	%	16.4	10.5	13	14.9	8.5	15.6	11.5
pH	pH unit	8.36	7.06	7.82	8.41	6.67	7.95	8.17

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-094-SA5DN-SS-0.0-0.5	SL-094-SA5DN-SB-4.0-5.0	SL-094-SA5DN-SB-9.0-10.0	SL-095-SA5DN-SS-0.0-0.5	SL-095-SA5DN-SB-4.0-5.0	SL-095-SA5DN-SB-9.0-10.0	SL-097-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	06/22/2011	06/22/2011	05/31/2011	06/22/2011	06/22/2011	05/31/2011
SDG		DE169	DE186	DE186	DE169	DE186	DE186	DE169
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	1.9
Fluoride	mg/kg	2.4 J Q	3.2 J Q	3.7 J Q	1.3 J Q	2.3 J Q	6.1 J Q	1.8 J Q
Cyanide	mg/kg	--	--	--	--	--	--	0.53 U
Aluminum	mg/kg	25300	33600	35600	16800	32200	18700	25100
Iron	mg/kg	28600	34400	34200	21800	33900	20700	29000
Lead	mg/kg	12	13.8 J E, A	11.3 J E, A	14.4	17.4 J E, A	9.68 J E, A	26.4
Lithium	mg/kg	22.3	29.2	30.9	17.3	27.6	21.2	21.7
Magnesium	mg/kg	6220	7930	6570	4580	7270	4520	6170
Manganese	mg/kg	467 J E	387	386	359 J E	458	230	490 J E
Mercury	mg/kg	0.0319 J Z	0.0217 J Z	0.114 U B	0.0626 J Z	0.107 U B	0.108 U B	0.0586 J Z
Molybdenum	mg/kg	0.568	0.711 J E, Q	0.524 J E, Q	0.575	0.997 J E, Q	0.524 J E, Q	0.587
Nickel	mg/kg	20.7 J E, Q	34.6 J E, Q, A	26.6 J E, Q, A	15.7 J E, Q	43.4 J E, Q, A	24.9 J E, Q, A	20.9 J E, Q
Potassium	mg/kg	5710 J E	3650 J Q	3200 J Q	4590 J E	4190 J Q	2440 J Q	5620 J E
Silver	mg/kg	0.0507 J Z	0.0603 J Q, E, Z	0.0969 J Q, E, Z	0.0491 J Z	0.0958 J Q, E, Z	0.0536 J Q, E, Z	0.0492 J Z
Sodium	mg/kg	78.0 J Z	99.8 J Z	147	72.6 J Z	106 J Z	100 J Z	68.9 J Z
Strontium	mg/kg	27.9	34.3	32.8	21.9	31.9	47.8	27
Thallium	mg/kg	0.308	0.483 J Q, E	0.443 J Q, E	0.222	0.605 J Q, E	0.388 J Q, E	0.309
Tin	mg/kg	10.9 U B	11.5 U B	11.3 U B	10.3 U B	11.2 U B	11.1 U B	11.0 U B
Titanium	mg/kg	1220	1290	954	1030	1190	1060	1270
Antimony	mg/kg	0.246 J Q	0.175 J Q, Z	0.190 J Q, Z	0.198 J Q, Z	0.186 J Q, Z	0.164 J Q, Z	0.239 J Q
Arsenic	mg/kg	6.17 J Q	13.4 J E, A	9.68 J E, A	5.23 J Q	12.7 J E, A	8.11 J E, A	6.41 J Q
Beryllium	mg/kg	0.72	1.21 J E, Q	1.22 J E, Q	0.506	1.42 J E, Q	0.867 J E, Q	0.731
Barium	mg/kg	135	205 J E, A	178 J E, A	102	157 J E, A	135 J E, A	136
Boron	mg/kg	5.47 U	16.6	13.9	5.15 U	15	9.4	5.51 U
Cadmium	mg/kg	0.446	0.380 J Q, E	0.245 J Q, E	0.5	0.546 J Q, E	0.342 J Q, E	2.29
Chromium	mg/kg	25.5 J Q, A	41.7 J E	38.4 J E	20.4 J Q, A	49.9 J E	28.0 J E	26.5 J Q, A
Cobalt	mg/kg	9.83	14.3 J E, Q, A	8.72 J E, Q, A	6.87	19.9 J E, Q, A	10.3 J E, Q, A	10.3
Copper	mg/kg	16	23.2 J E, Q	18.5 J E, Q	13	29.1 J E, Q	14.0 J E, Q	15.8
Vanadium	mg/kg	45.2 J Q, A	71.6 J E	64.5 J E	35.6 J Q, A	81.1 J E	52.9 J E	46.7 J Q, A
Zinc	mg/kg	76.4	104 J E	77.8 J E	79.3	134 J E	66.4 J E	76.7
Zirconium	mg/kg	2.83 J Z	5.03 J Z	5.67 U F	1.96 J Z	5.59 U F	5.53 U F	3.05 J Z
Calcium	mg/kg	5380 J E	7220	19300	4090 J E	6470	91200	5200 J E
Phosphorus	mg/kg	464	399	308	484	342	316	421
Selenium	mg/kg	0.193 J Z	0.174 J Z	0.454 U	0.139 J Z	0.196 J Z	0.438 U	0.188 J Z
Chromium VI	mg/kg	1.1 U	0.57 J Z	1.2 U	1.1 U	0.86 J Z	1.1 U	0.39 J Z
Perchlorate (314.0)	ug/kg	33.1 U	34.7 U	34.7 U	32.2 U	33.9 U	33.5 U	33.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.6 U	--	3.5 J Z
Percent Moisture	%	9.5	13.6	13.6	6.7	11.4	10.4	11.1
pH	pH unit	7.33	7.64	8.03	7.62	7.37	8.02	7.45

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-097-SA5DN-SB-4.0-5.0	SL-097-SA5DN-SB-8.5-9.5	SL-098-SA5DN-SS-0.0-0.5	SL-098-SA5DN-SB-4.0-5.0	SL-098-SA5DN-SB-7.0-8.0	SL-099-SA5DN-SS-0.0-0.5	SL-099-SA5DN-SB-4.0-5.0
Sample Date		06/21/2011	06/21/2011	05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011
SDG		DE185	DE185	DE169	DE185	DE185	DE169	DE185
Start Depth		4	8.5	0	4	7	0	4
End Depth		5	9.5	0.5	5	8	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	1.8	1.1 J Z	15.1	2.2	1.2 J Z	2.2	1.6 J Z
Fluoride	mg/kg	3.5 J Q	5.8 J Q	2.4 J Q	4.3 J Q	5.5 J Q	2.8 J Q	3.7 J Q
Cyanide	mg/kg	0.56 U	0.56 U	0.55 U	0.57 U	0.56 U	0.53 U	0.54 U
Aluminum	mg/kg	35500	24100	23600	31900	28600	23500	28200
Iron	mg/kg	37400	26200	27700	34700	32000	27200	32700
Lead	mg/kg	13.7 J E, A	6.51 J E, A	14.5	47.6 J E, A	11.0 J E, A	12.9	13.1 J E, A
Lithium	mg/kg	29.7	27.1	21	28.8	29.7	21.6	27.2
Magnesium	mg/kg	8470	5590	5950	7380	6730	6000	6540
Manganese	mg/kg	498	404	453 J E	320	584	473 J E	475
Mercury	mg/kg	0.111 U	0.0129 J Z	0.737	0.108 J Z	0.0216 J Z	1.8	0.0398 J Z
Molybdenum	mg/kg	0.597 J E, Q	0.523 J E, Q	0.804	5.90 J E, Q	0.696 J E, Q	0.771	0.727 J E, Q
Nickel	mg/kg	36.0 J E, Q, A	17.6 J E, Q, A	23.1 J E, Q	60.0 J E, Q, A	33.9 J E, Q, A	21.2 J E, Q	32.9 J E, Q, A
Potassium	mg/kg	3540 J Q	2900 J Q	5430 J E	4020 J Q	3160 J Q	4480 J E	3430 J Q
Silver	mg/kg	0.0680 J Q, E, Z	0.0586 J Q, E, Z	0.0504 J Z	0.139 J Q, E	0.100 J Q, E, Z	0.0567 J Z	0.0887 J Q, E, Z
Sodium	mg/kg	134	130	85.6 J Z	127	124	91.1 J Z	134
Strontium	mg/kg	38.1	34.8	27.7	36.1	31.8	32.1	30.5
Thallium	mg/kg	0.481 J Q, E	0.313 J Q, E	0.291	0.469 J Q, E	0.460 J Q, E	0.269	0.431 J Q, E
Tin	mg/kg	11.6 U B	11.2 U B	11.1 U B	11.5 U B	11.6 U B	10.5 U B	10.9 U B
Titanium	mg/kg	1350	1170	1190	1290	1250	1190	1320
Antimony	mg/kg	0.213 J Q, Z	0.160 J Q, Z	0.232 J Q	1.39 J Q	0.187 J Q, Z	0.185 J Q, Z	0.173 J Q, Z
Arsenic	mg/kg	10.4 J E, A	6.54 J E, A	5.48 J Q	15.3 J E, A	11.8 J E, A	5.87 J Q	9.61 J E, A
Beryllium	mg/kg	1.20 J E, Q	0.665 J E, Q	0.678	1.16 J E, Q	1.06 J E, Q	0.625	1.17 J E, Q
Barium	mg/kg	163 J E, A	96.5 J E, A	132	143 J E, A	154 J E, A	123	160 J E, A
Boron	mg/kg	17.6	11.5	5.56 U	15.8	13.7	5.27 U	12.7
Cadmium	mg/kg	0.452 J Q, E	0.179 J Q, E	0.715	1.26 J Q, E	0.477 J Q, E	0.67	0.350 J Q, E
Chromium	mg/kg	40.2 J E	21.4 J E	29.3 J Q, A	80.0 J E	36.9 J E	26.1 J Q, A	39.0 J E
Cobalt	mg/kg	15.2 J E, Q, A	6.29 J E, Q, A	9.68	17.2 J E, Q, A	13.2 J E, Q, A	8.45	13.6 J E, Q, A
Copper	mg/kg	21.8 J E, Q	11.4 J E, Q	17.3	121 J E, Q	23.3 J E, Q	16.7	22.0 J E, Q
Vanadium	mg/kg	66.4 J E	40.9 J E	43.5 J Q, A	69.0 J E	66.0 J E	40.2 J Q, A	63.5 J E
Zinc	mg/kg	101 J E	48.2 J E	97	153 J E	87.9 J E	90.9	99.0 J E
Zirconium	mg/kg	3.61 J Z	3.17 J Z	3.40 J Z	4.16 J Z	3.87 J Z	3.56 J Z	2.98 J Z
Calcium	mg/kg	7460	35700	5540 J E	6310	7200	6740 J E	5420
Phosphorus	mg/kg	356	346	430	390	387	391	309
Selenium	mg/kg	0.110 J Z	0.436 U	0.172 J Z	0.192 J Z	0.0704 J Z	0.156 J Z	0.0993 J Z
Chromium VI	mg/kg	0.35 J Z	0.35 J Z	1.1 U	1.1 J Z	0.40 J Z	1.1	0.37 J Z
Perchlorate (314.0)	ug/kg	35.2 U	33.7 U	33.7 U	35.0 U	35.1 U	31.9 U	33.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.6 U
Percent Moisture	%	14.7	10.9	11	14.4	14.6	6	11.2
pH	pH unit	7.8	8.23	7.21	8.1	8.03	7.4	7.49

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-100-SA5DN-SS-0.0-0.5	SL-100-SA5DN-SB-3.0-4.0	SL-101-SA5DN-SS-0.0-0.5	SL-101-SA5DN-SB-2.5-3.5	SL-102-SA5DN-SS-0.0-0.5	SL-102-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SS-0.0-0.5
Sample Date		06/01/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011
SDG		DE170	DE187	DE169	DE187	DE169	DE187	DE169
Start Depth		0	3	0	2.5	0	4	0
End Depth		0.5	4	0.5	3.5	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	4.6	1.1 J Z	5.4
Fluoride	mg/kg	2.1 J Q	3.8 J Q	1.1 UJ Q	1.0 UJ Q	2.1 J Q	3.6 J Q	1.5 J Q
Cyanide	mg/kg	--	--	--	--	0.53 U	0.53 U	0.54 U
Aluminum	mg/kg	21300	16300	19000	18800	21500	22500	21500
Iron	mg/kg	27200	23300	29400	23600	26600	24600	26600
Lead	mg/kg	48.4	9.82	20.1	5.92	15.5	8.64	12.2
Lithium	mg/kg	20.6	29.5	17.6	27.8	22.1	25.3	19.9
Magnesium	mg/kg	5290	5630	5500	4720	5530	5050	6180
Manganese	mg/kg	473 J E	261	370 J E	247	373 J E	264	391 J E
Mercury	mg/kg	0.120 J E, Q	0.110 U	0.0090 J Z	0.0979 U	0.695	0.104 U	8.1
Molybdenum	mg/kg	0.744 J E, Q	0.561	0.675	0.418	0.606	0.531	0.918
Nickel	mg/kg	25.4 J Q, E	25.9	19.9 J E, Q	17.1	19.2 J E, Q	25.7	21.5 J E, Q
Potassium	mg/kg	4580	2540	4840 J E	2310	4010 J E	2260	4340 J E
Silver	mg/kg	0.0597 J Q, Z	0.0955 J Z	0.0965 J Z	0.0426 J Z	0.0602 J Z	0.0333 J Z	0.0570 J Z
Sodium	mg/kg	90.6 J Z	167	96.9 J Z	96.9 J Z	94.0 J Z	148	138
Strontium	mg/kg	27	24.8	27.5	19.1	26.4	20.8	30.5
Thallium	mg/kg	0.403 J Q	0.352	0.22	0.329	0.263	0.29	0.275
Tin	mg/kg	10.5 U B	11.2 U B	10.6 U B	10.2 U B	10.7 U B	10.5 U B	10.9 U B
Titanium	mg/kg	1250	1440	1090	1310	1100	1150	1190
Antimony	mg/kg	0.138 J Q, E, Z	0.218 U B	0.440 J Q	0.205 U B	0.212 J Q	0.205 U B	0.228 J Q
Arsenic	mg/kg	7.08 J Q	9.97	5.28 J Q	7.96	7.45 J Q	8.77	6.59 J Q
Beryllium	mg/kg	0.857 J Q	1.09	0.528	0.676	0.598	0.918	0.646
Barium	mg/kg	159 J E	194	115	132	118	133	130
Boron	mg/kg	10.3	8	5.29 U	7.67	5.37 U	7.26	5.47 U
Cadmium	mg/kg	0.495 J Q, E	0.263	1.03	0.139	0.491	0.268	0.562
Chromium	mg/kg	33.4 J Q, E	35.1	23.4 J Q, A	21	25.2 J Q, A	28.1	25.0 J Q, A
Cobalt	mg/kg	10.9 J Q, E	11	9.76	8.56	8.47	13.5	9.11
Copper	mg/kg	18.9 J Q	16.7	15.1	9.9	15.2	12.6	17
Vanadium	mg/kg	56.6 J A	63.3	50.5 J Q, A	43.6	40.5 J Q, A	50.4	42.4 J Q, A
Zinc	mg/kg	88.5	80	93.3	68.8	78.7	61.6	82.8
Zirconium	mg/kg	4.40 J Z	3.88 J Z	2.03 J Z	4.48 J Z	2.63 J Z	5.04 J Z	4.15 J Z
Calcium	mg/kg	4410	5270	5420 J E	3860	5010 J E	3620	5260 J E
Phosphorus	mg/kg	347 J Q	395	635	342	361	279	426
Selenium	mg/kg	0.194 J Z	0.123 J Z	0.250 J Z	0.119 J Z	0.155 J Z	0.144 J Z	0.183 J Z
Chromium VI	mg/kg	0.47 J Z	0.65 J Z	0.98 J Z	1.0 U	0.64 J Z	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	31.9 U	34.0 U	32.1 U	31.3 U	32.9 U	32.0 U	32.8 U
Perchlorate (6850)	ug/kg	--	5.7 U	--	--	--	--	--
Percent Moisture	%	5.9	11.8	6.4	4.2	8.8	6.2	8.6
pH	pH unit	7.27	8.34	6.91	7.73	7.62	7.13	7.45

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-103-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SB-7.0-8.0	SL-104-SA5DN-SS-0.0-0.5	SL-104-SA5DN-SB-4.0-5.0	SL-105-SA5DN-SS-0.0-0.5	SL-105-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SS-0.0-0.5
Sample Date		06/24/2011	06/24/2011	05/31/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011
SDG		DE188	DE188	DE169	DE187	DE170	DE187	DE170
Start Depth		4	7	0	4	0	4	0
End Depth		5	8	0.5	5	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.3 J Z	1.5 J Z	2	1.3 J Z	2.1 J Q	1.9	1.9 J Q
Fluoride	mg/kg	4.3 J E, Q	4.3 J E, Q	1.4 J Q	2.5 J Q	2.5 J Q	4.5 J Q	1.7 J Q
Cyanide	mg/kg	0.55 U	0.59 U	0.53 U	0.56 U	0.53 U	0.55 U	0.50 U
Aluminum	mg/kg	20700	13800	19400	25000	20400	22200	20700
Iron	mg/kg	25600 J A	20000 J A	24800	28200	28900	26800	25300
Lead	mg/kg	12.8 J E, A	6.07 J E, A	11.3	10	12.5	12.2	16.2
Lithium	mg/kg	23.3	23.6	19.8	27.9	20.7	20	20.7
Magnesium	mg/kg	5130	4100	5200	5890	5280	5510	5100
Manganese	mg/kg	433	167	374 J E	288	1590 J E	412	357 J E
Mercury	mg/kg	1.68	0.0358 J Z	0.32	0.0129 J Z	0.321 J E, Q	0.228	0.621 J E, Q
Molybdenum	mg/kg	1.36 J Q	0.456 J Q	0.635	0.636	1.11 J E, Q	1.77	0.656 J E, Q
Nickel	mg/kg	23.0 J E, Q, A	14.9 J E, Q, A	18.8 J E, Q	25.5	34.6 J Q, E	25.3	23.6 J Q, E
Potassium	mg/kg	2950 J Q	2420 J Q	3650 J E	2800	3800	4410	4480
Silver	mg/kg	0.0729 J Q, Z	0.0570 J Q, Z	0.0659 J Z	0.0954 J Z	0.0903 J Q, Z	0.0519 J Z	0.0621 J Q, Z
Sodium	mg/kg	177	140	96.2 J Z	175	100 J Z	328	88.6 J Z
Strontium	mg/kg	29.2	19.6	28.5	29.8	34.7	29.4	25.1
Thallium	mg/kg	0.316 J Q	0.244 J Q	0.251	0.335	0.521 J Q	0.333	0.409 J Q
Tin	mg/kg	10.7 U B	11.4 U B	10.5 U B	10.8 U B	10.7 U B	10.9 U B	10.6 U B
Titanium	mg/kg	1210	1040	1120	1220	1270	1220	1260
Antimony	mg/kg	0.215 UJ B, E	0.230 UJ B, E	0.196 J Q, Z	0.220 U B	0.220 J Q, E	0.212 U B	0.208 J Q, E
Arsenic	mg/kg	9.53 J E, A	5.75 J E, A	5.62 J Q	9.76	8.88 J Q	8.31	6.65 J Q
Beryllium	mg/kg	0.905 J E, Q	0.580 J E, Q	0.591	1.04	1.04 J Q	0.817	0.824 J Q
Barium	mg/kg	142 J A	71.1 J A	120	175	125 J E	160	163 J E
Boron	mg/kg	8.92	5.95	5.23 U	9.89	10.9	9.36	10.2
Cadmium	mg/kg	0.423 J Q	0.169 J Q	0.351	0.245	0.684 J Q, E	0.418	0.471 J Q, E
Chromium	mg/kg	35.5 J E, Q	19.0 J E, Q	22.7 J Q, A	35.7	44.0 J Q, E	32.4	31.8 J Q, E
Cobalt	mg/kg	9.23 J E, Q, A	7.94 J E, Q, A	7.98	10.9	15.0 J Q, E	10.7	10.4 J Q, E
Copper	mg/kg	20.7 J E, Q, A	9.90 J E, Q, A	14.5	17.2	26.5 J Q	20.9	18.0 J Q
Vanadium	mg/kg	54.7 J E	35.5 J E	39.7 J Q, A	62.1	73.9 J A	54	56.6 J A
Zinc	mg/kg	76.6 J E, A	49.0 J E, A	74.6	78.3	139	84.7	90.4
Zirconium	mg/kg	6.34	5.70 U B	2.35 J Z	5.65	3.93 J Z	4.51 J Z	3.55 J Z
Calcium	mg/kg	10200	13400	4790 J E	4760	8750	5750	4550
Phosphorus	mg/kg	321	313	405	316	402 J Q	368	339 J Q
Selenium	mg/kg	0.115 J Q, Z	0.461 U	0.165 J Z	0.0805 J Z	0.216 J Z	0.146 J Z	0.172 J Z
Chromium VI	mg/kg	0.56 J Z	1.2 U	0.99 J Z	1.1 U	0.73 J Z	0.77 J Z	0.62 J Z
Perchlorate (314.0)	ug/kg	32.9 U	35.3 U	32.0 U	33.7 U	32.0 U	33.1 U	32.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.3 U	--	--
Percent Moisture	%	8.8	14.9	6.3	10.9	6.3	9.3	6.3
pH	pH unit	8.22	8.21	7.23	7.57	7.71	8.28	7.74

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-106-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SB-9.0-10.0	SL-107-SA5DN-SS-0.0-0.5	SL-107-SA5DN-SB-3.5-4.5	SL-108-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SB-3.5-4.5
Sample Date		06/23/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/01/2011	06/23/2011
SDG		DE187	DE187	DE170	DE187	DE170	DE170	DE187
Start Depth		4	9	0	3.5	0	0	3.5
End Depth		5	10	0.5	4.5	0.5	0.5	4.5
Chemical Name	Unit							
Nitrate	mg/kg	2.1	1.2 J Z	2.3 J Q	1.4 J Z	--	3.8 J Q	1.1 J Z
Fluoride	mg/kg	4.0 J Q	3.4 J Q	2.1 J Q	4.2 J Q	2.4 J Q	3.1 J Q	2.4 J Q
Cyanide	mg/kg	0.55 U	0.56 U	0.52 U	0.53 U	--	0.52 U	0.51 U
Aluminum	mg/kg	23900	15500	18600	25100	20500	20200	25600
Iron	mg/kg	26700	20600	22500	28300	25600	24500	27200
Lead	mg/kg	8.91	5.7	18.3	6.54	18.6	14	5.79
Lithium	mg/kg	22.2	23.1	20.2	27.4	21.2	19.5	29.1
Magnesium	mg/kg	5260	4400	4760	5520	5240	6240	5360
Manganese	mg/kg	572	210	409 J E	410	387 J E	393 J E	209
Mercury	mg/kg	0.105 U	0.0121 J Z	0.896 J E, Q	0.0189 J Z	0.653 J E, Q	0.378 J E, Q	0.100 U
Molybdenum	mg/kg	0.532	0.272	0.591 J E, Q	0.595	0.809 J E, Q	0.803 J E, Q	0.75
Nickel	mg/kg	22	13.4	18.7 J Q, E	18.2	25.1 J Q, E	30.0 J Q, E	13.1
Potassium	mg/kg	3800	2250	3970	2300	4200	4080	2100
Silver	mg/kg	0.0608 J Z	0.0918 J Z	0.0538 J Q, Z	0.155	0.151 J FD, Q	0.0663 J Q, Z	0.0703 J Z
Sodium	mg/kg	218	129	83.9 J Z	169	103 J Z	112	140
Strontium	mg/kg	29.3	20.7	23.5	28.6	28.6	29	25.1
Thallium	mg/kg	0.337	0.257	0.361 J Q	0.259	0.356 J Q	0.427 J Q	0.234
Tin	mg/kg	10.8 U B	10.9 U B	10.2 U B	10.7 U B	10.3 U B	10.7 U B	10.2 U B
Titanium	mg/kg	1320	1150	1210	1270	1150	1110	1120
Antimony	mg/kg	0.218 U B	0.219 U B	0.146 J Q, E, Z	0.215 U B	0.157 J Q, E, Z	0.221 J Q, E	0.204 U B
Arsenic	mg/kg	7.4	5.52	5.54 J Q	7.41	6.41 J Q	7.67 J Q	5.71
Beryllium	mg/kg	0.847	0.562	0.741 J Q	0.793	0.796 J Q	0.951 J Q	0.574
Barium	mg/kg	143	86.8	141 J E	138	151 J E	189 J E	89.6
Boron	mg/kg	10	6.93	8.84	8.65	5.28 UJ FD	10.2	7.68
Cadmium	mg/kg	0.288	0.112	0.388 J Q, E	0.126	0.435 J Q, E	0.604 J Q, E	0.0715 J Z
Chromium	mg/kg	27.7	21.9	26.0 J Q, E	27.4	33.6 J Q, E	37.1 J Q, E	20.3
Cobalt	mg/kg	10.3	5.45	9.10 J Q, E	6.64	9.66 J Q, E	13.1 J Q, E	6.97
Copper	mg/kg	15.1	10.8	14.3 J Q	11.8	17.9 J Q	23.4 J Q	8.31
Vanadium	mg/kg	50.3	35.3	48.0 J A	52	50.3 J A	64.0 J A	34.6
Zinc	mg/kg	64.2	53.2	76.7	62	88.4	103	49.9
Zirconium	mg/kg	5.7	3.78 J Z	1.37 J Z	5.75	3.89 J Z	4.85 J Z	4.52 J Z
Calcium	mg/kg	4140	7110	3860	4000	5100	6680	3920
Phosphorus	mg/kg	271	322	388 J Q	267	408 J Q	407 J Q	222
Selenium	mg/kg	0.0789 J Z	0.439 U	0.130 J Z	0.430 U	0.164 J Z	0.201 J Z	0.114 J Z
Chromium VI	mg/kg	0.73 J Z	1.1 U	0.41 J Z	0.67 J Z	0.64 J Z	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	33.7 U	33.6 U	31.3 U	32.9 U	31.7 U	32.6 U	31.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.9	10.6	4.2	8.8	5.3	8.1	4.8
pH	pH unit	8.26	8.43	6.85	7.22	7.16	7.13	7

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-110-SA5DN-SS-0.0-0.5	SL-110-SA5DN-SB-4.0-5.0	SL-111-SA5DN-SS-0.0-0.5	SL-111-SA5DN-SB-4.0-5.0	SL-112-SA5DN-SS-0.0-0.5	SL-112-SA5DN-SB-4.0-5.0	SL-113-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	06/23/2011	05/31/2011	06/22/2011	05/31/2011	06/22/2011	05/31/2011
SDG		DE169	DE187	DE169	DE186	DE169	DE186	DE169
Start Depth		0	4	0	4	0	4	0
End Depth		0.5	5	0.5	5	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	4.6	1.4 J Z	4.5	2	3.4	2.1	2
Fluoride	mg/kg	2.9 J Q	3.9 J Q	3.1 J Q	4.7 J Q	2.6 J Q	3.0 J Q	2.0 J Q
Cyanide	mg/kg	0.54 U	0.55 U	0.55 U	0.57 U	0.55 U	0.58 U	0.52 U
Aluminum	mg/kg	24800	26400	21700	33600	21000	36500	23600
Iron	mg/kg	28300	30900	25700	34900	41100	38400	28200
Lead	mg/kg	12.1	8.98	11.5	11.7 J E, A	12	15.9 J E, A	16.5
Lithium	mg/kg	21.8	28.6	20.6	30.2	20.1	31.3	21.2
Magnesium	mg/kg	6130	5610	5430	7100	5550	8050	6050
Manganese	mg/kg	433 J E	403	409 J E	584	401 J E	443	450 J E
Mercury	mg/kg	0.233	0.0814 J Z	0.46	0.108 U B	0.325	0.112 U B	53.8
Molybdenum	mg/kg	0.624	0.676	0.641	0.582 J E, Q	0.653	0.831 J E, Q	0.831
Nickel	mg/kg	20.7 J E, Q	22	18.8 J E, Q	27.3 J E, Q, A	18.7 J E, Q	42.5 J E, Q, A	22.0 J E, Q
Potassium	mg/kg	5270 J E	2470	4660 J E	3530 J Q	4430 J E	3900 J Q	4820 J E
Silver	mg/kg	0.0487 J Z	0.0851 J Z	0.0509 J Z	0.0763 J Q, E, Z	0.0409 J Z	0.0865 J Q, E, Z	0.0625 J Z
Sodium	mg/kg	95.8 J Z	521	77.8 J Z	161	81.1 J Z	186	80.5 J Z
Strontium	mg/kg	28.5	25.6	26.1	33.2	27	36.3	29.3
Thallium	mg/kg	0.303	0.306	0.285	0.394 J Q, E	0.263	0.549 J Q, E	0.307
Tin	mg/kg	11.0 U B	10.5 U B	11.1 U B	11.1 U B	10.7 U B	11.5 U B	10.9 U B
Titanium	mg/kg	1170	1180	1170	1200	1010	1270	1160
Antimony	mg/kg	0.193 J Q, Z	0.212 U B	0.185 J Q, Z	0.159 J Q, Z	0.150 J Q, Z	0.229 J Q	0.413 J Q
Arsenic	mg/kg	6.21 J Q	8.08	9.15 J Q	9.67 J E, A	5.59 J Q	12.3 J E, A	6.73 J Q
Beryllium	mg/kg	0.663	0.993	0.641	1.05 J E, Q	0.606	1.28 J E, Q	0.685
Barium	mg/kg	134	154	125	181 J E, A	122	229 J E, A	135
Boron	mg/kg	5.48 U	10.6	5.56 U	13.8	5.35 U	17.8	5.43 U
Cadmium	mg/kg	0.429	0.18	0.406	0.270 J Q, E	0.418	0.506 J Q, E	0.649
Chromium	mg/kg	25.2 J Q, A	30.5	24.4 J Q, A	36.2 J E	24.1 J Q, A	47.0 J E	25.8 J Q, A
Cobalt	mg/kg	9.79	8.04	9.12	12.3 J E, Q, A	8.71	18.5 J E, Q, A	10.1
Copper	mg/kg	16.1	15.2	14.6	18.1 J E, Q	15	23.2 J E, Q	17.9
Vanadium	mg/kg	44.0 J Q, A	52.2	42.5 J Q, A	62.6 J E	41.1 J Q, A	80.6 J E	45.2 J Q, A
Zinc	mg/kg	77.6	67	74.4	77.9 J E	71.7	109 J E	93.2
Zirconium	mg/kg	3.42 J Z	4.45 J Z	2.95 J Z	4.28 J Z	1.96 J Z	4.33 J Z	3.29 J Z
Calcium	mg/kg	5180 J E	4170	4480 J E	5630	4590 J E	6820	5180 J E
Phosphorus	mg/kg	405	244	389	289	424	325	396
Selenium	mg/kg	0.184 J Z	0.0846 J Z	0.166 J Z	0.0749 J Z	0.167 J Z	0.144 J Z	0.186 J Z
Chromium VI	mg/kg	0.64 J Z	0.42 J Z	0.81 J Z	0.49 J Z	0.53 J Z	0.74 J Z	0.82 J Z
Perchlorate (314.0)	ug/kg	32.9 U	32.8 U	33.4 U	34.2 U	32.7 U	35.1 U	32.9 U
Perchlorate (6850)	ug/kg	--	--	3.7 J Z	--	--	--	--
Percent Moisture	%	8.7	8.5	10.1	12.2	8.3	14.5	8.8
pH	pH unit	7.1	7.44	7.44	7.3	7.4	7.38	7.52

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-113-SA5DN-SB-4.0-5.0	SL-114-SA5DN-SS-0.0-0.5	SL-114-SA5DN-SB-4.0-5.0	SL-115-SA5DN-SB-4.0-5.0	SL-116-SA5DN-SB-2.0-3.0	SL-117-SA5DN-SS-0.0-0.5	SL-117-SA5DN-SB-4.0-5.0
Sample Date		06/21/2011	05/31/2011	06/22/2011	06/22/2011	06/28/2011	05/27/2011	06/20/2011
SDG		DE185	DE169	DE186	DE186	DE190	DE167	DE184
Start Depth		4	0	4	4	2	0	4
End Depth		5	0.5	5	5	3	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	2.4	--	--	--	--	2.4	1.5 J Z
Fluoride	mg/kg	4.8 J Q	1.7 J Q	2.0 J Q	2.7 J Q	5.9 J FD, Q	1.6	4.5 J Q
Cyanide	mg/kg	0.59 U	--	--	--	--	0.54 U	0.56 U
Aluminum	mg/kg	35200	18500	36800	33400	16700	30100	33700
Iron	mg/kg	36100	24400	37200	35500	22200	31800	37100
Lead	mg/kg	14.5 J E, A	10.6	13.3 J E, A	12.7 J E, A	8.01 J E, Q, A	12.6 J Q	11.3 J E, Q
Lithium	mg/kg	30.4	19.6	30.3	32.1	26.1	24.1	29.4
Magnesium	mg/kg	8060	4840	8080	8120	5180	6580	7590
Manganese	mg/kg	292	421 J E	456	307	256	464 J *#	529
Mercury	mg/kg	0.0146 J Z	0.149	0.110 U	0.0102 J Z	0.106 UJ FD	0.0644 J E, Z	0.112 U
Molybdenum	mg/kg	0.555 J E, Q	0.666	0.816 J E, Q	0.406 J E, Q	0.329	0.536	0.498
Nickel	mg/kg	38.9 J E, Q, A	16.2 J E, Q	33.0 J E, Q, A	33.6 J E, Q, A	20.7 J Q, A	21.1	27.3
Potassium	mg/kg	3280 J Q	4610 J E	3870 J Q	3300 J Q	2320 J Q	5780	3690 J Q
Silver	mg/kg	0.0989 J Q, E, Z	0.0636 J Z	0.0681 J Q, E, Z	0.0682 J Q, E, Z	0.0883 J FD, Z	0.0643 J Z	0.0647 J Z
Sodium	mg/kg	205	71.8 J Z	135	171	150	101 J Z	163
Strontium	mg/kg	37.8	25	37.2	43.4	22.8	31.7	36.5
Thallium	mg/kg	0.486 J Q, E	0.267	0.479 J Q, E	0.404 J Q, E	0.295	0.362	0.341
Tin	mg/kg	11.6 U B	10.4 U B	11.1 U B	11.0 U B	10.7 U B	10.8 U B	10.9 U B
Titanium	mg/kg	1350	1090	1150	1100	1210	1420	1240 J L
Antimony	mg/kg	0.218 J Q, Z	0.156 J Q, Z	0.169 J Q, Z	0.156 J Q, Z	0.215 UJ B, Q	0.135 J Q, Z	0.217 UJ B, Q
Arsenic	mg/kg	12.3 J E, A	6.17 J Q	9.87 J E, A	9.56 J E, A	8.46	5.24	8.05
Beryllium	mg/kg	1.31 J E, Q	0.539	1.17 J E, Q	1.04 J E, Q	0.675	0.889 J Q	1.12
Barium	mg/kg	175 J E, A	117	142 J E, A	165 J E, A	95.9 J A	138	184
Boron	mg/kg	15.8	5.19 U	16.9	16.6	4.30 J Z	5.42 U	2.99 J Z
Cadmium	mg/kg	0.468 J Q, E	0.454	0.418 J Q, E	0.343 J Q, E	0.117	0.5	0.332
Chromium	mg/kg	46.8 J E	20.2 J Q, A	38.9 J E	37.3 J E	26.1 J Q, A	31	45.4
Cobalt	mg/kg	18.9 J E, Q, A	7.58	15.0 J E, Q, A	14.8 J E, Q, A	7.09 J A	9.33	12.8
Copper	mg/kg	23.9 J E, Q	14.5	21.9 J E, Q	18.0 J E, Q	12.2 J A	16.4	19.5 J E
Vanadium	mg/kg	81.2 J E	37.3 J Q, A	62.5 J E	60.5 J E	51.9 J A	56.6	80.7
Zinc	mg/kg	105 J E	65.9	97.5 J E	83.1 J E	58.4	80.2	79.5
Zirconium	mg/kg	3.50 J Z	2.34 J Z	4.86 J Z	4.81 J Z	3.95 J Z	4.09 J Z	5.02 J Z
Calcium	mg/kg	7320	5180 J E	6810	6830	3530	5500	6460 J E
Phosphorus	mg/kg	321	439	308	278	363 J Q, E	387	360 J Q
Selenium	mg/kg	0.115 J Z	0.138 J Z	0.122 J Z	0.0811 J Z	0.103 J Z	0.195 J Z	0.0650 J Z
Chromium VI	mg/kg	0.43 J Z	0.83 J Z	0.70 J Z	1.1 U	0.46 J Z	1.5 J FD	0.54 J Z
Perchlorate (314.0)	ug/kg	35.8 U	32.1 U	33.8 U	34.4 U	32.3 U	33.1 U	33.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	16.1	6.5	11.2	12.7	7.1	9.5	11.2
pH	pH unit	8	7.21	6.94	7.81	7.87	6.85	7.84

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-118-SA5DN-SS-0.0-0.5	SL-118-SA5DN-SB-4.0-5.0	SL-119-SA5DN-SS-0.0-0.5	SL-119-SA5DN-SB-4.0-5.0	SL-120-SA5DN-SS-0.0-0.5	SL-120-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SS-0.0-0.5
Sample Date		05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/21/2011	05/31/2011
SDG		DE167	DE184	DE167	DE184	DE167	DE185	DE169
Start Depth		0	4	0	4	0	4	0
End Depth		0.5	5	0.5	5	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	2.1	1.3 J Z	4.1	2.5	2.5	1.7	1.7
Fluoride	mg/kg	2	3.6 J Q	1.5	3.3 J Q	1.2	3.4 J Q	1.8 J Q
Cyanide	mg/kg	0.54 U	0.55 U	0.54 U	0.57 U	0.53 U	0.56 U	0.51 U
Aluminum	mg/kg	27300	33400	27000	37000	28300	31500	20000
Iron	mg/kg	27300	33200	26300	37500	31600	34400	26300
Lead	mg/kg	9.91 J Q	13.5 J E, Q	12.5 J Q	14.8 J E, Q	16.4 J Q	11.4 J E, A	27.3
Lithium	mg/kg	21.3	29.1	22.1	31.7	23.3	29.5	20.6
Magnesium	mg/kg	6020	6690	6030	7140	6350	6990	5370
Manganese	mg/kg	484 J *#	382	463 J *#	357	488 J *#	434	393 J E
Mercury	mg/kg	0.0247 J E, Z	0.109 U	0.0644 J E, Z	0.107 U	0.461 J E	0.0096 J Z	0.351
Molybdenum	mg/kg	0.548	0.652	0.524	0.665	0.622	0.569 J E, Q	1.36
Nickel	mg/kg	19.8	33.4	21.5	37.1	21.8	28.2 J E, Q, A	46.7 J E, Q
Potassium	mg/kg	5750	3230 J Q	5710	3340 J Q	5560	3730 J Q	4260 J E
Silver	mg/kg	0.0376 J Z	0.0859 J Z	0.0569 J Z	0.0699 J Z	0.268	0.0798 J Q, E, Z	0.0813 J Z
Sodium	mg/kg	95.6 J Z	168	87.5 J Z	179	92.5 J Z	137	75.1 J Z
Strontium	mg/kg	29.6	33.2	28.6	33.6	29.9	33.6	24.8
Thallium	mg/kg	0.354	0.413	0.341	0.455	0.326	0.368 J Q, E	0.298
Tin	mg/kg	10.9 U B	11.0 U B	10.7 U B	11.2 U B	10.6 U B	11.2 U B	10.5 U B
Titanium	mg/kg	1390	1510 J L	1350	1480 J L	1220	1170	1100
Antimony	mg/kg	0.112 J Q, Z	0.213 UJ B, Q	0.123 J Q, Z	0.221 UJ B, Q	0.136 J Q, Z	0.202 J Q, Z	0.252 J Q
Arsenic	mg/kg	5.16	10	5.75	10.1	5.48	9.28 J E, A	6.03 J Q
Beryllium	mg/kg	0.808 J Q	1.31	0.886 J Q	1.36	0.803 J Q	1.22 J E, Q	0.612
Barium	mg/kg	127	146	141	181	134	198 J E, A	121
Boron	mg/kg	5.45 U	3.49 J Z	5.33 U	2.32 J Z	5.28 U	13.7	5.26 U
Cadmium	mg/kg	0.465	0.218	0.901	0.51	2.02	0.251 J Q, E	1.76
Chromium	mg/kg	26.6	53.2	29.1	56.6	29.4	37.0 J E	70.8 J Q, A
Cobalt	mg/kg	9.87	14.5	9.51	14.4	9.84	11.1 J E, Q, A	8.93
Copper	mg/kg	15.5	23.0 J E	17.9	24.9 J E	18.1	19.6 J E, Q	17.8
Vanadium	mg/kg	50.3	91.1	53.5	101	50.8	65.0 J E	39.9 J Q, A
Zinc	mg/kg	68.9	92.3	106	95.9	186	84.2 J E	167
Zirconium	mg/kg	3.47 J Z	5.81	2.94 J Z	5.94	3.04 J Z	2.16 J Z	2.43 J Z
Calcium	mg/kg	4920	5750 J E	5150	5670 J E	5330	5630	4600 J E
Phosphorus	mg/kg	392	337 J Q	404	309 J Q	375	333	391
Selenium	mg/kg	0.185 J Z	0.0846 J Z	0.184 J Z	0.0832 J Z	0.156 J Z	0.0901 J Z	0.159 J Z
Chromium VI	mg/kg	1.0 J Z	0.38 J Z	1.0 J Z	0.53 J Z	1.2	0.60 J Z	1.1
Perchlorate (314.0)	ug/kg	33.0 U	33.3 U	33.3 U	34.4 U	33.0 U	33.8 U	32.2 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	9.1	9.8	9.8	12.8	9	11.3	6.8
pH	pH unit	6.86	7.76	6.77	7.22	6.82	7.43	7.47

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-121-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SB-8.0-9.0	SL-122-SA5DN-SS-0.0-0.5	SL-122-SA5DN-SB-4.0-5.0	SL-123-SA5DN-SS-0.0-0.5	SL-123-SA5DN-SB-2.5-3.5	SL-124-SA5DN-SS-0.0-0.5
Sample Date		06/21/2011	06/21/2011	05/27/2011	06/24/2011	06/01/2011	06/27/2011	06/01/2011
SDG		DE185	DE185	DE167	DE188	DE170	DE189	DE170
Start Depth		4	8	0	4	0	2.5	0
End Depth		5	9	0.5	5	0.5	3.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	2	2.7	--	--	--	--	--
Fluoride	mg/kg	3.4 J Q	2.4 J Q	1.1 J Z	5.3 J E, Q	1.7 J Q	3.1 J E	2.3 J Q
Cyanide	mg/kg	0.55 U	0.52 U	--	--	--	--	--
Aluminum	mg/kg	32600	17300	34000	30000	18500	17100	18300
Iron	mg/kg	35500	28900	35300	36700 J A	21500	22800	21700
Lead	mg/kg	15.9 J E, A	7.09 J E, A	14.4 J Q	14.6 J E, A	17.8	6.80 J Q, E	28.7
Lithium	mg/kg	30.8	30.5	25.4	28.3	18.6	25.5	19.1
Magnesium	mg/kg	7200	6890	7140	8090	4540	5750	4560
Manganese	mg/kg	629	319	473 J *#	478	368 J E	270 J E, Q	263 J E
Mercury	mg/kg	0.0190 J Z	0.0211 J Z	0.115 U	0.105 U	0.0440 J E, Q, Z	0.0996 U	0.317 J E, Q
Molybdenum	mg/kg	0.740 J E, Q	0.672 J E, Q	0.5	0.447 J Q	0.774 J E, Q	0.439 J Q	1.17 J E, Q
Nickel	mg/kg	43.5 J E, Q, A	24.2 J E, Q, A	22.9	31.6 J E, Q, A	25.1 J Q, E	21.6 J Q	24.5 J Q, E
Potassium	mg/kg	3380 J Q	2490 J Q	5770	3520 J Q	4020	1970 J Q	4510
Silver	mg/kg	0.101 J Q, E, Z	0.0249 J Q, E, Z	0.0558 J Z	0.0615 J Q, Z	0.0660 J Q, Z	0.0183 J Q, Z	0.148 J Q
Sodium	mg/kg	177	155	96.5 J Z	187	86.2 J Z	473	86.0 J Z
Strontium	mg/kg	34.6	22.7	36	40.7	24.6	20.2	31.8
Thallium	mg/kg	0.518 J Q, E	0.334 J Q, E	0.376	0.373 J Q	0.426 J Q	0.387 J Q, E	0.433 J Q
Tin	mg/kg	10.9 U B	10.4 U B	11.8 U B	11.3 U B	10.7 U B	10.3 U B	10.8 U B
Titanium	mg/kg	1060	1200	1620	1210	1160	1270	1220
Antimony	mg/kg	0.302 J Q	0.175 J Q, Z	0.130 J Q, Z	0.217 UJ B, E	0.167 J Q, E, Z	0.199 J Q, E, Z	0.172 J Q, E, Z
Arsenic	mg/kg	11.4 J E, A	10.2 J E, A	6.31	8.54 J E, A	7.17 J Q	9.10 J Q	6.45 J Q
Beryllium	mg/kg	1.44 J E, Q	0.664 J E, Q	1.07 J Q	1.13 J E, Q	0.896 J Q	0.736 J Q	0.787 J Q
Barium	mg/kg	248 J E, A	89.5 J E, A	148	179 J A	169 J E	112	153 J E
Boron	mg/kg	14.1	9.91	5.91 U	14.7	8.91	5.11 J Z	9.69
Cadmium	mg/kg	0.390 J Q, E	0.227 J Q, E	0.486	0.367 J Q	0.553 J Q, E	0.143 J Q	1.32 J Q, E
Chromium	mg/kg	51.9 J E	26.3 J E	32.6	35.7 J E, Q	34.7 J Q, E	29.4 J Q	30.7 J Q, E
Cobalt	mg/kg	15.6 J E, Q, A	9.75 J E, Q, A	10.4	18.6 J E, Q, A	11.5 J Q, E	9.01 J Q	9.68 J Q, E
Copper	mg/kg	24.9 J E, Q	15.4 J E, Q	19.3	21.4 J E, Q, A	20.9 J Q	13.9 J Q	27.7 J Q
Vanadium	mg/kg	86.4 J E	41.2 J E	61.9	62.3 J E	60.3 J A	44.2	52.4 J A
Zinc	mg/kg	116 J E	74.0 J E	84.4	86.8 J E, A	99.9	74.6	144
Zirconium	mg/kg	4.08 J Z	2.63 J Z	4.09 J Z	7.3	3.19 J Z	3.28 J Z	3.57 J Z
Calcium	mg/kg	5860	5250	5780	7070	3630	3670	3750
Phosphorus	mg/kg	406	612	402	375	310 J Q	437 J Q	367 J Q
Selenium	mg/kg	0.119 J Z	0.0822 J Z	0.213 J Z	0.0840 J Q, Z	0.220 J Z	0.0646 J Q, L, Z	0.379 J Z
Chromium VI	mg/kg	0.45 J Z	0.31 J Z	0.72 J Z	0.49 J Z	1.1 U	1.1 U	0.93 J Z
Perchlorate (314.0)	ug/kg	33.3 U	31.9 U	35.5 U	33.8 U	32.3 U	32.1 U	32.6 U
Perchlorate (6850)	ug/kg	--	--	--	5.6 U	--	--	--
Percent Moisture	%	10	5.9	15.4	11.3	7.2	6.5	7.9
pH	pH unit	7.52	7.97	6.76	7.86	6.53	7.68	6.54

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-125-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SB-4.0-5.0	SL-125-SA5DN-SB-9.0-10.0	SL-126-SA5DN-SS-0.0-0.5	SL-127-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SB-4.0-5.0
Sample Date		05/31/2011	06/21/2011	06/21/2011	06/01/2011	06/01/2011	06/01/2011	06/29/2011
SDG		DE169	DE185	DE185	DE170	DE170	DE170	DE191
Start Depth		0	4	9	0	0	0	4
End Depth		0.5	5	10	0.5	0.5	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	2.9	1.9	1.1 J Z	--	--	--	--
Fluoride	mg/kg	2.2 J Q	6.1 J Q	3.8 J Q	1.4 J Q	1.0 UJ Q	1.3 J Q	2.6 J Q
Cyanide	mg/kg	0.55 U	0.56 U	0.53 U	--	--	--	--
Aluminum	mg/kg	25200	29000	19600	15300	10300	15200	26100
Iron	mg/kg	30200	32500	23500	19200	12800	19300	26000
Lead	mg/kg	13	10.9 J E, A	8.40 J E, A	23.5	20.7	13.6	7.59
Lithium	mg/kg	21.5	25.7	23.3	18.8	8.3	15.2	40.3
Magnesium	mg/kg	6330	6870	4310	4020	2200	4140	5190
Manganese	mg/kg	499 J E	341	423	247 J E	223 J E	273 J E	198
Mercury	mg/kg	0.163	0.0142 J Z	0.0082 J Z	0.134 J E, Q	0.0287 J E, Q, Z	0.0907 J E, Q, Z	0.112 U
Molybdenum	mg/kg	0.633	0.417 J E, Q	0.550 J E, Q	0.872 J E, Q	0.618 J E, Q	0.544 J E, Q	0.412
Nickel	mg/kg	20.1 J E, Q	31.2 J E, Q, A	17.4 J E, Q, A	20.1 J Q, E	15.6 J Q, E	15.8 J Q, E	19.5
Potassium	mg/kg	5400 J E	3060 J Q	2450 J Q	3950	1760	3190	2030
Silver	mg/kg	0.0469 J Z	0.0658 J Q, E, Z	0.0554 J Q, E, Z	0.0751 J Q, Z	0.0481 J Q, Z	0.0611 J Q, Z	0.0548 J Z
Sodium	mg/kg	82.0 J Z	174	122	82.5 J Z	168	115	95.8 J Z
Strontium	mg/kg	30.6	33.4	17.8	26.9	33.8	19.8	26.3
Thallium	mg/kg	0.312	0.418 J Q, E	0.335 J Q, E	0.357 J Q	0.238 J Q	0.351 J Q	0.291
Tin	mg/kg	11.0 U B	11.3 U B	10.4 U B	10.5 U B	9.88 U B	11.0 U B	11.0 U B
Titanium	mg/kg	1170	1020	988	1130	554	1230	1250
Antimony	mg/kg	0.269 J Q	0.160 J Q, Z	0.146 J Q, Z	0.161 J Q, E, Z	0.148 J Q, E, Z	0.0989 J Q, E, Z	0.223 U
Arsenic	mg/kg	5.18 J Q	8.82 J E, A	7.98 J E, A	6.21 J Q	8.81 J Q	4.97 J Q	15.1
Beryllium	mg/kg	0.693	0.997 J E, Q	0.851 J E, Q	0.733 J Q	0.526 J Q	0.712 J Q	0.903
Barium	mg/kg	133	177 J E, A	100 J E, A	143 J E	118 J E	193 J E	121
Boron	mg/kg	5.51 U	12.9	9.44	5.36 U	4.89 U	6.77	4.36 J Z
Cadmium	mg/kg	0.542	0.444 J Q, E	0.195 J Q, E	0.880 J Q, E	0.359 J Q, E	0.153 J Q, E	0.0588 J Z
Chromium	mg/kg	26.2 J Q, A	33.7 J E	23.2 J E	27.0 J Q, E	23.2 J Q, E	22.7 J Q, E	29.2
Cobalt	mg/kg	9.98	12.7 J E, Q, A	8.89 J E, Q, A	8.27 J Q, E	7.81 J Q, E	9.27 J Q, E	12.4
Copper	mg/kg	17.2	19.4 J E, Q	13.2 J E, Q	36.5 J Q	14.9 J Q	14.7 J Q	14
Vanadium	mg/kg	45.8 J Q, A	60.6 J E	45.2 J E	47.9 J A	46.5 J A	49.7 J A	64.5
Zinc	mg/kg	82.7	86.5 J E	63.5 J E	141	96.6	68.1	58.9
Zirconium	mg/kg	3.41 J Z	2.03 J Z	3.00 J Z	2.73 J Z	0.949 J Z	1.72 J Z	3.74 J Z
Calcium	mg/kg	5500 J E	6230	3670	3310	3900	2740	3370
Phosphorus	mg/kg	397	342	374	422 J Q	266 J Q	361 J Q	233
Selenium	mg/kg	0.159 J Z	0.0733 J Z	0.422 U	0.399 J Z	0.186 J Z	0.167 J Z	0.446 U
Chromium VI	mg/kg	0.42 J Z	0.46 J Z	0.31 J Z	0.34 J Z	1.0 U	0.54 J Z	0.45 J Z
Perchlorate (314.0)	ug/kg	33.1 U	34.4 U	32.0 U	32.2 U	30.5 U	33.5 U	34.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	9.3	12.7	6.2	6.8	1.7	10.5	13.7
pH	pH unit	7.08	7.96	8.1	6.68	7.09	6.81	7.25

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-129-SA5DN-SS-0.0-0.5	SL-129-SA5DN-SB-2.5-3.5	SL-130-SA5DN-SS-0.0-0.5	SL-130-SA5DN-SB-4.0-5.0	SL-131-SA5DN-SS-0.0-0.5	SL-131-SA5DN-SB-3.5-4.5	SL-132-SA5DN-SS-0.0-0.5
Sample Date		06/01/2011	06/29/2011	06/01/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011
SDG		DE170	DE191	DE170	DE162	DE171	DE190	DE171
Start Depth		0	2.5	0	4	0	3.5	0
End Depth		0.5	3.5	0.5	5	0.5	4.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	2.8
Fluoride	mg/kg	1.3 J Q	1.8 J Q	1.6 J Q	3.5	1.0 UJ Q	3.0 J Q	1.5 J Q
Cyanide	mg/kg	--	--	--	--	--	--	0.49 U
Aluminum	mg/kg	16500	20100	15500	20300 J A	16200	24300	13900
Iron	mg/kg	22300	23100	20100	24600	20500	24200	16900
Lead	mg/kg	18	8.2	18	9.39 J Q, E, A	17.0 J E, Q, A	5.85 J E, Q, A	13.5 J E, Q, A
Lithium	mg/kg	24.7	26.4	21.6	25.5	22.2	31.1	20
Magnesium	mg/kg	4800	5410	4230	5640 J A	4420	4810	3610
Manganese	mg/kg	292 J E	361	273 J E	369 J A	301	186	254
Mercury	mg/kg	0.0788 J E, Q, Z	0.102 U	1.18 J E, Q	0.0140 J Z	0.102 U	0.112 U	0.0999 U F
Molybdenum	mg/kg	0.757 J E, Q	0.402	0.849 J E, Q	0.425	0.851 J E, Q	0.289	0.913 J E, Q
Nickel	mg/kg	22.7 J Q, E	27.1	20.6 J Q, E	22.6 J Q, E, A	19.4 J E, Q, A	15.2 J Q, A	23.2 J E, Q, A
Potassium	mg/kg	3720	2090	3340	1950 J Q	3770	1750 J Q	3000
Silver	mg/kg	0.851 J Q	0.0387 J Z	0.0898 J Q, Z	0.0609 J Z	0.294 J Q	0.0602 J Z	0.237 J Q
Sodium	mg/kg	81.9 J Z	110	86.1 J Z	213	96.6 J Z	153	84.8 J Z
Strontium	mg/kg	23.7	19.4	23.1	23.9 J A	23.3	24.3	19.3
Thallium	mg/kg	0.361 J Q	0.25	0.350 J Q	0.244	0.285 J Q, E	0.228	0.361 J Q, E
Tin	mg/kg	10.5 U B	10.4 U B	10.1 U B	10.9 U B	10.3 U B	11.1 U B	10.2 U B
Titanium	mg/kg	1120	1140	1140	1250	1350	1160	1250
Antimony	mg/kg	0.128 J Q, E, Z	0.206 U B	0.114 J Q, E, Z	0.139 J Q, Z	0.288 J Q	0.215 UJ Q	0.211 J Q
Arsenic	mg/kg	9.27 J Q	63	12.5 J Q	20.1 J E, A	11.2 J E, A	10.7	11.0 J E, A
Beryllium	mg/kg	0.779 J Q	0.71	0.718 J Q	0.863 J Q, E	0.670 J E	0.694	0.731 J E
Barium	mg/kg	135 J E	110	130 J E	101 J E, A	124 J E, A	89.1 J A	149 J E, A
Boron	mg/kg	27.5	3.57 J Z	7.34	5.46 U	5.15 U	4.95 J Z	7.53
Cadmium	mg/kg	2.89 J Q, E	0.154	0.763 J Q, E	0.0612 J Z	0.608 J Q	0.0645 J Z	0.557 J Q
Chromium	mg/kg	29.5 J Q, E	25.8	30.5 J Q, E	35.9 J Q, E, A	25.1 J E, Q	26.2 J Q, A	29.1 J E, Q
Cobalt	mg/kg	8.26 J Q, E	8.4	8.32 J Q, E	11.1 J E, A	7.84 J E, Q, A	6.73 J A	8.09 J E, Q, A
Copper	mg/kg	21.7 J Q	10.7	17.1 J Q	11.0 J Q, E, A	18.0 J E, Q, A	8.07 J A	18.5 J E, Q, A
Vanadium	mg/kg	48.1 J A	53.1	46.8 J A	54.4 J E, A	42.5 J E	49.4 J A	50.0 J E
Zinc	mg/kg	99.9	63.3	133	55.9 J A	156 J E, A	45.6	101 J E, A
Zirconium	mg/kg	2.60 J Z	2.93 J Z	2.99 J Z	4.74 J Z	4.57 J Z	3.49 J Z	3.64 J Z
Calcium	mg/kg	3340	3150	3060	3390 J A	3650	2820	3090
Phosphorus	mg/kg	433 J Q	350	476 J Q	245	482	215 J Q, E	390
Selenium	mg/kg	0.198 J Z	0.119 J Z	0.184 J Z	0.256 J Z	0.106 J Q, Z	0.0962 J Z	0.157 J Q, Z
Chromium VI	mg/kg	1.4	0.38 J Z	0.55 J Z	1.7	0.71 J Z	0.66 J Z	1.6
Perchlorate (314.0)	ug/kg	32.1 U	31.8 U	31.3 U	34.1 U	31.2 U	33.8 U	30.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.1 U
Percent Moisture	%	6.5	5.6	4.2	11.9	3.8	11.3	2.1
pH	pH unit	6.83	6.46	6.16	6.59	7.28	6.75	6.57

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-132-SA5DN-SB-4.0-5.0	SL-133-SA5DN-SS-0.0-0.5	SL-133-SA5DN-SB-4.0-5.0	SL-134-SA5DN-SS-0.0-0.5	SL-135-SA5DN-SS-0.0-0.5	SL-136-SA5DN-SS-0.0-0.5	SL-137-SA5DN-SS-0.0-0.5
Sample Date		06/28/2011	06/02/2011	05/25/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DE190	DE171	DE162	DE171	DE171	DE171	DE171
Start Depth		4	0	4	0	0	0	0
End Depth		5	0.5	5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	2.2	0.95 J Z	1.8	1.9	3.5	1.5	1.6
Fluoride	mg/kg	3.7 J Q	1.2 J Q	2.3	2.7 J Q	1.5 J Q	2.5 J Q	1.8 J Q
Cyanide	mg/kg	0.54 U	0.49 U	0.56 U	0.50 U	0.51 U	0.50 U	0.49 U
Aluminum	mg/kg	20900	16100	24300 J A	16800	15800	18600	17100
Iron	mg/kg	25700	20600	26100	22200	20800	22500	21000
Lead	mg/kg	10.1 J E, Q, A	11.9 J E, Q, A	7.02 J Q, E, A	15.4 J E, Q, A	21.2 J E, Q, A	17.5 J E, Q, A	15.9 J E, Q, A
Lithium	mg/kg	35.8	24.9	38.1	27.3	28.5	29	28.1
Magnesium	mg/kg	5410	4600	5420 J A	5330	5370	5230	5070
Manganese	mg/kg	373	318	276 J A	310	298	339	317
Mercury	mg/kg	0.108 U	0.100 U F	0.112 U	0.153	0.191	0.101 U F	0.284
Molybdenum	mg/kg	0.62	0.785 J E, Q	0.415	0.702 J E, Q	0.802 J E, Q	0.960 J E, Q	0.823 J E, Q
Nickel	mg/kg	28.7 J Q, A	22.0 J E, Q, A	18.5 J Q, E, A	29.2 J E, Q, A	31.5 J E, Q, A	30.1 J E, Q, A	28.7 J E, Q, A
Potassium	mg/kg	1520 J Q	3620	1870 J Q	2850	3130	3400	3170
Silver	mg/kg	0.133	0.133 J Q	0.0901 J Z	0.107 J Q	0.128 J Q	0.0894 J Q, Z	0.0955 J Q, Z
Sodium	mg/kg	154	86.4 J Z	146	137	160	139	117
Strontium	mg/kg	25.7	21.1	28.0 J A	22.3	22.5	23.7	21.5
Thallium	mg/kg	0.354	0.311 J Q, E	0.257	0.385 J Q, E	0.441 J Q, E	0.431 J Q, E	0.371 J Q, E
Tin	mg/kg	11.2 U B	10.3 U B	10.8 U B	10.1 U B	10.1 U B	10.1 U B	10.0 U B
Titanium	mg/kg	1220	1310	1250	1380	1380	1450	1380
Antimony	mg/kg	0.223 UJ B, Q	0.548 J Q	0.226 UJ Q	0.287 J Q	0.417 J Q	0.297 J Q	0.317 J Q
Arsenic	mg/kg	19.8	23.0 J E, A	14.8 J E, A	43.7 J E, A	42.2 J E, A	30.8 J E, A	40.4 J E, A
Beryllium	mg/kg	0.99	0.753 J E	0.785 J Q, E	0.924 J E	0.943 J E	0.987 J E	0.974 J E
Barium	mg/kg	148 J A	124 J E, A	105 J E, A	139 J E, A	147 J E, A	170 J E, A	140 J E, A
Boron	mg/kg	4.67 J Z	8.32	5.39 U	7.85	7.85	8.56	7.98
Cadmium	mg/kg	0.168	0.451 J Q	0.115	0.474 J Q	0.419 J Q	0.456 J Q	0.620 J Q
Chromium	mg/kg	35.9 J Q, A	27.8 J E, Q	25.5 J Q, E, A	34.4 J E, Q	37.6 J E, Q	39.4 J E, Q	34.0 J E, Q
Cobalt	mg/kg	13.4 J A	8.09 J E, Q, A	6.96 J E, A	9.62 J E, Q, A	10.6 J E, Q, A	10.6 J E, Q, A	9.79 J E, Q, A
Copper	mg/kg	14.8 J A	16.0 J E, Q, A	9.83 J Q, E, A	19.3 J E, Q, A	36.6 J E, Q, A	23.0 J E, Q, A	20.8 J E, Q, A
Vanadium	mg/kg	78.4 J A	46.7 J E	44.2 J E, A	56.0 J E	56.1 J E	63.0 J E	53.3 J E
Zinc	mg/kg	77.6	81.9 J E, A	51.4 J A	98.6 J E, A	144 J E, A	109 J E, A	112 J E, A
Zirconium	mg/kg	2.99 J Z	4.35 J Z	5.54	4.88 J Z	5.01 J Z	5.57	5.04
Calcium	mg/kg	3330	3430	3420 J A	3930	4640	4010	4140
Phosphorus	mg/kg	296 J Q, E	483	287	442	467	493	433
Selenium	mg/kg	0.0846 J Z	0.128 J Q, Z	0.0545 J Z	0.187 J Q, Z	0.144 J Q, Z	0.237 J Q, Z	0.134 J Q, Z
Chromium VI	mg/kg	0.49 J Z	0.37 J Z	1.1 U B	0.42 J Z	1.3	0.80 J Z	0.53 J Z
Perchlorate (314.0)	ug/kg	33.5 U	30.8 U	33.9 U	31.1 U	30.6 U	30.6 U	30.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.4	2.7	11.6	3.4	2.1	1.9	2.3
pH	pH unit	7.47	7.33	6.98	7.99	8.03	7.99	8.34

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-138-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SB-2.0-3.0	SL-140-SA5DN-SS-0.0-0.5	SL-140-SA5DN-SB-2.0-3.0	SL-141-SA5DN-SS-0.0-0.5	SL-141-SA5DN-SB-4.0-5.0
Sample Date		06/02/2011	06/02/2011	05/24/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011
SDG		DE171	DE171	DE161	DE171	DE162	DE171	DE190
Start Depth		0	0	2	0	2	0	4
End Depth		0.5	0.5	3	0.5	3	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	2.4	14.4	1.3 J Z	2	1.5 J Z	6.5	3.3
Fluoride	mg/kg	2.2 J Q	1.0 UJ Q	2.3 J Q	1.4 J Q	1.6	1.6 J Q	4.1 J Q
Cyanide	mg/kg	0.51 U	0.50 U	0.56 U	0.51 U	0.52 U	0.51 U	0.54 U
Aluminum	mg/kg	16800	17300	23200 J A	15700	23500 J A	20100	21800
Iron	mg/kg	24100	19400	26100	28700	27000	25300	29200
Lead	mg/kg	10.3 J E, Q, A	10.4 J E, Q, A	8.13 J Q, E, A	21.6 J E, Q, A	9.33 J Q, E, A	23.8 J E, Q, A	7.45 J E, Q, A
Lithium	mg/kg	32.6	22.7	38.1	25.3	35.2	30.9	28.3
Magnesium	mg/kg	5570	4030	6320 J A	5130	5170 J A	5850	5850
Manganese	mg/kg	344	340	428 J A	358	246 J A	386	312
Mercury	mg/kg	0.0985 UJ F, FD	0.100 U F	0.0072 J Z	0.0992 U F	0.0042 J Z	0.127	0.0217 J Z
Molybdenum	mg/kg	0.843 J E, Q	1.02 J E, Q	0.385	0.933 J E, Q	0.516	1.10 J E, Q	1.86
Nickel	mg/kg	26.1 J E, Q, A	22.1 J E, Q, A	18.9 J Q, E, A	24.1 J E, Q, A	16.4 J Q, E, A	30.1 J E, Q, A	25.2 J Q, A
Potassium	mg/kg	3180	3700	2230 J Q	3340	1940 J Q	4380	2790 J Q
Silver	mg/kg	0.0512 J Q, Z	0.0542 J Q, Z	0.0829 J Z	0.138 J Q	0.0843 J Z	1.18 J Q	0.361
Sodium	mg/kg	114	139	131	91.7 J Z	122	132	446
Strontium	mg/kg	18.9	23.3	26.9 J A	21	27.3 J A	30.2	26.1
Thallium	mg/kg	0.388 J Q, E	0.403 J Q, E	0.23	0.369 J Q, E	0.282	0.469 J Q, E	0.427
Tin	mg/kg	9.98 U B	9.92 U B	10.9 U B	13.5	10.3 U B	10.6 U B	11.0 U B
Titanium	mg/kg	1480	1400	1430	1250	1330	1520	1350
Antimony	mg/kg	0.237 J Q	0.239 J Q	0.0795 J Q, Z	0.253 J Q	0.0981 J Q, Z	0.365 J Q	0.220 UJ Q
Arsenic	mg/kg	33.9 J E, A	12.6 J E, A	12.3 J E, A	19.2 J E, A	14.9 J E, A	15.0 J E, A	9.23
Beryllium	mg/kg	0.923 J E	0.866 J E	0.881 J Q, E	0.796 J E	0.892 J Q, E	0.999 J E	0.735
Barium	mg/kg	153 J E, A	173 J E, A	115 J E, A	138 J E, A	123 J E, A	186 J E, A	131 J A
Boron	mg/kg	4.99 U	8.08	5.47 U	9.96	5.14 U	11.9	4.73 J Z
Cadmium	mg/kg	0.383 J Q	0.341 J Q	0.105 J Z	0.440 J Q	0.0729 J Z	1.04 J Q	0.2
Chromium	mg/kg	28.7 J E, Q	29.1 J E, Q	28.8 J Q, E, A	30.5 J E, Q	27.4 J Q, E, A	38.0 J E, Q	36.1 J Q, A
Cobalt	mg/kg	11.4 J E, Q, A	10.5 J E, Q, A	7.94 J E, A	9.60 J E, Q, A	11.8 J E, A	11.7 J E, Q, A	10.7 J A
Copper	mg/kg	17.0 J E, Q, A	18.1 J E, Q, A	9.94 J Q, E, A	18.3 J E, Q, A	11.2 J Q, E, A	34.5 J E, Q, A	17.5 J A
Vanadium	mg/kg	51.3 J E	48.4 J E	48.6 J E, A	50.5 J E	52.4 J E, A	60.3 J E	56.0 J A
Zinc	mg/kg	95.2 J E, A	74.5 J E, A	52.2 J A	90.7 J E, A	47.7 J A	169 J E, A	80.6
Zirconium	mg/kg	5.95	4.47 J Z	5.91	4.84 J Z	5.3	4.86 J Z	4.30 J Z
Calcium	mg/kg	3740	3040	3710 J A	3180	3160 J A	5460	3750
Phosphorus	mg/kg	499	375	341	418	199	542	355 J Q, E
Selenium	mg/kg	0.156 J Q, Z	0.166 J Q, Z	0.127 J Z	0.136 J Q, Z	0.0639 J Z	0.271 J Q, Z	0.133 J Z
Chromium VI	mg/kg	0.39 J Z	0.81 J Z	1.1 U B	0.44 J Z	1.1 U	0.72 J Z	0.46 J Z
Perchlorate (314.0)	ug/kg	30.8 U	30.4 U	33.5 U	30.6 U	32.1 U	32.1 U	32.9 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	2.7	1.2	10.4	1.9	6.4	6.4	8.9
pH	pH unit	7.59	6.32	6.23	6.75	6.66	7.47	7.98

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-142-SA5DN-SS-0.0-0.5	SL-142-SA5DN-SB-2.0-3.0	SL-143-SA5DN-SS-0.0-0.5	SL-143-SA5DN-SB-4.0-5.0	SL-144-SA5DN-SS-0.0-0.5	SL-144-SA5DN-SB-2.0-3.0	SL-145-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011	05/25/2011	06/02/2011
SDG		DE171	DE162	DE171	DE190	DE171	DE162	DE171
Start Depth		0	2	0	4	0	2	0
End Depth		0.5	3	0.5	5	0.5	3	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 UJ Q	1.6	1.2 J Q	13.2 J Q	1.5 J Q	8.3 J FD	1.9 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	14200	20500 J A	21500	35400	19300	19900 J A	15400
Iron	mg/kg	20600	28700	25900	41600	23100	41200	18700
Lead	mg/kg	17.4 J E, Q, A	13.5 J Q, E, A	14.2 J E, Q, A	14.6 J E, Q, A	10.7 J E, Q, A	9.30 J Q, E, A	11.3 J E, Q, A
Lithium	mg/kg	18.3	37	29.1	48.1	24.1	44.1	19.9
Magnesium	mg/kg	3710	6760 J A	5590	8470	4600	7180 J A	3980
Manganese	mg/kg	282	323 J A	412	279	420	443 J A	360
Mercury	mg/kg	0.103 U F	0.102 U	0.0822 J Z	0.0139 J Z	0.0984 U F	0.0041 J FD, Z	0.102 U
Molybdenum	mg/kg	1.27 J E, Q	0.729	0.931 J E, Q	0.509	0.952 J E, Q	0.475	0.981 J E, Q
Nickel	mg/kg	22.2 J E, Q, A	33.6 J Q, E, A	19.3 J E, Q, A	32.6 J Q, A	21.5 J E, Q, A	17.3 J Q, E, A	20.0 J E, Q, A
Potassium	mg/kg	3170	2530 J Q	4960	3220 J Q	4560	3420 J Q	3980
Silver	mg/kg	0.385 J Q	0.0496 J Z	0.186 J Q	0.172	0.211 J Q	0.0284 J FD, Z	0.0583 J Q, Z
Sodium	mg/kg	75.9 J Z	352	119	712	88.5 J Z	400 J FD	81.0 J Z
Strontium	mg/kg	19.7	128 J A	29.6	46.8	27	33.9 J A	23.3
Thallium	mg/kg	0.325 J Q, E	0.469	0.310 J Q, E	0.586	0.394 J Q, E	0.394	0.369 J Q, E
Tin	mg/kg	10.0 U B	10.7 U B	10.5 U B	11.0 U B	10.4 U B	10.7 U B	10.3 U B
Titanium	mg/kg	1210	1440	1540	1490	1520	1830	1340
Antimony	mg/kg	0.239 J Q	0.247 J Q	0.284 J Q	0.223 UJ B, Q	0.249 J Q	0.117 J Q, Z	0.248 J Q
Arsenic	mg/kg	9.99 J E, A	20.8 J E, A	9.19 J E, A	14.5	9.95 J E, A	12.1 J E, A	10.5 J E, A
Beryllium	mg/kg	0.706 J E	1.17 J Q, E	0.655 J E	1.24	0.830 J E	0.842 J Q, E	0.733 J E
Barium	mg/kg	137 J E, A	256 J E, A	128 J E, A	171 J A	162 J E, A	165 J E, A	149 J E, A
Boron	mg/kg	8.72	5.33 U	5.25 U	6.68	5.18 U	26.8 U	8.5
Cadmium	mg/kg	0.576 J Q	0.166	0.593 J Q	0.116	0.307 J Q	0.0830 J Z	0.426 J Q
Chromium	mg/kg	30.1 J E, Q	37.3 J Q, E, A	26.4 J E, Q	46.0 J Q, A	27.9 J E, Q	23.1 J Q, E, A	27.2 J E, Q
Cobalt	mg/kg	9.72 J E, Q, A	19.8 J E, A	8.27 J E, Q, A	9.96 J A	9.47 J E, Q, A	13.9 J FD, E, A	8.84 J E, Q, A
Copper	mg/kg	23.6 J E, Q, A	27.2 J Q, E, A	19.0 J E, Q, A	30.2 J A	18.7 J E, Q, A	18.7 J Q, E, A	17.4 J E, Q, A
Vanadium	mg/kg	46.5 J E	66.9 J E, A	42.6 J E	96.0 J A	48.5 J E	45.7 J E, A	48.7 J E
Zinc	mg/kg	92.0 J E, A	114 J A	97.2 J E, A	112	74.4 J E, A	98.9 J A	76.1 J E, A
Zirconium	mg/kg	3.68 J Z	7.07	6.72	5.49	5.33	6.83	4.16 J Z
Calcium	mg/kg	2960	5070 J A	4620	11400	3370	5500 J A	3150
Phosphorus	mg/kg	409	635	502	452 J Q, E	375	706	379
Selenium	mg/kg	0.167 J Q, Z	0.319 J Z	0.172 J Q, Z	0.125 J Z	0.205 J Q, Z	0.104 J Z	0.165 J Q, Z
Chromium VI	mg/kg	0.51 J Z	1.1 U	0.43 J Z	0.64 J Z	0.39 J Z	1.1 UJ B, FD	0.94 J Z
Perchlorate (314.0)	ug/kg	31.2 U	32.9 U	31.5 U	34.2 U	31.1 U	33.1 U	30.9 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.2 U	--	--
Percent Moisture	%	3.8	8.9	4.8	12.2	3.4	9.3	2.8
pH	pH unit	6.92	7.18	6.92	7.95	7	7.89	7.05

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-145-SA5DN-SB-2.0-3.0	SL-146-SA5DN-SB-2.0-3.0	SL-148-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SB-4.0-5.0	SL-150-SA5DN-SS-0.0-0.5	SL-150-SA5DN-SB-4.0-5.0
Sample Date		05/24/2011	05/24/2011	06/01/2011	06/02/2011	07/11/2011	06/02/2011	05/24/2011
SDG		DE161	DE161	DE170	DE171	DE197	DE171	DE161
Start Depth		2	2	0	0	4	0	4
End Depth		3	3	0.5	0.5	5	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.8 J Q	2.4 J Q	1.8 J Q	1.4 J Q	3.0 J Q	1.6 J Q	2.1 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	23200 J A	21200 J A	15700	21700	26300	18900	19700 J A
Iron	mg/kg	26900	29900	19600	24500	31000 J E	33700	29900
Lead	mg/kg	6.42 J Q, E, A	7.90 J Q, E, A	13.4	17.2 J E, Q, A	9.93 J E	18.0 J E, Q, A	5.23 J Q, E, A
Lithium	mg/kg	36.3	33.1	17	20.7	35	24	41.1
Magnesium	mg/kg	6150 J A	7070 J A	4040	5330	6740	5130	6940 J A
Manganese	mg/kg	438 J A	311 J A	346 J E	447	457 J E	482	356 J A
Mercury	mg/kg	0.100 U	0.0051 J Z	0.0142 J E, Q, Z	0.101 U	0.109 U	0.103 U F	0.105 U
Molybdenum	mg/kg	0.537	0.103 J Z	0.690 J E, Q	1.14 J E, Q	0.675 J E, Q	1.33 J E, Q	0.544
Nickel	mg/kg	17.3 J Q, E, A	24.3 J Q, E, A	21.3 J Q, E	28.0 J E, Q, A	24.4 J Q, E	26.3 J E, Q, A	22.5 J Q, E, A
Potassium	mg/kg	2700 J Q	2490 J Q	3890	5770	3450	5050	4150 J Q
Silver	mg/kg	0.0523 J Z	0.552	0.0571 J Q, Z	0.0431 J Q, Z	0.0646 J Z	0.0762 J Q, Z	0.105 U
Sodium	mg/kg	109	129	66.5 J Z	75.9 J Z	127	86.5 J Z	171
Strontium	mg/kg	24.8 J A	28.4 J A	21.1	29.7	33.1	38.3	25.5 J A
Thallium	mg/kg	0.293	0.254	0.367 J Q	0.492 J Q, E	0.305	0.427 J Q, E	0.377
Tin	mg/kg	10.6 U B	11.2 U B	10.4 U B	10.7 U B	10.8 U B	10.6 U B	10.4 U B
Titanium	mg/kg	1550	1610	1140	1520	1210	1520	1680
Antimony	mg/kg	0.0743 J Q, Z	0.234 UJ Q	0.143 J Q, E, Z	0.331 J Q	0.337 J E, Q	0.516 J Q	0.103 J Q, Z
Arsenic	mg/kg	10.6 J E, A	15.1 J E, A	7.08 J Q	9.13 J E, A	13.1	10.5 J E, A	7.91 J E, A
Beryllium	mg/kg	0.674 J Q, E	0.998 J Q, E	0.747 J Q	0.940 J E	0.978	0.845 J E	0.503 J Q, E
Barium	mg/kg	119 J E, A	170 J E, A	145 J E	191 J E, A	149	179 J E, A	127 J E, A
Boron	mg/kg	5.30 U	5.62 U	8.25	11.8	7.53 J Z	13	5.21 U
Cadmium	mg/kg	0.114	0.0604 J Z	0.422 J Q, E	0.604 J Q	0.262 J Q	0.503 J Q	0.0932 J Z
Chromium	mg/kg	24.6 J Q, E, A	47.5 J Q, E, A	29.8 J Q, E	37.8 J E, Q	38.1 J Q	34.6 J E, Q	28.6 J Q, E, A
Cobalt	mg/kg	7.60 J E, A	10.0 J E, A	9.83 J Q, E	13.3 J E, Q, A	11	11.7 J E, Q, A	9.22 J E, A
Copper	mg/kg	9.77 J Q, E, A	20.1 J Q, E, A	16.2 J Q	23.6 J E, Q, A	12.3 J E	28.3 J E, Q, A	15.8 J Q, E, A
Vanadium	mg/kg	46.0 J E, A	51.9 J E, A	51.7 J A	67.8 J E	72.4 J Q, E	59.3 J E	37.8 J E, A
Zinc	mg/kg	55.0 J A	74.5 J A	75.8	98.0 J E, A	65.9 J A	101 J E, A	63.8 J A
Zirconium	mg/kg	6.18	5.76	2.99 J Z	5.49	6.99	5.62	6.41
Calcium	mg/kg	3360 J A	5150 J A	3170	4240	4770 J E	6500	4130 J A
Phosphorus	mg/kg	372	383	379 J Q	390	277 J E	502	490
Selenium	mg/kg	0.135 J Z	0.0909 J Z	0.157 J Z	0.222 J Q, Z	0.133 J Z	0.281 J Q, Z	0.126 J Z
Chromium VI	mg/kg	1.1 U B	1.2 U B	1.0 U	0.45 J Z	0.49 J Z	0.37 J Z	1.1 U B
Perchlorate (314.0)	ug/kg	31.8 U	35.0 U	31.5 U	32.3 U	32.9 U	32.1 U	32.5 U
Perchlorate (6850)	ug/kg	--	--	3.3 J Z	5.4 U	--	--	--
Percent Moisture	%	5.7	14.4	4.7	7.2	8.9	6.6	7.7
pH	pH unit	6.18	7.04	6.57	6.99	7.38	7.56	7.97

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-151-SA5DN-SS-0.0-0.5	SL-152-SA5DN-SS-0.0-0.5	SL-152-SA5DN-SB-2.5-3.5	SL-153-SA5DN-SS-0.0-0.5	SL-153-SA5DN-SB-4.0-5.0	SL-153-SA5DN-SB-7.0-8.0	SL-154-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	06/03/2011	06/29/2011	06/03/2011	08/08/2011	08/08/2011	06/03/2011
SDG		DE171	DE173	DE191	DE173	DE219	DE219	DE173
Start Depth		0	0	2.5	0	4	7	0
End Depth		0.5	0.5	3.5	0.5	5	8	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 UJ Q	1.8 J Q	7.6 J Q	2.9 J Q	1.2 R E, Q	7.9 J E, Q	1.9 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	26000	19200	27700	22900	25300	30500	25400
Iron	mg/kg	36600	32800	40900	25400	30700	40600	29000
Lead	mg/kg	13.1 J E, Q, A	12.4 J E, Q	16.2	7.70 J E, Q	12.0 J Q	14.8 J Q	11.8 J E, Q
Lithium	mg/kg	39	48.2	52.6	25.1	26.8	64.8	25.3
Magnesium	mg/kg	6930	10200	8880	4680	6780	8800	5780
Manganese	mg/kg	454	510	277	388	522 J Q, E	427 J Q, E	426
Mercury	mg/kg	0.101 U F	0.104 U B	0.0114 J Z	0.0496 J Z	0.107 U	0.107 U	0.108 U
Molybdenum	mg/kg	1.15 J E, Q	1.26 J E, Q	0.518	0.716 J E, Q	0.815	0.657	0.888 J E, Q
Nickel	mg/kg	22.1 J E, Q, A	22.6 J Q, A	33	16.5 J Q, A	29.2 J Q, *#	40.2 J Q, *#	21.4 J Q, A
Potassium	mg/kg	5210	4070	2310	4220	5180 J Q	3640 J Q	5190
Silver	mg/kg	0.0497 J Q, Z	0.147 J Q	0.0718 J Z	0.0737 J Q, Z	0.0524 J Z	0.152	0.0571 J Q, Z
Sodium	mg/kg	106	239	373	87.4 J Z	145	601	94.4 J Z
Strontium	mg/kg	25.4	38.5	44.9	31.1	30.2	38.9	34.2
Thallium	mg/kg	0.382 J Q, E	0.422 J Q	0.324	0.304 J Q	0.509	0.401	0.403 J Q
Tin	mg/kg	10.2 U B	10.5 U B	11.1 U B	10.6 U B	11.5 U B	11.4 U B	10.8 U B
Titanium	mg/kg	1660	1480	1100	1470	1460	1730	1530
Antimony	mg/kg	0.155 J Q, Z	0.212 UJ B, Q	0.213 U B	0.212 UJ B, Q	0.230 UJ B, Q	0.227 UJ B, Q	0.213 UJ B, Q
Arsenic	mg/kg	8.17 J E, A	15.0 J E, Q	12.7	7.54 J E, Q	8.92 J Q	12.7 J Q	9.19 J E, Q
Beryllium	mg/kg	0.953 J E	1.32 J E, Q	1.15	0.759 J E, Q	1.08	1.39	0.992 J E, Q
Barium	mg/kg	138 J E, A	151 J E, A	165	134 J E, A	177	190	188 J E, A
Boron	mg/kg	11.9	14.0 J Z	7.95	5.29 U	5.35 J Z	5.68 U B	5.39 U
Cadmium	mg/kg	0.176 J Q	0.284 J Q	0.116	0.268 J Q	0.321	0.231	0.383 J Q
Chromium	mg/kg	27.5 J E, Q	36.5 J Q	42.1	24.9 J Q	41.0 J E, *#	48.7 J E, *#	33.5 J Q
Cobalt	mg/kg	9.56 J E, Q, A	15.4 J E, Q	15	8.87 J E, Q	15.3 J E	14.4 J E	12.9 J E, Q
Copper	mg/kg	19.4 J E, Q, A	26.5 J Q	28.4	14.3 J Q	23.1 J E	28.2 J E	21.2 J Q
Vanadium	mg/kg	50.2 J E	56.3	73.3	42.9	75.9 J E, *#	77.2 J E, *#	59.7
Zinc	mg/kg	95.5 J E, A	121	106	61	97.2 J E, Q	110 J E, Q	90.4
Zirconium	mg/kg	5.92	6.75	7.48	5.5	5.34 J Z	6.85	6.6
Calcium	mg/kg	4350	17800	13800	3660	3740	6140	4730
Phosphorus	mg/kg	923	516	508	303	423 J Q	805 J Q	429
Selenium	mg/kg	0.233 J Q, Z	0.369 J Q, Z	0.424 J Z	0.176 J Q, Z	0.236 J Q, E, Z	0.376 J Q, E, Z	0.257 J Q, Z
Chromium VI	mg/kg	0.56 J Z	0.65 J Z	0.43 J Z	1.1 U	0.49 J Z	0.26 J Z	0.29 J Z
Perchlorate (314.0)	ug/kg	31.2 U	32.2 U	33.3 U	32.4 U	34.5 U	34.4 U	33.0 U
Perchlorate (6850)	ug/kg	--	--	5.5 U	--	--	--	--
Percent Moisture	%	3.7	6.8	9.8	7.3	13.1	12.9	9
pH	pH unit	6.69	8.34	8.24	7.73	6.68	8.37	7.29

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-154-SA5DN-SB-4.0-5.0	SL-154-SA5DN-SB-9.0-10.0	SL-155-SA5DN-SS-0.0-0.5	SL-155-SA5DN-SB-4.0-5.0	SL-155-SA5DN-SB-9.0-10.0	SL-156-SA5DN-SS-0.0-0.5	SL-156-SA5DN-SB-4.0-5.0
Sample Date		06/29/2011	06/29/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011
SDG		DE191	DE191	DE173	DE196	DE196	DE173	DE196
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.9 J Q	2.4 J Q	1.6 J Q	2.3 J Q	2.3 J Q	1.1 UJ Q	2.0 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	28800	26400	19800	28400	26700	18200	26500
Iron	mg/kg	31600	30100	27800	34100	32600	26400	31600
Lead	mg/kg	12	8.1	11.8 J E, Q	8.00 J A	7.91 J A	13.0 J E, Q	8.23 J A
Lithium	mg/kg	33.7	29.7	23.8	32.3	34.9	22.5	34.6
Magnesium	mg/kg	6040	6030	5850	7490	7530	5710	7910
Manganese	mg/kg	434	337	421	374 J E	410 J E	400	391 J E
Mercury	mg/kg	0.108 U	0.114 U	0.0998 UJ FD	0.107 U	0.110 U	0.106 U B	0.109 U
Molybdenum	mg/kg	0.711	0.481	0.903 J E, Q	0.608	0.335	0.971 J E, Q	0.536
Nickel	mg/kg	30.1	24.1	20.5 J Q, A	26.5 J A	23.2 J A	26.2 J Q, A	35.9 J A
Potassium	mg/kg	3410	2660	5630	4210	3930	5470	3470
Silver	mg/kg	0.139	0.0749 J Z	0.0436 J Q, Z	0.0460 J Z	0.0565 J Z	0.0398 J Q, Z	0.0407 J Z
Sodium	mg/kg	127	118	90.7 J Z	116	140	79.6 J Z	114
Strontium	mg/kg	30.4	30.2	27.6	32.3	32.3	27	28.6
Thallium	mg/kg	0.527	0.388	0.419 J Q	0.379	0.363	0.373 J Q	0.342
Tin	mg/kg	11.3 U B	11.1 U B	10.4 U B	11.5 U B	11.3 U B	10.8 U B	11.0 U B
Titanium	mg/kg	1310	1310	1500	1290	1370	1500	1300
Antimony	mg/kg	0.226 U B	0.224 U	0.203 UJ B, Q	0.170 J Q, E, Z	0.140 J Q, E, Z	0.221 UJ B, Q	0.196 J Q, E, Z
Arsenic	mg/kg	9.72	11.2	7.79 J E, Q	6.67 J Q	7.95 J Q	7.51 J E, Q	7.13 J Q
Beryllium	mg/kg	1.2	0.832	0.815 J E, Q	0.909	0.864	0.794 J E, Q	0.924
Barium	mg/kg	191	132	144 J E, A	131 J A	125 J A	146 J E, A	112 J A
Boron	mg/kg	6.64	5.66	5.18 U	5.60 J Z	5.82	5.41 U	5.47 J Z
Cadmium	mg/kg	0.165	0.0765 J Z	0.423 J Q	0.184	0.224	0.384 J Q	0.157
Chromium	mg/kg	36.9	33.5	33.0 J Q	36.0 J Q, A	33.1 J Q, A	38.9 J Q	40.4 J Q, A
Cobalt	mg/kg	13.5	7.76	12.0 J E, Q	10.5 J A	9.48 J A	12.8 J E, Q	11.0 J A
Copper	mg/kg	19.8	16.3	17.5 J Q	15.3 J A	15.3 J A	17.4 J Q	13.7 J A
Vanadium	mg/kg	76.7	64.5	55.3	59.4 J A	57.3 J A	60.4	58.3 J A
Zinc	mg/kg	91.8	66.5	87.7	71.8 J A	74.5 J A	92.7	69.6 J A
Zirconium	mg/kg	4.07 J Z	4.31 J Z	7.52	5.85	5.67	7.03	5.93
Calcium	mg/kg	3720	3640	4280	3930	4600	3700	3780
Phosphorus	mg/kg	297	236	530	363 J Q	485 J Q	587	377 J Q
Selenium	mg/kg	0.103 J Z	0.0807 J Z	0.247 J Q, Z	0.126 J Z	0.467 U	0.226 J Q, Z	0.129 J Z
Chromium VI	mg/kg	0.64 J Z	0.46 J Z	0.32 J FD, Z	0.74 J Z	0.34 J Z	1.1 U	0.67 J Z
Perchlorate (314.0)	ug/kg	34.2 U	35.0 U	31.4 U	34.4 U	35.4 U	33.4 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.3	14.3	4.4	12.7	15.2	10.3	13.2
pH	pH unit	6.78	7.1	7	7.52	7.54	6.93	7.03

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-156-SA5DN-SB-9.0-10.0	SL-157-SA5DN-SS-0.0-0.5	SL-157-SA5DN-SB-4.0-5.0	SL-157-SA5DN-SB-9.0-10.0	SL-158-SA5DN-SS-0.0-0.5	SL-158-SA5DN-SB-4.0-5.0	SL-158-SA5DN-SB-9.0-10.0
Sample Date		07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011	07/08/2011
SDG		DE196	DE173	DE196	DE196	DE173	DE196	DE196
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	2.8 J Q	1.8 J Q	2.8 J Q	4.5 J Q	1.2 J Q	2.2 J Q	4.6 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	23000	19400	25400	31800	19300	25700	26900
Iron	mg/kg	29100	27800	30600	31200	27500	31100	27800
Lead	mg/kg	8.54 J A	13.2 J E, Q	7.81 J A	14.8 J A	10.2 J E, Q	9.47 J A	8.99 J A
Lithium	mg/kg	25.5	23.5	32.6	35.8	24.1	34.1	29.8
Magnesium	mg/kg	6020	5880	7690	7460	6110	7900	7310
Manganese	mg/kg	261 J E	398	378 J E	307 J E	403	360 J E	240 J E
Mercury	mg/kg	0.0118 J Z	0.110 U B	0.107 U	0.0117 J Z	0.104 U	0.110 U	0.0110 J Z
Molybdenum	mg/kg	0.504	0.810 J E, Q	0.557	0.932	0.678 J E, Q	0.742	0.637
Nickel	mg/kg	28.1 J A	23.8 J Q, A	34.7 J A	45.3 J A	20.6 J Q, A	39.8 J A	32.6 J A
Potassium	mg/kg	2390	5840	3950	2870	6090	3660	2400
Silver	mg/kg	0.0755 J Z	0.0381 J Q, Z	0.0373 J Z	0.0886 J Z	0.0290 J Q, Z	0.0328 J Z	0.0627 J Z
Sodium	mg/kg	133	90.7 J Z	104 J Z	185	87.7 J Z	98.1 J Z	178
Strontium	mg/kg	21.6	26.6	28.4	28.2	27.2	27.6	24.7
Thallium	mg/kg	0.416	0.358 J Q	0.32	0.494	0.296 J Q	0.382	0.28
Tin	mg/kg	11.1 U B	10.8 U B	11.2 U B	11.6 U B	10.6 U B	10.9 U B	11.2 U B
Titanium	mg/kg	1260	1500	1260	1370	1530	1260	1310
Antimony	mg/kg	0.264 J Q, E	0.217 UJ B, Q	0.202 J Q, E, Z	0.289 J Q, E	0.212 UJ B, Q	0.222 J Q, E	0.106 J Q, E, Z
Arsenic	mg/kg	7.46 J Q	7.88 J E, Q	7.22 J Q	13.2 J Q	6.29 J E, Q	7.61 J Q	6.59 J Q
Beryllium	mg/kg	0.917	0.824 J E, Q	0.888	1.59	0.655 J E, Q	0.9	0.927
Barium	mg/kg	110 J A	140 J E, A	111 J A	182 J A	107 J E, A	131 J A	109 J A
Boron	mg/kg	3.28 J Z	5.38 U	5.53 J Z	4.75 J Z	5.30 U	4.88 J Z	3.88 J Z
Cadmium	mg/kg	0.112 U	0.330 J Q	0.143	0.0859 J Z	0.277 J Q	0.102 J Z	0.114 U
Chromium	mg/kg	36.8 J Q, A	36.7 J Q	41.2 J Q, A	53.7 J Q, A	31.9 J Q	47.7 J Q, A	38.1 J Q, A
Cobalt	mg/kg	9.54 J A	12.5 J E, Q	10.9 J A	16.5 J A	10.5 J E, Q	13.5 J A	12.0 J A
Copper	mg/kg	15.3 J A	17.4 J Q	14.4 J A	28.0 J A	13.8 J Q	16.3 J A	11.9 J A
Vanadium	mg/kg	52.9 J A	59.3	60.1 J A	85.8 J A	51.8	69.3 J A	57.2 J A
Zinc	mg/kg	64.6 J A	94	68.5 J A	108 J A	79.2	85.6 J A	59.5 J A
Zirconium	mg/kg	5.07 J Z	7.81	6.09	6.09	7.9	6.17	5.14 J Z
Calcium	mg/kg	2770	4300	3920	3560	4510	3840	2840
Phosphorus	mg/kg	247 J Q	625	466 J Q	279 J Q	687	407 J Q	202 J Q
Selenium	mg/kg	0.0851 J Z	0.253 J Q, Z	0.103 J Z	0.0961 J Z	0.242 J Q, Z	0.153 J Z	0.162 J Z
Chromium VI	mg/kg	0.75 J Z	0.44 J Z	0.54 J Z	0.67 J Z	1.1 U	0.65 J Z	0.66 J Z
Perchlorate (314.0)	ug/kg	34.2 U	33.6 U	34.2 U	35.3 U	32.4 U	33.7 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.2	10.6	12.2	15	--	10.9	13.3
pH	pH unit	7.52	6.91	7.54	7.79	7.29	7.26	7.64

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-159-SA5DN-SS-0.0-0.5	SL-159-SA5DN-SB-4.0-5.0	SL-159-SA5DN-SB-9.0-10.0	SL-160-SA5DN-SS-0.0-0.5	SL-160-SA5DN-SB-4.0-5.0	SL-162-SA5DN-SS-0.0-0.5	SL-162-SA5DN-SB-4.0-5.0
Sample Date		06/03/2011	07/08/2011	07/08/2011	06/03/2011	08/02/2011	06/03/2011	08/02/2011
SDG		DE173	DE196	DE196	DE173	DE214	DE173	DE214
Start Depth		0	4	9	0	4	0	4
End Depth		0.5	5	10	0.5	5	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.1 UJ Q	2.6 J Q	9.1 J Q	1.7 J Q	12.8 J E	1.5 J Q	5.1 J E
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	19400	23800	27100	21300	32300	24900	32500
Iron	mg/kg	28900	29100	31900	27000	37100	29700	34900
Lead	mg/kg	10.8 J E, Q	8.39 J A	8.23 J A	8.93 J E, Q	13.8 J E, Q	11.6 J E, Q	11.2 J E, Q
Lithium	mg/kg	24.1	26.7	30.5	24	40.6	26.6	30.8
Magnesium	mg/kg	5930	6640	7700	5560	7670 J A	6920	8470 J A
Manganese	mg/kg	403	373 J E	325 J E	357	256	366	385
Mercury	mg/kg	0.105 U B	0.109 U	0.110 U	0.0991 U B	0.104 U	0.111 U B	0.108 U
Molybdenum	mg/kg	0.725 J E, Q	0.497	0.43	0.822 J E, Q	0.730 J E, Q	0.773 J E, Q	0.583 J E, Q
Nickel	mg/kg	16.3 J Q, A	25.3 J A	29.5 J A	15.4 J Q, A	25.5 J Q	18.3 J Q, A	27.5 J Q
Potassium	mg/kg	5700	4140	2850	4940	2800 J Q, A	6930	6070 J Q, A
Silver	mg/kg	0.0268 J Q, Z	0.0253 J Z	0.0399 J Z	0.0232 J Q, Z	0.0931 J Q, Z	0.0322 J Q, Z	0.0493 J Q, Z
Sodium	mg/kg	93.5 J Z	105 J Z	466	108	716	98.6 J Z	176
Strontium	mg/kg	29	27.2	29.1	29.8	32.1	34.6	38.5
Thallium	mg/kg	0.296 J Q	0.36	0.328	0.313 J Q	0.420 J Q	0.439 J Q	0.459 J Q
Tin	mg/kg	10.8 U B	11.1 U B	11.1 U B	10.2 U B	10.8 U B	10.8 U B	10.9 U B
Titanium	mg/kg	1480	1270	1300	1480	1420	1630	1440
Antimony	mg/kg	0.218 UJ B, Q	0.215 J Q, E, Z	0.206 J Q, E, Z	0.199 UJ B, Q	0.229 J Q	0.214 UJ B, Q	0.242 J Q
Arsenic	mg/kg	6.21 J E, Q	6.64 J Q	6.84 J Q	7.50 J E, Q	11.0 J Q	7.63 J E, Q	7.46 J Q
Beryllium	mg/kg	0.663 J E, Q	0.864	0.857	0.773 J E, Q	1.29	0.842 J E, Q	1.08
Barium	mg/kg	114 J E, A	111 J A	122 J A	127 J E, A	164	142 J E, A	177
Boron	mg/kg	5.40 U	5.35 J Z	4.69 J Z	5.08 U	8.5	5.41 U	12.6
Cadmium	mg/kg	0.276 J Q	0.124	0.0539 J Z	0.263 J Q	0.0677 J Q, Z	0.203 J Q	0.189 J Q
Chromium	mg/kg	30.7 J Q	39.1 J Q, A	36.6 J Q, A	29.3 J Q	44.2	32.5 J Q	41.8
Cobalt	mg/kg	9.90 J E, Q	12.0 J A	11.1 J A	9.97 J E, Q	9.82	12.3 J E, Q	14.2
Copper	mg/kg	13.1 J Q	14.4 J A	13.1 J A	15.9 J Q	17.2 J Q	22.3 J Q	19.5 J Q
Vanadium	mg/kg	53.8	69.0 J A	58.4 J A	51.2	79.5	61.6	80.8
Zinc	mg/kg	77.2	71.2 J A	63.1 J A	76.1	89	89.7	99.3
Zirconium	mg/kg	7.98	6.38	6.02	8.17	5.69	8.35	4.28 J Z
Calcium	mg/kg	4250	3350	2990	4080	4750 J E, A	4920	5020 J E, A
Phosphorus	mg/kg	618	407 J Q	206 J Q	459	186 J Q	524	367 J Q
Selenium	mg/kg	0.223 J Q, Z	0.134 J Z	0.0919 J Z	0.257 J Q, Z	0.180 J Z	0.270 J Q, Z	0.191 J Z
Chromium VI	mg/kg	1.1 U	0.51 J Z	0.50 J Z	0.32 J Z	0.66 J Z	0.69 J Z	1.8
Perchlorate (314.0)	ug/kg	33.7 U	34.6 U	34.5 U	31.1 U	33.8 UJ Q	33.4 U	33.4 UJ Q
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.6 U
Percent Moisture	%	10.9	13.3	13.1	3.5	11.2	10.3	10.3
pH	pH unit	7.18	6.84	8.46	7.05	8.42	7.15	7.71

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-162-SA5DN-SB-9.0-10.0	SL-164-SA5DN-SS-0.0-0.5	SL-164-SA5DN-SB-4.0-5.0	SL-164-SA5DN-SB-9.0-10.0	SL-165-SA5DN-SS-0.0-0.5	SL-165-SA5DN-SB-4.0-5.0	SL-165-SA5DN-SB-9.0-10.0
Sample Date		08/02/2011	05/26/2011	07/07/2011	07/07/2011	05/26/2011	06/29/2011	06/29/2011
SDG		DE214	DE166	DE195	DE195	DE166	DE191	DE191
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	3.7 J E	1.1 J Q	3.6 J Q	8.2 J Q	2.1 J Q	7.0 J Q	5.2 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	30900	18600	33000	31300	18000	23800	18300
Iron	mg/kg	32700	23900	33900	31800	23900	25800	21300
Lead	mg/kg	10.5 J E, Q	11.4 J Q, A	14.5 J Q, A	12.0 J Q, A	9.29 J Q, A	10.5	11.2
Lithium	mg/kg	30.9	19.9	30.2	30.8	21.2	26.5	19.1
Magnesium	mg/kg	7640 J A	5210	7020	6300	5420	5610	5060
Manganese	mg/kg	280	342	432	342	308	332	244
Mercury	mg/kg	0.113 U	0.0128 J Z	0.115 U	0.0080 J Z	0.0070 J Z	0.0095 J Z	0.0134 J Z
Molybdenum	mg/kg	0.475 J E, Q	0.683	0.989	0.86	0.385	0.596	1.36
Nickel	mg/kg	23.6 J Q	18.5 J Q	36.7 J Q	32.2 J Q	15.4 J Q	25.9	18
Potassium	mg/kg	3830 J Q, A	4800 J Q	3910	3590	3760 J Q	2770	2450
Silver	mg/kg	0.0350 J Q, Z	0.0410 J Z	0.103 J Q, Z	0.0810 J Q, Z	0.0647 J Z	0.0685 J Z	0.0916 J Z
Sodium	mg/kg	179	67.9 J Z	202	233	75.2 J Z	188	278
Strontium	mg/kg	37.8	24.7	37.7	31.9	32.4	24.1	33
Thallium	mg/kg	0.391 J Q	0.262	0.544 J Q	0.445 J Q	0.278	0.432	0.298
Tin	mg/kg	11.2 U B	10.8 U B	11.2 U B	11.2 U B	10.5 U B	11.0 U B	10.2 U B
Titanium	mg/kg	1550	1080	1080	1250	1150	1240	1020
Antimony	mg/kg	0.189 J Q, Z	0.179 J Q, Z	0.371 J Q	0.294 J Q	0.0721 J Q, Z	0.215 U B	0.204 U B
Arsenic	mg/kg	8.78 J Q	10.1 J Q	14.6 J A	14.4 J A	5.30 J Q	18	7.62
Beryllium	mg/kg	0.93	0.67	1.41 J Q, E	1.31 J Q, E	0.577	0.944	0.625
Barium	mg/kg	131	106 J A	160 J A	174 J A	98.4 J A	131	134
Boron	mg/kg	12.1	6.6	5.61 U	5.58 U	6.58	5.26 J Z	4.98 J Z
Cadmium	mg/kg	0.0916 J Q, Z	0.406	0.299 J Q	0.294 J Q	0.271	0.136	0.159
Chromium	mg/kg	39.4	24.5 J Q, A	46.1 J Q	39.0 J Q	21.7 J Q, A	34.3	22.2
Cobalt	mg/kg	12.4	7.92	16.3	12.9	7.06	11.3	9.81
Copper	mg/kg	16.6 J Q	14.6	24.0 J Q, A	20.9 J Q, A	11.8	16.7	21.3
Vanadium	mg/kg	75.8	48.7 J A	82	73.5	43.3 J A	74	65.8
Zinc	mg/kg	82.7	67	99.4 J A	81.4 J A	67.4	81.6	71.2
Zirconium	mg/kg	4.66 J Z	3.03 J Z	6.08	8.05	2.07 J Z	3.53 J Z	4.49 J Z
Calcium	mg/kg	4480 J E, A	4690	5450	4570	12800	3710	12200
Phosphorus	mg/kg	366 J Q	461	191	199	419	108	552
Selenium	mg/kg	0.168 J Z	0.221 J Z	0.207 J Z	0.140 J Z	0.128 J Z	0.121 J Z	0.129 J Z
Chromium VI	mg/kg	1.2 U	1.1 U	0.62 J Z	0.52 J Z	0.85 J Z	1.1 U	0.73 J Z
Perchlorate (314.0)	ug/kg	34.6 UJ Q	33.0 U	34.6 U	34.2 U	32.3 U	33.9 U	31.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	13.2	9	13.4	12.2	7	11.4	5.6
pH	pH unit	7.24	7.23	8.13	8.57	8.28	8.8	10.7

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-166-SA5DN-SS-0.0-0.5	SL-166-SA5DN-SB-4.0-5.0	SL-166-SA5DN-SB-9.0-10.0	SL-167-SA5DN-SB-4.0-5.0	SL-167-SA5DN-SB-9.0-10.0	SL-168-SA5DN-SB-4.0-5.0	SL-168-SA5DN-SB-9.0-10.0
Sample Date		06/03/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011
SDG		DE173	DE195	DE195	DE195	DE195	DE195	DE195
Start Depth		0	4	9	4	9	4	9
End Depth		0.5	5	10	5	10	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.8 J Q	3.6 J Q	5.9 J Q	4.7 J Q	6.3 J Q	4.6 J Q	5.7 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	24800	33500	29000	33200	26000	33200	21100
Iron	mg/kg	29400	34100	27700	37200	27200	36100	24800
Lead	mg/kg	48.6 J E, Q	11.4 J Q, A	12.2 J Q, A	12.1 J Q, A	11.0 J Q, A	11.6 J Q, A	10.7 J Q, A
Lithium	mg/kg	23.4	31.7	31	32.3	28.8	29.9	21.2
Magnesium	mg/kg	7210	8040	6220	8550	6180	8210	5230
Manganese	mg/kg	443	419	329	382	359	517	412
Mercury	mg/kg	0.111 U B	0.113 U	0.114 U	0.0130 J Z	0.109 U	0.115 U	0.111 U
Molybdenum	mg/kg	0.931 J E, Q	0.616	0.676	0.608	0.683	0.503	0.672
Nickel	mg/kg	25.5 J Q, A	26.7 J Q	31.1 J Q	30.8 J Q	28.1 J Q	30.0 J Q	30.5 J Q
Potassium	mg/kg	6840	4540	3060	3580	3600	3660	3060
Silver	mg/kg	0.0656 J Q, Z	0.0582 J Q, Z	0.0550 J Q, Z	0.0350 J Q, Z	0.0555 J Q, Z	0.0584 J Q, Z	0.0634 J Q, Z
Sodium	mg/kg	87.7 J Z	96.6 J Z	94.8 J Z	131	183	141	109 J Z
Strontium	mg/kg	29.5	58.6	65.3	37.8	43.1	37.1	29.8
Thallium	mg/kg	0.404 J Q	0.420 J Q	0.447 J Q	0.457 J Q	0.434 J Q	0.397 J Q	0.416 J Q
Tin	mg/kg	10.8 U B	11.4 U B	11.4 U B	11.4 U B	11.2 U B	11.4 U B	11.3 U B
Titanium	mg/kg	1410	1060	1200	1270	1200	1260	1180
Antimony	mg/kg	0.595 J Q	0.311 J Q	0.196 J Q, Z	0.317 J Q	0.206 J Q, Z	0.208 J Q, Z	0.167 J Q, Z
Arsenic	mg/kg	11.2 J E, Q	9.85 J A	13.3 J A	12.8 J A	10.1 J A	9.26 J A	9.88 J A
Beryllium	mg/kg	0.983 J E, Q	1.06 J Q, E	1.19 J Q, E	1.14 J Q, E	0.974 J Q, E	1.02 J Q, E	0.941 J Q, E
Barium	mg/kg	182 J E, A	167 J A	179 J A	164 J A	168 J A	171 J A	162 J A
Boron	mg/kg	5.41 U	5.70 U F	5.69 U	5.68 U	5.62 U	5.68 U	5.63 U
Cadmium	mg/kg	0.646 J Q	0.451 J Q	0.363 J Q	0.323 J Q	0.426 J Q	0.371 J Q	0.367 J Q
Chromium	mg/kg	39.0 J Q	39.1 J Q	41.3 J Q	44.6 J Q	39.2 J Q	40.8 J Q	34.6 J Q
Cobalt	mg/kg	14.6 J E, Q	12.1	16.6	13.4	10.7	12.8	14.2
Copper	mg/kg	26.4 J Q	20.3 J Q, A	21.3 J Q, A	22.4 J Q, A	19.6 J Q, A	22.2 J Q, A	20.7 J Q, A
Vanadium	mg/kg	70.5	73.1	76.8	83.4	74.8	79.2	68.1
Zinc	mg/kg	132	81.5 J A	76.9 J A	96.9 J A	80.9 J A	87.0 J A	85.7 J A
Zirconium	mg/kg	6.51	7.87	7.64	8.46	7.14	8.57	6.12
Calcium	mg/kg	9480	37100	42900	9540	36700	7620	21700
Phosphorus	mg/kg	718	548	218	267	292	410	394
Selenium	mg/kg	0.267 J Q, Z	0.263 J Z	0.121 J Z	0.226 J Z	0.130 J Z	0.113 J Z	0.0975 J Z
Chromium VI	mg/kg	1.1 U	0.39 J Z	0.40 J Z	0.39 J Z	0.41 J Z	0.97 J Z	0.40 J Z
Perchlorate (314.0)	ug/kg	33.4 U	34.6 U	34.8 U	35.1 U	34.8 U	35.4 U	34.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.2	13.2	13.8	14.6	13.7	15.3	12.9
pH	pH unit	7.71	8.42	8.74	8.53	8.72	8.59	8.54

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-169-SA5DN-SB-4.0-5.0	SL-169-SA5DN-SB-7.5-8.5	SL-170-SA5DN-SS-0.0-0.5	SL-170-SA5DN-SB-4.0-5.0	SL-170-SA5DN-SB-9.0-10.0	SL-171-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SS-0.0-0.5
Sample Date		07/07/2011	07/07/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	05/26/2011
SDG		DE195	DE195	DE166	DE213	DE213	DE166	DE166
Start Depth		4	7.5	0	4	9	0	0
End Depth		5	8.5	0.5	5	10	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	1.3 J Z	--
Fluoride	mg/kg	4.5 J Q	9.6 J Q	1.0 UJ Q	4.5	4.7	1.1 UJ Q	1.1 J Q
Cyanide	mg/kg	--	--	--	--	--	0.52 U	--
Aluminum	mg/kg	32200	19200	12200	17200	25100	11200	14200
Iron	mg/kg	34800	22000	18900	20600	26700	17600	22300
Lead	mg/kg	15.9 J Q, A	8.14 J Q, A	3.56 J Q, A	8.64 J E, Q	10.6 J E, Q	12.2 J Q, A	6.87 J Q, A
Lithium	mg/kg	29.2	19.1	23.1	22.3	26.7	17.7	18
Magnesium	mg/kg	8410	4340	4600	5100 J A	6560 J A	4160	5060
Manganese	mg/kg	478	340	267	281	411	304	316
Mercury	mg/kg	0.117 U	0.112 U	0.0068 J Z	0.139	0.110 U	0.0150 J Z	0.0172 J Z
Molybdenum	mg/kg	0.454	0.406	0.217	0.572 J E, Q	0.529 J E, Q	0.485	5.67
Nickel	mg/kg	34.5 J Q	18.1 J Q	11.5 J Q	15.2 J Q	27.1 J Q	13.3 J Q	12.6 J Q
Potassium	mg/kg	3640	2520	2890 J Q	3370 J Q, A	3690 J Q, A	4130 J Q	3020 J Q
Silver	mg/kg	0.0561 J Q, Z	0.0680 J Q, Z	0.0981 U	0.0484 J Q, Z	0.0559 J Q, Z	0.118	0.0272 J Z
Sodium	mg/kg	137	143	56.5 J Z	136	193	82.3 J Z	91.7 J Z
Strontium	mg/kg	41.9	32.6	15.4	22.2	39.4	18	39.2
Thallium	mg/kg	0.460 J Q	0.282 J Q	0.174	0.250 J Q	0.388 J Q	0.209	0.186
Tin	mg/kg	11.9 U B	11.2 U B	10.0 U B	10.6 U B	11.3 U B	10.4 U B	10.5 U B
Titanium	mg/kg	1130	1080	1030	1120	1340	1120	967
Antimony	mg/kg	0.304 J Q	0.169 J Q, Z	0.196 UJ Q	0.0834 J Q, Z	0.202 J Q, Z	0.0646 J Q, Z	0.0818 J Q, Z
Arsenic	mg/kg	11.2 J A	5.69 J A	3.48 J Q	5.60 J Q	7.70 J Q	13.4 J Q	3.81 J Q
Beryllium	mg/kg	1.22 J Q, E	0.710 J Q, E	0.409	0.6	0.915	0.482	0.381
Barium	mg/kg	187 J A	125 J A	67.2 J A	114	156	106 J A	107 J A
Boron	mg/kg	5.96 U	5.59 U	3.06 J Z	7.75	10.7	3.71 J Z	4.94 J Z
Cadmium	mg/kg	0.455 J Q	0.308 J Q	0.0683 J Z	0.319 J Q	0.393 J Q	0.2	0.356
Chromium	mg/kg	46.8 J Q	26.0 J Q	16.5 J Q, A	21.2	35.8	16.3 J Q, A	18.7 J Q, A
Cobalt	mg/kg	18.1	11	5.3	6.94	11.4	6.45	6.54
Copper	mg/kg	27.1 J Q, A	14.4 J Q, A	7	14.1 J Q	17.0 J Q	11.3	10.3
Vanadium	mg/kg	91	46.7	31.2 J A	41.8	68.2	33.8 J A	38.3 J A
Zinc	mg/kg	107 J A	55.1 J A	54.7	73.8	76.6	69.8	59
Zirconium	mg/kg	8.64	5.44 J Z	0.906 J Z	1.55 J Z	2.66 J Z	5.21 U	3.31 J Z
Calcium	mg/kg	9370	28800	2860	5740 J E, A	34200 J E, A	2690	7720
Phosphorus	mg/kg	494	348	381	416 J Q	292 J Q	475	468
Selenium	mg/kg	0.145 J Z	0.443 U	0.0474 J Z	0.132 J Z	0.109 J Z	0.0725 J Z	0.256 J Z
Chromium VI	mg/kg	0.51 J Z	0.53 J Z	1.0 U	0.49 J Z	0.47 J Z	0.52 J Z	1.1 U
Perchlorate (314.0)	ug/kg	36.1 U	34.2 U	30.9 U	33.1 U	34.7 U	31.9 U	32.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	17	12.3	2.9	9.3	13.6	6	7.3
pH	pH unit	8.45	8.59	7.81	8.37	8.3	7.39	8.2

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-172-SA5DN-SB-4.0-5.0	SL-172-SA5DN-SB-9.0-10.0	SL-173-SA5DN-SS-0.0-0.5	SL-173-SA5DN-SB-4.0-5.0	SL-173-SA5DN-SB-9.0-10.0	SL-174-SA5DN-SS-0.0-0.5	SL-174-SA5DN-SB-4.0-5.0
Sample Date		07/28/2011	07/28/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	07/29/2011
SDG		DE211	DE211	DE166	DE213	DE213	DE166	DE212
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	4.0 J Q	4.0 J Q	1.1 U	5.9	3.9	1.1	8.9
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	29500	24600	10900	22700	25800	15200	26900 J E
Iron	mg/kg	31100	24700	18100	24200	23900	26100	29400 J E
Lead	mg/kg	8.39	7.28	14.4 J Q, A	9.81 J E, Q	9.66 J E, Q	11.9 J Q, A	8.44 J Q, E
Lithium	mg/kg	29.7	23.6	22.5	24.1	22.2	28	29.5
Magnesium	mg/kg	6910	6610	4280	6220 J A	5670 J A	8050	6520 J E
Manganese	mg/kg	403	316	255	335	237	373	398 J E
Mercury	mg/kg	0.0159 J Z	0.0114 J Z	0.0207 J Z	0.0113 J Z	0.113 U	0.0143 J Z	0.0095 J Q, Z
Molybdenum	mg/kg	0.725	0.656	0.462	0.494 J E, Q	0.562 J E, Q	0.557	0.343
Nickel	mg/kg	20.1	17.2	12.8 J Q	22.8 J Q	22.8 J Q	26.3 J Q	20.1 J Q, E
Potassium	mg/kg	4630 J Q	2980 J Q	2820 J Q	3170 J Q, A	2470 J Q, A	4290 J Q	3570 J Q, E
Silver	mg/kg	0.0572 J Z	0.0470 J Z	0.0392 J Z	0.0398 J Q, Z	0.0429 J Q, Z	0.0761 J Z	0.0429 J Z
Sodium	mg/kg	127	156	63.1 J Z	251	314	105	139
Strontium	mg/kg	30.4	102	14.1	41.6	31.5	25.4	44.6 J E
Thallium	mg/kg	0.316	0.244	0.286	0.323 J Q	0.398 J Q	0.327	0.307
Tin	mg/kg	10.7 U B	11.8 U B	10.2 U B	11.1 U B	11.3 U B	10.2 U B	11.3 U B
Titanium	mg/kg	1330	1130	625	1220	1200	1580	1410 J E
Antimony	mg/kg	0.127 J Q, Z	0.102 J Q, Z	0.0902 J Q, Z	0.154 J Q, Z	0.140 J Q, Z	0.111 J Q, Z	0.226 UJ Q
Arsenic	mg/kg	6.16	4.93	5.09 J Q	8.38 J Q	9.02 J Q	6.11 J Q	6.31 J Q
Beryllium	mg/kg	0.747	0.596	0.435	0.833	1.13	0.446	0.749
Barium	mg/kg	125	102	82.3 J A	133	136	162 J A	123
Boron	mg/kg	5.33 U B	4.51 J Z	2.90 J Z	10.8	10.1	2.86 J Z	7.26
Cadmium	mg/kg	0.277	0.442	0.213	0.408 J Q	0.122 J Q	0.188	0.275 J E
Chromium	mg/kg	26.0 J *#	25.8 J *#	16.1 J Q, A	31.5	35.6	21.8 J Q, A	28.0 J Q, E, A
Cobalt	mg/kg	9.04	7.53	5.05	10.3	9.41	8.79	9.17
Copper	mg/kg	14.7	12.3	9.47	16.4 J Q	31.2 J Q	16.6	13.6
Vanadium	mg/kg	49.9 J *#	49.7 J *#	29.3 J A	59.2	64	43.8 J A	53.4
Zinc	mg/kg	66.0	53.1	60.2	71.8	70.2	79.5	59.1
Zirconium	mg/kg	6.01	5.58 J Z	5.10 U	2.87 J Z	2.38 J Z	1.27 J Z	7.29
Calcium	mg/kg	9410	91000	3080	38600 J E, A	22100 J E, A	4200	24300 J E
Phosphorus	mg/kg	440	417	374	283 J Q	201 J Q	680	293 J E
Selenium	mg/kg	0.121 J Z	0.110 J Z	0.228 J Z	0.0963 J Z	0.0869 J Z	0.180 J Z	0.0869 J Z
Chromium VI	mg/kg	0.43 J Z	0.29 J Z	0.83 J Z	1.2 U	1.1 U	0.34 J Z	0.24 J Z
Perchlorate (314.0)	ug/kg	33.6 U	35.5 U	31.5 U	34.6 U	34.3 U	31.2 U	35.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	10.7	15.4	4.9	13.4	12.6	3.9	14.2
pH	pH unit	8.08	8.2	8.12	8.6	8.62	7.59	8.4

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-174-SA5DN-SB-9.0-10.0	SL-175-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SB-4.0-5.0	SL-175-SA5DN-SB-9.0-10.0	SL-176-SA5DN-SS-0.0-0.5	SL-176-SA5DN-SB-4.0-5.0	SL-176-SA5DN-SB-9.0-10.0
Sample Date		07/29/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	08/01/2011	08/01/2011
SDG		DE212	DE166	DE213	DE213	DE166	DE213	DE213
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	3.6	2.3	2	--	--	--
Fluoride	mg/kg	8.5	1.4	2.5 J FD	7.3	1.0 U	2.7	8.3
Cyanide	mg/kg	--	0.52 U	0.55 U	0.54 U	--	--	--
Aluminum	mg/kg	29000 J E	14100	20800	27800	10500	18500	29000
Iron	mg/kg	29800 J E	18400	23100	27100	18300	21000	29200
Lead	mg/kg	8.06 J Q, E	6.55 J Q, A	9.31 J E, Q	11.6 J E, Q	7.30 J Q, A	9.16 J E, Q	11.6 J E, Q
Lithium	mg/kg	24.4	18.6	23.5	22.3	23.7	21	23.5
Magnesium	mg/kg	5780 J E	4090	4810 J A	5930 J A	4530	5320 J A	5750 J A
Manganese	mg/kg	553 J E	269	317	288	267	281	268
Mercury	mg/kg	0.0175 J Q, Z	0.0151 J Z	0.0142 J FD, Z	0.115 U	0.0050 J Z	0.109 U	0.111 U
Molybdenum	mg/kg	0.401	0.573	0.561 J E, Q	0.646 J E, Q	0.651	0.590 J E, Q	0.575 J E, Q
Nickel	mg/kg	18.9 J Q, E	11.7 J Q	19.2 J Q	26.6 J Q	11.2 J Q	17.8 J Q	22.8 J Q
Potassium	mg/kg	2550 J Q, E	3070 J Q	2960 J Q, A	2540 J Q, A	2560 J Q	3350 J Q, A	2850 J Q, A
Silver	mg/kg	0.0683 J Z	0.0421 J Z	0.0517 J FD, Q, Z	0.0771 J Q, Z	0.222	0.0576 J Q, Z	0.0638 J Q, Z
Sodium	mg/kg	163	66.4 J Z	98.8 J Z	242	61.7 J Z	160	221
Strontium	mg/kg	33.3 J E	32.3	32.3	35.1	15.7	32.9	35.5
Thallium	mg/kg	0.307	0.243	0.341 J Q	0.412 J Q	0.226	0.318 J Q	0.404 J Q
Tin	mg/kg	11.1 U B	10.4 U B	10.9 U B	11.2 U B	10.0 U B	10.7 U B	11.0 U B
Titanium	mg/kg	1290 J E	1080	1260	1230	960	1100	1310
Antimony	mg/kg	0.100 J Q, Z	0.0802 J Q, Z	0.163 J Q, Z	0.223 J Q	0.0871 J Q, Z	0.170 J Q, Z	0.155 J Q, Z
Arsenic	mg/kg	6.67 J Q	3.89 J Q	5.66 J Q	9.80 J Q	7.23 J Q	5.94 J Q	8.96 J Q
Beryllium	mg/kg	0.833	0.46	0.792	1.26	0.441	0.777	1.04
Barium	mg/kg	119	101 J A	136	180	80.0 J A	134	150
Boron	mg/kg	4.55 J Z	3.38 J Z	8.12	9.7	2.60 J Z	8.3	9.22
Cadmium	mg/kg	0.0902 J E, Z	0.18	0.311 J Q	0.190 J Q	0.232	0.251 J Q	0.121 J Q
Chromium	mg/kg	26.7 J Q, E, A	16.6 J Q, A	27.1	41.1	15.0 J Q, A	26.5	35.1
Cobalt	mg/kg	7.98	5.23	8.3	12.1	4.83	8.12	16.2
Copper	mg/kg	15.6	10.4	13.7 J Q	19.8 J Q	17.5	15.5 J Q	17.6 J Q
Vanadium	mg/kg	51.4	33.9 J A	49.7	76.8	27.5 J A	51.7	65
Zinc	mg/kg	54	50.8	75.9	80.5	54.1	76.1	72.4
Zirconium	mg/kg	5.53 U B	1.33 J Z	2.03 J Z	2.62 J Z	1.06 J Z	1.81 J Z	2.01 J Z
Calcium	mg/kg	7310 J E	15400	18700 J E, A	16300 J E, A	5570	15100 J E, A	13400 J E, A
Phosphorus	mg/kg	209 J E	442	334 J Q	183 J Q	328	422 J Q	186 J Q
Selenium	mg/kg	0.447 U	0.129 J Z	0.132 J Z	0.102 J Z	0.178 J Z	0.113 J Z	0.105 J Z
Chromium VI	mg/kg	0.66 J Z	0.50 J Z	0.60 J Z	0.61 J Z	0.31 J Z	1.1 U	0.52 J Z
Perchlorate (314.0)	ug/kg	34.5 U	32.2 U	33.0 U	34.5 U	31.3 U	33.1 U	34.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.2 U	--	--
Percent Moisture	%	13.1	6.8	9.2	13	4	9.3	12.5
pH	pH unit	8.24	8.1	8.37	8.3	8.18	8.5	8.27

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-179-SA5DN-SS-0.0-0.5	SL-179-SA5DN-SB-4.0-5.0	SL-179-SA5DN-SB-9.0-10.0	SL-180-SA5DN-SS-0.0-0.5	SL-180-SA5DN-SB-4.0-5.0	SL-180-SA5DN-SB-9.0-10.0	SL-181-SA5DN-SS-0.0-0.5
Sample Date		05/26/2011	07/27/2011	07/27/2011	05/26/2011	07/29/2011	07/29/2011	05/26/2011
SDG		DE166	DE210	DE210	DE166	DE212	DE212	DE166
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	1.6 U	1.5 U	1.1 J Z	--	--	--	--
Fluoride	mg/kg	1.0 U	2.7	6.6	1.5	6	8.7	1.1
Cyanide	mg/kg	0.52 U	0.52 U	0.57 U	--	--	--	--
Aluminum	mg/kg	10700	14500	22400	13600	20900 J E	24500 J E	15100
Iron	mg/kg	17300	18500	24500	20800	22500 J E	26300 J E	20700
Lead	mg/kg	5.56 J Q, A	6.21 J E	6.83 J E	4.48 J Q, A	6.42 J Q, E	7.21 J Q, E	8.04 J Q, A
Lithium	mg/kg	23.3	20.2	27.1	24.7	23.5	26.9	17.1
Magnesium	mg/kg	4500	4340	5590	5510	6240 J E	6780 J E	4360
Manganese	mg/kg	260	284	385	287	294 J E	335 J E	369
Mercury	mg/kg	0.0083 J Z	0.0594 J Z	0.111 U F, B	0.0982 U	0.109 UJ Q	0.0096 J Q, Z	0.103 U
Molybdenum	mg/kg	0.563	1.81	0.438	0.699	0.305	0.291	0.875
Nickel	mg/kg	9.48 J Q	11.2 J Q	17.7 J Q	9.17 J Q	15.9 J Q, E	17.4 J Q, E	10.1 J Q
Potassium	mg/kg	3040 J Q	2890 J Q	3120 J Q	3170 J Q	2870 J Q, E	3270 J Q, E	3450 J Q
Silver	mg/kg	0.0498 J Z	0.0299 J E, Z	0.0375 J E, Z	0.0495 J Z	0.0477 J Z	0.0467 J Z	0.0466 J Z
Sodium	mg/kg	72.2 J Z	98.8 U F, Z	150	84.5 J Z	145	136	82.8 J Z
Strontium	mg/kg	17.6	23.9	33.7	23.8	147 J E	104 J E	27.4
Thallium	mg/kg	0.208	0.211	0.268	0.219	0.248	0.269	0.218
Tin	mg/kg	10.5 U B	9.88 U B	11.1 U B	10.2 U B	11.0 U B	11.5 U B	10.3 U B
Titanium	mg/kg	1050	1070	1230	1150	1070 J E	1350 J E	887
Antimony	mg/kg	0.102 J Q, Z	0.169 J Q, Z	0.226 UJ Q	0.209 UJ Q	0.0855 J Q, Z	0.240 UJ Q	0.0858 J Q, Z
Arsenic	mg/kg	8.07 J Q	15.6	6.77	3.30 J Q	4.84 J Q	5.94 J Q	3.45 J Q
Beryllium	mg/kg	0.373	0.649	0.635	0.328	0.56	0.628	0.412
Barium	mg/kg	72.6 J A	80.2 J E	100 J E	74.2 J A	98.8	110	113 J A
Boron	mg/kg	3.23 J Z	5.58	9.34	3.69 J Z	8.15	9.83	4.59 J Z
Cadmium	mg/kg	0.121	0.2	0.245	0.157	0.280 J E	0.394 J E	0.375
Chromium	mg/kg	14.4 J Q, A	15.5 J A	24.0 J A	13.0 J Q, A	24.4 J Q, E, A	26.9 J Q, E, A	14.3 J Q, A
Cobalt	mg/kg	4.31	5.17	7.34	4.32	6.95	7.41	4.77
Copper	mg/kg	6.96	12.6 J E	11.0 J E	6.62	11.3	12.5	8.39
Vanadium	mg/kg	25.6 J A	40.0 J A	47.9 J A	27.9 J A	47.2	51.1	31.2 J A
Zinc	mg/kg	42.7	72.7	53.1	42.8	46.5	52	50.3
Zirconium	mg/kg	1.76 J Z	3.92 J Z	5.86	1.67 J Z	5.48 U B	5.76 U B	1.90 J Z
Calcium	mg/kg	6550	4660	28300	10600	122000 J E	66100 J E	4120
Phosphorus	mg/kg	379	474	284	357	358 J E	408 J E	460
Selenium	mg/kg	0.120 J Z	0.191 J Z	0.0951 J Z	0.0911 J Z	0.115 J Z	0.0863 J Z	0.126 J Z
Chromium VI	mg/kg	0.43 J Z	1.0 U	1.1 U	0.39 J Z	0.28 J Z	0.27 J Z	0.29 J Z
Perchlorate (314.0)	ug/kg	31.4 U	31.1 U	34.2 U	31.3 U	34.2 U	35.9 U	31.7 U
Perchlorate (6850)	ug/kg	5.2 U	--	--	5.2 U	--	--	5.3 U
Percent Moisture	%	4.6	3.6	12.3	4.3	12.3	16.5	5.3
pH	pH unit	8.08	8.3	7.88	8.35	8.42	8.37	7.77

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-181-SA5DN-SB-4.0-5.0	SL-181-SA5DN-SB-9.0-10.0	SL-182-SA5DN-SS-0.0-0.5	SL-182-SA5DN-SB-4.0-5.0	SL-182-SA5DN-SB-9.0-10.0	SL-183-SA5DN-SS-0.0-0.5	SL-183-SA5DN-SB-4.0-5.0
Sample Date		06/30/2011	06/30/2011	05/26/2011	06/30/2011	06/30/2011	05/26/2011	07/28/2011
SDG		DE192	DE192	DE166	DE192	DE192	DE166	DE211
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	4.6 J Q	9.6 J Q	2	2.7 J Q	5.7 J Q	1.0 U	6.6 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	28000	25700	15200	36400	32900	10100	33000
Iron	mg/kg	33200	26300	22200	37700	41100	18800	32600
Lead	mg/kg	7.87 J Q, A	10.6 J Q, A	9.67 J Q, A	11.7 J Q, A	13.4 J Q, A	4.85 J Q, A	9.43
Lithium	mg/kg	32.2	26	19.9	31.7	33.4	30.8	30.7
Magnesium	mg/kg	7390	7530	5250	7800	9350	5430	7770
Manganese	mg/kg	342	340	308	486	357	280	387
Mercury	mg/kg	0.110 U	0.112 U	0.102 U	0.110 U	0.115 U	0.0965 U	0.0120 J Z
Molybdenum	mg/kg	0.429	1	2.69	0.988	0.792	0.458	0.557
Nickel	mg/kg	20.5 J Q, A	23.8 J Q, A	27.7 J Q	30.9 J Q, A	35.2 J Q, A	8.89 J Q	23.6
Potassium	mg/kg	3060	3220	3190 J Q	4680	3310	3140 J Q	3800 J Q
Silver	mg/kg	0.0381 J Z	0.0476 J Z	0.0367 J Z	0.123	0.0687 J Z	0.115	0.0438 J Z
Sodium	mg/kg	227	192	96.7 J Z	224	122	104	144
Strontium	mg/kg	36.3	129	32.2	31.9	46.9	15.3	36.1
Thallium	mg/kg	0.321	0.378	0.219	0.438	0.45	0.232	0.358
Tin	mg/kg	10.9 U B	11.6 U B	10.3 U B	11.2 U B	11.6 U B	9.96 U B	10.8 U B
Titanium	mg/kg	1250	1120	1070	806	1230	1030	1330
Antimony	mg/kg	0.223 UJ B, Q, E	0.234 UJ B, Q, E	0.136 J Q, Z	0.221 UJ B, Q, E	0.232 UJ B, Q, E	0.203 UJ Q	0.167 J Q, Z
Arsenic	mg/kg	11.4 J A	11.9 J A	4.52 J Q	10.2 J A	12.2 J A	5.67 J Q	8.65
Beryllium	mg/kg	0.785	0.858	0.432	1.16	1.17	0.372	0.841
Barium	mg/kg	94.5 J A	140 J A	109 J A	172 J A	145 J A	71.2 J A	134
Boron	mg/kg	11.9	13.6	3.95 J Z	13.8	15.4	3.11 J Z	5.10 J Z
Cadmium	mg/kg	0.200 J E	0.390 J E	0.989	0.368 J E	0.406 J E	0.131	0.272
Chromium	mg/kg	35.0 J Q, A	44.1 J Q, A	38.1 J Q, A	51.1 J Q, A	57.6 J Q, A	13.0 J Q, A	31.9 J *#
Cobalt	mg/kg	10.4 J A	11.3 J A	9.04	14.0 J A	17.0 J A	4.56	10.3
Copper	mg/kg	15.2 J Q, A	20.6 J Q, A	15.4	21.6 J Q, A	25.4 J Q, A	11	15.6
Vanadium	mg/kg	66.5 J A	85.9 J A	41.5 J A	88.3 J A	103 J A	24.3 J A	62.0 J *#
Zinc	mg/kg	73.1	79.9	62.9	93.4	107	48	70.1
Zirconium	mg/kg	5.21 J Z	4.48 J Z	1.92 J Z	4.95 J Z	4.62 J Z	4.98 U	6.14
Calcium	mg/kg	11600	90700	8920	7390	11400	5620	16500
Phosphorus	mg/kg	281	412	427	316	358	401	281
Selenium	mg/kg	0.148 J Z	0.270 J Z	0.112 J Z	0.241 J Z	0.210 J Z	0.142 J Z	0.171 J Z
Chromium VI	mg/kg	0.41 J Z	1.2 U	0.48 J Z	0.62 J Z	1.2 U	1.0 U	0.24 J Z
Perchlorate (314.0)	ug/kg	33.8 U	35.8 U	31.8 U	34.5 U	35.8 U	30.8 U	33.7 U
Perchlorate (6850)	ug/kg	--	6.0 U	5.3 U	--	--	5.1 U	--
Percent Moisture	%	11.3	16.2	5.8	13.1	16.2	2.5	10.9
pH	pH unit	8.26	8.29	8.2	8.15	7.94	8.13	8.2

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-183-SA5DN-SB-9.0-10.0	SL-184-SA5DN-SS-0.0-0.5	SL-184-SA5DN-SB-4.0-5.0	SL-184-SA5DN-SB-9.0-10.0	SL-185-SA5DN-SS-0.0-0.5	SL-185-SA5DN-SB-4.0-5.0	SL-185-SA5DN-SB-9.0-10.0
Sample Date		07/28/2011	05/26/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011	08/04/2011
SDG		DE211	DE166	DE192	DE192	DE163	DE216	DE216
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	6.8 J Q	1.1 U	2.5 J Q	4.2 J Q	1.1 J Q	7.1 J Q	10.5 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	32200	15200	35500	39400	25300	33400	21900
Iron	mg/kg	28400	23100	34100	34300	32400	37700	24100
Lead	mg/kg	8.27	9.63 J Q, A	17.0 J Q, A	13.6 J Q, A	17.0 J Q	12.5 J E, *#	6.81 J E, *#
Lithium	mg/kg	29.6	16.6	31.7	34.7	30.1	28	19.6
Magnesium	mg/kg	5760	5230	8030	7130	8570	7560	4690
Manganese	mg/kg	190	299	386	451	411	460	255
Mercury	mg/kg	0.0157 J Z	0.0344 J Z	0.112 U	0.0102 J Z	0.109 UJ E	0.114 U	0.110 U
Molybdenum	mg/kg	0.405	8.06	0.967	1.15	0.355	0.551	0.306
Nickel	mg/kg	17.3	13.9 J Q	37.2 J Q, A	32.7 J Q, A	19.2 J Q	29.6 J E, Q, *#	16.5 J E, Q, *#
Potassium	mg/kg	2410 J Q	3200 J Q	5000	3900	2810	3600	2320
Silver	mg/kg	0.0536 J Z	0.0547 J Z	0.0888 J Z	0.114	0.0203 J Z	0.0517 J E, Z	0.0472 J E, Z
Sodium	mg/kg	144	78.2 J Z	123	124	94.1 J Z	115	92.5 J Z
Strontium	mg/kg	33.3	41.3	47.7	53.4	32.2 J E	46.2	34
Thallium	mg/kg	0.312	0.262	0.495	0.397	0.196	0.405 J Q, E	0.297 J Q, E
Tin	mg/kg	11.4 U B	10.2 U B	11.2 U B	11.3 U B	11.1 U B	11.3 U B	11.3 U B
Titanium	mg/kg	1250	940	1170	1330	1160	1330	1090
Antimony	mg/kg	0.0991 J Q, Z	0.133 J Q, Z	0.226 UJ B, Q, E	0.225 UJ B, Q, E	0.186 J Q, Z	0.184 J Q, Z	0.0874 J Q, Z
Arsenic	mg/kg	9.5	4.27 J Q	12.5 J A	13.2 J A	3.95 J Q	7.78 J E, Q	5.85 J E, Q
Beryllium	mg/kg	0.828	0.523	1.1	1.28	0.442	1.15 J E, Q	0.801 J E, Q
Barium	mg/kg	111	122 J A	202 J A	201 J A	88.9	182 J E, *#	97.6 J E, *#
Boron	mg/kg	5.68 U B	3.51 J Z	15.4	13	3.78 J Z	12.4	7.82
Cadmium	mg/kg	0.0663 J Z	1.25	0.588 J E	0.250 J E	0.195	0.314	0.153
Chromium	mg/kg	26.0 J *#	19.1 J Q, A	59.7 J Q, A	52.1 J Q, A	32.9 J A	48.0 J E, *#	28.3 J E, *#
Cobalt	mg/kg	5.85	8.22	17.2 J A	18.3 J A	10.8	13.7 J E, *#	7.19 J E, *#
Copper	mg/kg	11.5	11.9	28.7 J Q, A	21.5 J Q, A	13.3 J E, Q	20.4 J E, Q, *#	12.2 J E, Q, *#
Vanadium	mg/kg	49.4 J *#	44.1 J A	110 J A	95.8 J A	53.5 J A	87.2 J E, *#	52.1 J E, *#
Zinc	mg/kg	55.8	59.9	113	83.5	62.8	88.2 J E, *#	54.9 J E, *#
Zirconium	mg/kg	5.06 J Z	1.87 J Z	3.75 J Z	5.15 J Z	1.21 J Z	4.39 J E, Z	1.62 J E, Z
Calcium	mg/kg	15400	11700	34600	10300	17100 J E	12300	79700
Phosphorus	mg/kg	110	503	568	149	449 J E	343 J Q	246 J Q
Selenium	mg/kg	0.0798 J Z	0.252 J Z	0.288 J Z	0.124 J Z	0.0850 J Z	0.104 J Z	0.440 U
Chromium VI	mg/kg	0.24 J Z	0.30 J Z	0.70 J Z	0.54 J Z	0.62 J Z	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	34.4 U	31.8 U	34.2 U	35.0 U	33.3 U	34.4 U	34.3 U
Perchlorate (6850)	ug/kg	5.7 U	5.3 U	--	--	--	--	--
Percent Moisture	%	12.8	5.8	12.4	14.4	9.8	12.9	12.5
pH	pH unit	8.05	8.06	8.13	7.99	8.3	8.08	8.13

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-186-SA5DN-SS-0.0-0.5	SL-186-SA5DN-SB-4.0-5.0	SL-186-SA5DN-SB-9.0-10.0	SL-187-SA5DN-SS-0.0-0.5	SL-187-SA5DN-SB-4.0-5.0	SL-187-SA5DN-SB-9.0-10.0	SL-188-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	07/05/2011	07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011
SDG		DE160	DE193	DE193	DE160	DE192	DE192	DE160
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	22.5	3.2	6.1	--	--	--	--
Fluoride	mg/kg	1.5 J Q	3.6 J Q	5.3 J Q	1.9 J Q	2.3 J Q	2.5 J Q	2.4 J Q
Cyanide	mg/kg	0.56 U	0.58 U	0.54 U	--	--	--	--
Aluminum	mg/kg	29700	30700	29300	27400	34800	33500	28700
Iron	mg/kg	35300	32200	30400	30100	34700	32300	30700
Lead	mg/kg	16.5 J Q, E, A	13.3	7.29	20.3 J Q, E, A	12.6 J Q, A	13.3 J Q, A	14.1 J Q, E, A
Lithium	mg/kg	26.3	28.2	26.6	24.5	27.3	23.5	25
Magnesium	mg/kg	7790	7130	5920	7400	6960	5780	6710
Manganese	mg/kg	477	464	414	499	499	382	460
Mercury	mg/kg	0.113 U	0.114 U	0.112 U	0.0084 J Z	0.112 U	0.0174 J Z	0.114 U
Molybdenum	mg/kg	0.751	0.755	0.666	0.82	0.807	1.11	0.673
Nickel	mg/kg	26.1 J Q, E, A	32.3	19.5	28.0 J Q, E, A	30.8 J Q, A	35.9 J Q, A	22.9 J Q, E, A
Potassium	mg/kg	8210	5400	3600	8230	5770	3310	6840
Silver	mg/kg	0.0583 J Z	0.0621 J Z	0.0407 J Z	0.0616 J Z	0.0539 J Z	0.0786 J Z	0.0410 J Z
Sodium	mg/kg	103 J Z	114	111 J Z	123 J Z	106 J Z	99.9 J Z	82.0 J Z
Strontium	mg/kg	44.3	48	34.9	36	33.5	36.2	30.6
Thallium	mg/kg	0.449	0.524	0.326	0.481	0.454	0.428	0.438
Tin	mg/kg	11.3 U B	11.3 U B	11.3 U B	12.6 U B	11.1 U B	11.4 U B	11.1 U B
Titanium	mg/kg	1480 J E	1540	1450	1510 J E	1210	1390	1550 J E
Antimony	mg/kg	0.208 J Q, Z	0.242	0.148 J Z	0.243 J Q, Z	0.225 UJ B, Q, E	0.233 UJ B, Q, E	0.133 J Q, Z
Arsenic	mg/kg	7.54 J Q	8.73	8.17	7.81 J Q	7.72 J A	11.5 J A	6.79 J Q
Beryllium	mg/kg	0.703 J Q	1.29	0.911	0.726 J Q	1.22	1.45	0.773 J Q
Barium	mg/kg	154 J E, A	197	102	173 J E, A	198 J A	194 J A	151 J E, A
Boron	mg/kg	15.4	5.67 U	5.67 U	16.7	12.3	9.36	10.9
Cadmium	mg/kg	0.537	0.556	0.192	0.98	0.442 J E	0.193 J E	0.36
Chromium	mg/kg	36.8 J Q, A	52.9	32.2	37.7 J Q, A	50.8 J Q, A	54.7 J Q, A	31.6 J Q, A
Cobalt	mg/kg	12.7 J E, A	16.3	7.91	13.9 J E, A	16.0 J A	19.5 J A	11.6 J E, A
Copper	mg/kg	23.1 J Q, E, A	26.9	15.6	25.5 J Q, E, A	23.9 J Q, A	27.7 J Q, A	19.4 J Q, E, A
Vanadium	mg/kg	69.3 J Q, A	101	59.8	70.5 J Q, A	95.1 J A	102 J A	60.7 J Q, A
Zinc	mg/kg	101 J E	104	64.4	128 J E	101	92.8	86.1 J E
Zirconium	mg/kg	2.59 J Z	5.82	7.35	3.18 J Z	4.71 J Z	4.55 J Z	3.35 J Z
Calcium	mg/kg	14600	24800	6420	8690	10500	7980	6500
Phosphorus	mg/kg	818	453	359	814	349	330	580
Selenium	mg/kg	0.287 J Z	0.210 J Z	0.0985 J Z	0.324 J Z	0.141 J Z	0.0827 J Z	0.247 J Z
Chromium VI	mg/kg	0.75 J Z	0.90 J Z	0.44 J Z	1.3 U	0.74 J Z	0.62 J Z	1.2 U
Perchlorate (314.0)	ug/kg	34.3 U	35.0 U	34.4 U	38.3 U	34.4 U	35.0 U	34.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	12.5	14.4	12.7	21.6	12.7	14.3	13.1
pH	pH unit	7.81	7.95	7.86	7.18	7.95	7.92	7.68

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-188-SA5DN-SB-4.0-5.0	SL-188-SA5DN-SB-9.0-10.0	SL-189-SA5DN-SS-0.0-0.5	SL-189-SA5DN-SB-4.0-5.0	SL-189-SA5DN-SB-9.0-10.0	SL-190-SA5DN-SS-0.0-0.5	SL-190-SA5DN-SB-4.0-5.0
Sample Date		08/03/2011	08/03/2011	05/24/2011	08/04/2011	08/04/2011	05/25/2011	07/06/2011
SDG		DE215	DE215	DE160	DE216	DE216	DE163	DE194
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	3.6 J E, Q	7.6 J E, Q	1.2 J Q	2.6 J Q	5.5 J Q	1.2 J Q	3.8 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	31300	28300	32100	29900	32200	31000	34500
Iron	mg/kg	29900	29000	35200	30700	34700	32800	36900
Lead	mg/kg	9.89 J E, A	11.5 J E, A	18.4 J Q, E, A	13.6 J FD, E, *#	13.1 J E, *#	13.1 J Q	10.3 J E, A
Lithium	mg/kg	24.8	20.8	26.9	25.4	24.9	26.4	30.2
Magnesium	mg/kg	5610	4800	8080	6570	6850	8100	7720
Manganese	mg/kg	374	498	464	385	430	492	448
Mercury	mg/kg	0.0080 J Z	0.0222 J Z	0.115 U	0.105 U	0.0089 J Z	0.0176 J Q, E, Z	0.113 U
Molybdenum	mg/kg	0.559	1.09	0.756	0.763 J FD	0.811	0.432	0.489 J Q
Nickel	mg/kg	22.8 J E, Q, A	24.2 J E, Q, A	27.5 J Q, E, A	30.9 J E, Q, *#	29.1 J E, Q, *#	21.3 J Q	23.6 J E, Q, A
Potassium	mg/kg	3240	3240	8450	5170	4440	7720	5330
Silver	mg/kg	0.0624 J E, Z	0.0886 J E, Z	0.0572 J Z	0.0528 J E, Z	0.0543 J E, Z	0.0303 J Z	0.0536 J Q, Z
Sodium	mg/kg	107 J Z	135	94.9 J Z	82.5 J Z	113	96.6 J Z	102 J Z
Strontium	mg/kg	24.9	22.2	50	38	39.8	77.1 J E	41.5
Thallium	mg/kg	0.401 J Q, E	0.374 J Q, E	0.469	0.521 J Q, E	0.447 J Q, E	0.366	0.362
Tin	mg/kg	11.1 U B	11.2 U B	11.4 U B	11.0 U B	11.0 U B	11.3 U B	11.3 U B
Titanium	mg/kg	1230	1170	1540 J E	1380	1140	1320	1560
Antimony	mg/kg	0.118 J Q, Z	0.136 J Q, Z	0.204 J Q, Z	0.283 J FD, Q	0.238 J Q	0.133 J Q, Z	0.292 J Q
Arsenic	mg/kg	7.46 J E, Q	8.25 J E, Q	8.13 J Q	8.34 J E, Q	8.87 J E, Q	6.46 J Q	6.87 J E, A
Beryllium	mg/kg	1.20 J E, Q	1.19 J E, Q	0.781 J Q	1.23 J E, Q	1.27 J E, Q	0.773	0.992 J Q
Barium	mg/kg	161 J E, A	158 J E, A	162 J E, A	191 J E, *#	173 J E, *#	118	131 J E, A
Boron	mg/kg	9.56	8.93	16	12.7	12.4	12	5.66 U
Cadmium	mg/kg	0.154	0.110 J Z	0.442	0.349	0.256	0.42	0.280 J Q
Chromium	mg/kg	36.1 J E, A	39.0 J E, A	41.2 J Q, A	52.7 J FD, E, *#	51.4 J E, *#	30.3 J A	41.0 J E, A
Cobalt	mg/kg	15.6 J E, A	13.5 J E, A	13.7 J E, A	15.2 J E, *#	11.9 J E, *#	10.7	12.0 J E, Q, A
Copper	mg/kg	13.6 J E, Q, A	15.1 J E, Q, A	24.2 J Q, E, A	24.5 J E, Q, *#	23.5 J E, Q, *#	18.4 J E, Q	18.8 J E, Q
Vanadium	mg/kg	68.3 J E, A	72.7 J E, A	78.2 J Q, A	99.8 J FD, E, *#	96.7 J E, *#	57.9 J A	80.3 J E, A
Zinc	mg/kg	75.5 J E, A	74.5 J E, A	128 J E	102 J E, *#	99.5 J E, *#	81.9	75.5 J E, A
Zirconium	mg/kg	1.69 J Z	2.81 J Z	2.88 J Z	2.28 J E, Z	3.11 J E, Z	3.82 J Z	8.28
Calcium	mg/kg	4560	4190	18700	16400	8610	40400 J E	13000
Phosphorus	mg/kg	319 J Q	237 J Q	722	376 J Q	642 J Q	709 J E	325
Selenium	mg/kg	0.108 J Z	0.120 J Z	0.360 J Z	0.279 J FD, Z	0.206 J Z	0.295 J Z	0.233 J Z
Chromium VI	mg/kg	0.53 J Z	11.8	1.2	0.54 J FD, Z	1.2 U	1.2	0.61 J Z
Perchlorate (314.0)	ug/kg	34.5 U	34.4 U	35.3 U	33.0 U	34.6 U	35.5 U	35.0 U
Perchlorate (6850)	ug/kg	--	5.7 U	--	--	--	--	--
Percent Moisture	%	13.1	12.7	14.9	9	13.3	15.5	14.3
pH	pH unit	7.48	7.88	7.91	8.02	7.9	7.9	7.89

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-190-SA5DN-SB-9.0-10.0	SL-191-SA5DN-SS-0.0-0.5	SL-191-SA5DN-SB-4.0-5.0	SL-191-SA5DN-SB-9.0-10.0	SL-192-SA5DN-SS-0.0-0.5	SL-192-SA5DN-SB-4.0-5.0	SL-192-SA5DN-SB-9.0-10.0
Sample Date		07/06/2011	05/24/2011	07/06/2011	07/06/2011	05/24/2011	07/05/2011	07/05/2011
SDG		DE194	DE160	DE194	DE194	DE160	DE193	DE193
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	7.2	1.5 J Q, Z	4.3 J Q	56.1	19.7	19.7
Fluoride	mg/kg	10.5 J Q	1.5 J Q	3.4 J Q	14.4 J Q	1.2 J Q	5.0 J Q	10.7 J Q
Cyanide	mg/kg	--	0.53 U	0.58 U	0.57 U	0.23 J Z	0.57 U	0.54 U
Aluminum	mg/kg	34400	22700	34500	36100	24800	34400	31900
Iron	mg/kg	39800	25400	34000	38500	26800	35800	34800
Lead	mg/kg	10.2 J E, A	17.6 J Q, E, A	13.4 J E, A	11.1 J E, A	11.6 J Q, E, A	12.8	12.5
Lithium	mg/kg	28.7	24.3	28.3	28.5	20.1	27.4	28.2
Magnesium	mg/kg	7660	5830	7120	8030	5650	7190	7240
Manganese	mg/kg	467	359	430	517	441	427	485
Mercury	mg/kg	0.0104 J Z	0.0376 J Z	0.114 U	0.0092 J Z	0.116 U	0.113 U	0.0161 J Z
Molybdenum	mg/kg	0.759 J Q	0.743	0.672 J Q	0.486 J Q	0.813	0.682	0.67
Nickel	mg/kg	26.2 J E, Q, A	23.5 J Q, E, A	29.2 J E, Q, A	24.9 J E, Q, A	21.2 J Q, E, A	28.2	29
Potassium	mg/kg	4590	5560	5210	3950	7080	4500	5340
Silver	mg/kg	0.0717 J Q, Z	1.29	0.0485 J Q, Z	0.0486 J Q, Z	0.0815 J Z	0.0538 J Z	0.0996 J Z
Sodium	mg/kg	223	86.1 J Z	105 J Z	449	88.3 J Z	176	236
Strontium	mg/kg	40.1	39.9	42.4	46.5	33.8	44.9	42.5
Thallium	mg/kg	0.36	0.407	0.454	0.388	0.428	0.401	0.486
Tin	mg/kg	11.4 U B	10.8 U B	11.6 U B	11.3 U B	11.8 U B	11.6 U B	11.5 U B
Titanium	mg/kg	1680	1260 J E	1660	1270	1350 J E	1160	1430
Antimony	mg/kg	0.299 J Q	0.250 J Q	0.289 J Q	0.245 J Q	0.248 J Q	0.217 J Z	0.261
Arsenic	mg/kg	7.71 J E, A	7.81 J Q	8.23 J E, A	7.31 J E, A	6.31 J Q	7.31	10.3
Beryllium	mg/kg	1.03 J Q	0.606 J Q	1.30 J Q	1.20 J Q	0.660 J Q	1.19	1.38
Barium	mg/kg	147 J E, A	135 J E, A	178 J E, A	147 J E, A	149 J E, A	178	154
Boron	mg/kg	5.69 U	12.4	5.82 U	5.65 U	13.7	5.82 U	5.74 U
Cadmium	mg/kg	0.275 J Q	0.693	0.331 J Q	0.168 J Q	0.489	0.178	0.132
Chromium	mg/kg	46.0 J E, A	31.7 J Q, A	55.2 J E, A	48.5 J E, A	29.9 J Q, A	45.6	52.9
Cobalt	mg/kg	12.6 J E, Q, A	11.1 J E, A	16.3 J E, Q, A	11.1 J E, Q, A	11.5 J E, A	19.9	13.7
Copper	mg/kg	21.1 J E, Q	23.8 J Q, E, A	25.2 J E, Q	20.2 J E, Q	19.4 J Q, E, A	19.1	22.3
Vanadium	mg/kg	88.4 J E, A	57.2 J Q, A	110 J E, A	92.4 J E, A	56.7 J Q, A	83.7	96.1
Zinc	mg/kg	81.6 J E, A	101 J E	94.3 J E, A	82.1 J E, A	89.4 J E	82.5	92.5
Zirconium	mg/kg	9.21	1.78 J Z	8.04	7.92	2.88 J Z	7.15	7.19
Calcium	mg/kg	8720	13000	12800	8350	6570	6270	5570
Phosphorus	mg/kg	383	528	242	219	627	202	331
Selenium	mg/kg	0.136 J Z	0.327 J Z	0.218 J Z	0.160 J Z	0.230 J Z	0.138 J Z	0.131 J Z
Chromium VI	mg/kg	0.44 J Z	0.69 J Z	0.61 J Z	0.61 J Z	0.78 J Z	0.45 J Z	0.41 J Z
Perchlorate (314.0)	ug/kg	35.2 U	32.8 U	34.9 U	35.3 U	36.9 U	34.9 U	35.1 U
Perchlorate (6850)	ug/kg	--	--	4.8 J Z	--	--	--	--
Percent Moisture	%	14.7	8.4	14.1	14.9	18.7	14.1	14.6
pH	pH unit	7.93	8.14	7.9	7.96	7.48	7.66	7.69

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-193-SA5DN-SS-0.0-0.5	SL-193-SA5DN-SB-4.0-5.0	SL-193-SA5DN-SB-9.0-10.0	SL-194-SA5DN-SS-0.0-0.5	SL-194-SA5DN-SB-4.0-5.0	SL-194-SA5DN-SB-9.0-10.0	SL-195-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	08/03/2011	08/03/2011	05/24/2011	07/05/2011	07/05/2011	05/24/2011
SDG		DE160	DE215	DE215	DE160	DE193	DE193	DE160
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.2 J Q	3.9 J E, Q	4.6 J E, Q	1.6 J Q	2.1 J Q	5.9 J Q	1.3 UJ Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	21000	27600	30900	26000	29000	37000	20400
Iron	mg/kg	25200	29700	31700	28800	31800	31200	25200
Lead	mg/kg	16.7 J Q, E, A	12.8 J E, A	9.46 J E, A	122 J Q, E, A	13	10.5	18.5 J Q, E, A
Lithium	mg/kg	24.8	22.8	23.5	21.4	25.9	25	25.3
Magnesium	mg/kg	6920	5870	6550	6630	6550	5630	5570
Manganese	mg/kg	382	540	381	492	519	198	398
Mercury	mg/kg	0.107 U	0.107 U	0.110 U	0.123 U	0.114 U	0.0220 J Z	0.0415 J Z
Molybdenum	mg/kg	0.838	0.845	0.374	0.788	0.743	1.07	1.19
Nickel	mg/kg	37.5 J Q, E, A	31.8 J E, Q, A	22.0 J E, Q, A	23.6 J Q, E, A	32.6	25.2	29.1 J Q, E, A
Potassium	mg/kg	5560	4090	3570	7720	5080	3110	5640
Silver	mg/kg	0.792	0.503 J E	0.179 J E	0.0541 J Z	0.0718 J Z	0.112 J Z	2.6
Sodium	mg/kg	87.7 J Z	129	160	74.0 J Z	112	143	90.1 J Z
Strontium	mg/kg	38.3	29.6	33.8	35.6	27.8	28.7	30.1
Thallium	mg/kg	0.338	0.432 J Q, E	0.381 J Q, E	0.451	0.488	0.383	0.454
Tin	mg/kg	10.6 U B	10.8 U B	11.0 U B	12.4 U B	11.1 U B	11.6 U B	12.3 U B
Titanium	mg/kg	1280 J E	1230	1260	1440 J E	1400	1370	1200 J E
Antimony	mg/kg	0.145 J Q, Z	0.170 J Q, Z	0.133 J Q, Z	41.4 J Q	0.27	0.206 J Z	0.273 J Q
Arsenic	mg/kg	6.95 J Q	7.02 J E, Q	6.80 J E, Q	6.50 J Q	8.86	8.87	9.55 J Q
Beryllium	mg/kg	0.589 J Q	1.10 J E, Q	1.01 J E, Q	0.693 J Q	1.26	1.39	0.718 J Q
Barium	mg/kg	126 J E, A	185 J E, A	138 J E, A	164 J E, A	141	173	152 J E, A
Boron	mg/kg	9.35	10.1	10.3	13.8	5.53 U	5.79 U	10.1
Cadmium	mg/kg	0.516	0.378	0.119	0.563	0.355	0.104 J Z	0.837
Chromium	mg/kg	35.1 J Q, A	44.7 J E, A	37.2 J E, A	33.6 J Q, A	51.7	45.7	29.7 J Q, A
Cobalt	mg/kg	10.3 J E, A	13.7 J E, A	9.85 J E, A	11.9 J E, A	16.5	8.85	13.3 J E, A
Copper	mg/kg	27.8 J Q, E, A	24.9 J E, Q, A	14.7 J E, Q, A	23.0 J Q, E, A	25.1	20.1	24.1 J Q, E, A
Vanadium	mg/kg	49.3 J Q, A	77.8 J E, A	66.8 J E, A	61.8 J Q, A	96.6	79.7	51.3 J Q, A
Zinc	mg/kg	88.8 J E	116 J E, A	71.1 J E, A	96.7 J E	109	72.4	112 J E
Zirconium	mg/kg	2.08 J Z	1.81 J Z	2.50 J Z	3.93 J Z	7.5	7.21	1.69 J Z
Calcium	mg/kg	4920	4010	4440	7400	5160	4920	5710
Phosphorus	mg/kg	636	268 J Q	188 J Q	711	370	247	639
Selenium	mg/kg	0.200 J Z	0.113 J Z	0.0753 J Z	0.302 J Z	0.114 J Z	0.0883 J Z	0.236 J Z
Chromium VI	mg/kg	1.1 U	0.57 J Z	0.51 J Z	0.60 J Z	0.49 J Z	0.64 J Z	1.3 U
Perchlorate (314.0)	ug/kg	32.7 U	33.8 U	34.6 U	37.6 U	34.5 U	35.4 U	37.7 U
Perchlorate (6850)	ug/kg	--	--	5.8 U	--	--	--	--
Percent Moisture	%	8.3	11.3	13.4	20.3	13.1	15.3	20.5
pH	pH unit	7.02	7.46	7.17	7.19	7.25	7.79	7.16

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-195-SA5DN-SB-4.0-5.0	SL-195-SA5DN-SB-9.0-10.0	SL-196-SA5DN-SS-0.0-0.5	SL-196-SA5DN-SB-4.0-5.0	SL-196-SA5DN-SB-9.0-10.0	SL-197-SA5DN-SS-0.0-0.5	SL-197-SA5DN-SB-4.0-5.0
Sample Date		07/05/2011	07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	06/30/2011
SDG		DE193	DE193	DE160	DE192	DE192	DE160	DE192
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	14.9	2.4
Fluoride	mg/kg	3.3 J Q	5.9 J Q	2.2 J Q	2.1 J Q	6.0 J Q	1.4 J Q	3.7 J Q
Cyanide	mg/kg	--	--	--	--	--	0.58 U	0.59 U
Aluminum	mg/kg	31600	35400	30100	38600	38600	29900	37100
Iron	mg/kg	32900	36600	32000	40300	38100	32100	39000
Lead	mg/kg	14.2	15.8	16.9 J Q, E, A	10.4 J Q, A	13.0 J Q, A	17.8 J Q, E, A	11.3 J Q, A
Lithium	mg/kg	26.7	32.2	24.9	29.3	29.9	25.9	29.5
Magnesium	mg/kg	6650	7870	7170	8010	8020	7480	8360
Manganese	mg/kg	451	391	508	494	193	487	490
Mercury	mg/kg	0.114 U	0.103 J Z	0.109 U	0.111 U	0.111 U	0.0083 J Z	0.115 U
Molybdenum	mg/kg	0.721	0.645	0.697	0.417	0.374	0.763	0.435
Nickel	mg/kg	33.8	35.1	28.1 J Q, E, A	23.5 J Q, A	31.0 J Q, A	26.6 J Q, E, A	26.5 J Q, A
Potassium	mg/kg	5250	4530	7700	5260	2690	8590	5110
Silver	mg/kg	0.0814 J Z	0.0765 J Z	0.109 J Z	0.0604 J Z	0.126	0.116	0.0502 J Z
Sodium	mg/kg	124	142	92.1 J Z	139	112 J Z	81.0 J Z	131
Strontium	mg/kg	36.4	44.5	35.7	37.8	42.2	35.3	51
Thallium	mg/kg	0.483	0.514	0.502	0.377	0.439	0.468	0.371
Tin	mg/kg	11.4 U B	12.1 U B	11.2 U B	11.1 U B	11.4 U B	11.5 U B	11.6 U B
Titanium	mg/kg	1650	1690	1490 J E	1200	828	1430 J E	1130
Antimony	mg/kg	0.298	0.309	0.195 J Q, Z	0.220 UJ B, Q, E	0.227 UJ B, Q, E	0.180 J Q, Z	0.231 UJ B, Q, E
Arsenic	mg/kg	9.12	9.37	7.41 J Q	5.87 J A	10.3 J A	7.77 J Q	6.40 J A
Beryllium	mg/kg	1.39	1.38	0.742 J Q	1.03	1.59	0.738 J Q	1.06
Barium	mg/kg	149	196	190 J E, A	157 J A	187 J A	167 J E, A	154 J A
Boron	mg/kg	5.69 U	6.03 U	13.6	13.8	10.8	14.9	14.1
Cadmium	mg/kg	0.429	0.293	0.58	0.297 J E	0.259 J E	0.641	0.371 J E
Chromium	mg/kg	59.9	65.2	39.4 J Q, A	40.0 J Q, A	60.5 J Q, A	37.6 J Q, A	45.3 J Q, A
Cobalt	mg/kg	17.8	23.2	14.2 J E, A	12.8 J A	15.3 J A	13.2 J E, A	13.7 J A
Copper	mg/kg	26.6	26.6	24.5 J Q, E, A	18.8 J Q, A	26.3 J Q, A	24.0 J Q, E, A	21.6 J Q, A
Vanadium	mg/kg	113	121	72.8 J Q, A	67.0 J A	109 J A	71.0 J Q, A	83.6 J A
Zinc	mg/kg	107	109	108 J E	83	90.6	110 J E	85.4
Zirconium	mg/kg	8.16	9.23	2.41 J Z	6.03	5.25 J Z	3.34 J Z	5.00 J Z
Calcium	mg/kg	11900	8490	7510	8750	10900	7370	12100
Phosphorus	mg/kg	292	291	542	329	176	619	314
Selenium	mg/kg	0.200 J Z	0.0806 J Z	0.291 J Z	0.118 J Z	0.0989 J Z	0.348 J Z	0.148 J Z
Chromium VI	mg/kg	0.61 J Z	0.65 J Z	1.2 U	1.9	1.2 U	1.2 U	0.88 J Z
Perchlorate (314.0)	ug/kg	35.2 U	36.2 U	34.6 U	34.3 U	34.7 U	35.0 U	35.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.9 U
Percent Moisture	%	14.7	17.1	13.4	12.5	13.5	14.2	15
pH	pH unit	7.84	8.42	7.82	7.83	8	7.41	7.98

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-197-SA5DN-SB-9.0-10.0	SL-198-SA5DN-SS-0.0-0.5	SL-198-SA5DN-SB-4.0-5.0	SL-198-SA5DN-SB-9.0-10.0	SL-199-SA5DN-SS-0.0-0.5	SL-199-SA5DN-SB-4.0-5.0	SL-199-SA5DN-SB-9.0-10.0
Sample Date		06/30/2011	05/24/2011	08/05/2011	08/05/2011	05/25/2011	07/11/2011	07/11/2011
SDG		DE192	DE160	DE218	DE218	DE163	DE197	DE197
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	1.7 J Z	11.9	11	2.5	--	--	--
Fluoride	mg/kg	4.5 J Q	1.1 J Q	2.4 J Q	11.3 J Q	1.2 J Q	4.2 J Q	6.4 J Q
Cyanide	mg/kg	0.60 U	0.53 U	0.57 U	0.54 U	--	--	--
Aluminum	mg/kg	44900	19700	29800	25200	20900	33000	29000
Iron	mg/kg	39900	26600	32400	28900	24300	35800 J E	31500 J E
Lead	mg/kg	10.4 J Q, A	12.6 J Q, E, A	15.2 J Q, E	8.65 J Q, E	13.7 J Q	10.3 J E	8.44 J E
Lithium	mg/kg	33.1	31.8	28.1	27.2	22.9	28.9	29.9
Magnesium	mg/kg	8270	6100	7100	7130	5190	7910	7990
Manganese	mg/kg	292	336	455	350	393	455 J E	422 J E
Mercury	mg/kg	0.0119 J Z	0.152	0.0314 J Z	0.0120 J Z	0.0500 J Q, E, Z	0.111 U	0.108 U
Molybdenum	mg/kg	0.418	1.19	0.551 J Q	0.221 J Q	0.598	0.353 J E, Q	0.196 J E, Q
Nickel	mg/kg	20.6 J Q, A	22.6 J Q, E, A	33.6 J Q	19.4 J Q	14.5 J Q	24.3 J Q, E	20.1 J Q, E
Potassium	mg/kg	3160	4660	4730	3600	5420	5170	3740
Silver	mg/kg	0.0682 J Z	1.88	0.115 J Q	0.0482 J Q, Z	0.127	0.0436 J Z	0.0386 J Z
Sodium	mg/kg	199	112	197	417	67.2 J Z	131	212
Strontium	mg/kg	54.5	23.3	35.9	99.6	25.5 J E	40.4	119
Thallium	mg/kg	0.349	0.325	0.517 J Q	0.318 J Q	0.272	0.385	0.278
Tin	mg/kg	11.6 U B	10.6 U B	11.4 U B	10.8 U B	10.9 U B	11.4 U B	10.8 U B
Titanium	mg/kg	638	1240 J E	1240	1150	1180	949	1120
Antimony	mg/kg	0.234 UJ B, Q, E	0.167 J Q, Z	0.221 UJ B, Q	0.220 UJ Q	0.108 J Q, Z	0.135 J E, Q, Z	0.0953 J E, Q, Z
Arsenic	mg/kg	6.88 J A	6.55 J Q	7.72 J Q, E	5.36 J Q, E	3.75 J Q	5.67	5.47
Beryllium	mg/kg	1.01	0.567 J Q	1.17 J E, Q	0.683 J E, Q	0.551	1.06	0.819
Barium	mg/kg	139 J A	148 J E, A	197 J E	101 J E	112	144	121
Boron	mg/kg	12.2	6.97	12.7	13.4	4.28 J Z	5.72 U	5.40 U
Cadmium	mg/kg	0.0942 J E, Z	0.526	0.474 J Q	0.292 J Q	0.44	0.330 J Q	0.318 J Q
Chromium	mg/kg	45.2 J Q, A	26.9 J Q, A	42.6 J Q	27.2 J Q	18.8 J A	41.5 J Q	34.9 J Q
Cobalt	mg/kg	9.78 J A	8.31 J E, A	17.1 J E, Q	9.87 J E, Q	6.68	11.8	9.1
Copper	mg/kg	19.9 J Q, A	20.4 J Q, E, A	19.3	16.1	12.6 J E, Q	18.3 J E	16.9 J E
Vanadium	mg/kg	79.5 J A	42.8 J Q, A	76.6 J Q	51.2 J Q	34.4 J A	76.6 J Q, E	67.1 J Q, E
Zinc	mg/kg	68.3	142 J E	107 J E	59.6 J E	66.4	78.2 J A	64.8 J A
Zirconium	mg/kg	5.34 J Z	1.34 J Z	7.24	6.85	2.47 J Z	7.95	7.78
Calcium	mg/kg	13500	4450	6330 J E	54600 J E	3790 J E	9760 J E	68900 J E
Phosphorus	mg/kg	152	559	346 J Q	454 J Q	523 J E	307 J E	440 J E
Selenium	mg/kg	0.467 U	0.133 J Z	0.251 J Q, Z	0.0819 J Q, Z	0.150 J Z	0.160 J Z	0.0894 J Z
Chromium VI	mg/kg	0.63 J Z	1.1 U	0.52 J Z	1.1 U	0.75 J Z	0.51 J Z	0.35 J Z
Perchlorate (314.0)	ug/kg	36.1 U	33.1 U	34.9 U	33.4 U	33.0 U	35.0 U	33.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	16.9	9.3	14	10.1	9	14.3	10.9
pH	pH unit	8.11	7.55	7.28	8.45	6.39	8.09	8.54

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-200-SA5DN-SS-0.0-0.5	SL-200-SA5DN-SB-4.0-5.0	SL-200-SA5DN-SB-9.0-10.0	SL-201-SA5DN-SS-0.0-0.5	SL-201-SA5DN-SB-4.0-5.0	SL-201-SA5DN-SB-9.0-10.0	SL-202-SA5DN-SS-0.0-0.5
Sample Date		05/25/2011	07/06/2011	07/06/2011	05/25/2011	07/06/2011	07/06/2011	05/18/2011
SDG		DE164	DE194	DE194	DE164	DE194	DE194	DE154
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.4 J Q	2.8 J Q	6.1 J Q	1.2 UJ FD, Q	3.3 J Q	11.9 J Q	3.7 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	29100	32200	36400	27600	32400	31900	24000
Iron	mg/kg	36300	33100	38700	33800	37900	37000	29700
Lead	mg/kg	12.7 J E	14.3 J E, A	13.8 J E, A	13.9 J E	12.1 J E, A	12.3 J E, A	11.4 J Q, A
Lithium	mg/kg	25.2	28.3	33.2	23.2	29.9	31.5	21.2
Magnesium	mg/kg	8480	7780	8640	8020	8250	8540	6770
Manganese	mg/kg	466	443	463	440	464	383	423
Mercury	mg/kg	0.0267 J Z	0.111 U	0.113 U	0.0165 J Z	0.116 U	0.110 U	0.109 U B
Molybdenum	mg/kg	0.533 J E	0.688 J Q	1.55 J Q	0.483 J E	0.498 J Q	0.653 J Q	0.701 J Q
Nickel	mg/kg	21.7	31.9 J E, Q, A	32.7 J E, Q, A	20.9	27.4 J E, Q, A	30.8 J E, Q, A	16.5 J Q, A
Potassium	mg/kg	8260	6100	4870	7380	4980	4600	4100 J Q
Silver	mg/kg	0.0420 J Z	0.0445 J Q, Z	0.0454 J Q, Z	0.0461 J Z	0.0702 J Q, Z	0.0688 J Q, Z	0.0383 J Q, Z
Sodium	mg/kg	91.6 J Z	93.2 J Z	191	121	114 J Z	193	131
Strontium	mg/kg	42.1	43.8	45.7	73.6	45.3	35.6	39.5
Thallium	mg/kg	0.367	0.529	0.431	0.401	0.402	0.416	0.397 J Q
Tin	mg/kg	11.3 U B	11.1 U B	11.6 U B	11.6 U B	11.6 U B	11.7 U B	11.1 U B
Titanium	mg/kg	1220	1570	1660	1210	1240	1370	1160
Antimony	mg/kg	0.291 J Q	0.337 J Q	0.395 J Q	0.291 J Q	0.263 J Q	0.204 J Q, Z	0.296
Arsenic	mg/kg	6.64 J E	9.25 J E, A	10.0 J E, A	6.40 J E	7.87 J E, A	9.35 J E, A	8.18 J Q
Beryllium	mg/kg	0.742	1.30 J Q	1.27 J Q	0.724	1.10 J Q	1.25 J Q	0.624 J Q
Barium	mg/kg	115	180 J E, A	155 J E, A	118	144 J E, A	155 J E, A	140
Boron	mg/kg	22	5.57 U	5.82 U	21.9	5.79 U	5.84 U	23
Cadmium	mg/kg	0.424	0.454 J Q	0.324 J Q	0.387	0.298 J Q	0.297 J Q	0.320 J Q
Chromium	mg/kg	30.1 J *#	56.4 J E, A	56.3 J E, A	29.4 J *#	47.2 J E, A	56.5 J E, A	27.1 J Q, A
Cobalt	mg/kg	10.9	17.1 J E, Q, A	17.0 J E, Q, A	10.7	14.9 J E, Q, A	15.2 J E, Q, A	8.31 J Q, A
Copper	mg/kg	19.6	26.7 J E, Q	25.4 J E, Q	18.5	21.6 J E, Q	26.5 J E, Q	18.1 J Q, A
Vanadium	mg/kg	55.6 J *#	108 J E, A	97.3 J E, A	55.1 J *#	91.2 J E, A	108 J E, A	60.6 J A
Zinc	mg/kg	83.7	109 J E, A	102 J E, A	81.4	90.1 J E, A	99.5 J E, A	86.5 J A
Zirconium	mg/kg	1.80 J Z	6.38	9.49	2.13 J FD, Z	8.35	8.18	2.83 J Z
Calcium	mg/kg	15400	19900	10600	34400	12400	7100	8040
Phosphorus	mg/kg	757	440	329	694	288	382	446
Selenium	mg/kg	0.310 J Z	0.243 J Z	0.192 J Z	0.316 J Z	0.258 J Z	0.179 J Z	0.143 J Z
Chromium VI	mg/kg	0.94 J Z	0.58 J Z	0.45 J Z	1.2 UJ FD	0.67 J Z	0.35 J Z	0.35 J Z
Perchlorate (314.0)	ug/kg	34.7 U	34.8 U	35.3 U	35.5 U	35.1 U	35.4 U	33.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	13.5	13.7	14.9	15.5	14.5	15.3	11.1
pH	pH unit	7.99	7.88	8.11	8.09	7.99	7.88	7.97

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R - Result is rejected

Sample Name		SL-202-SA5DN-SB-4.0-5.0	SL-202-SA5DN-SB-9.0-10.0	SL-203-SA5DN-SS-0.0-0.5	SL-203-SA5DN-SB-4.0-5.0	SL-203-SA5DN-SB-9.0-10.0	SL-204-SA5DN-SS-0.0-0.5	SL-204-SA5DN-SB-4.0-5.0
Sample Date		06/13/2011	06/13/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011
SDG		DE179	DE179	DE161	DE192	DE192	DE161	DE216
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	5.6 J Q	6.9 J Q	1.9 J Q	1.7 J Q	9.1 J Q	2.6 J Q	3.7 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	38800	29400	27500 J A	34200	34100	34700 J A	31200
Iron	mg/kg	42300	33400	28300	36900	33000	34100	32500
Lead	mg/kg	16.1 J E, Q	10.6 J E, Q	10.3 J Q, E, A	10.4 J Q, A	9.49 J Q, A	10.9 J Q, E, A	14.3 J E, *#
Lithium	mg/kg	32.1	24.8	22.3	27.1	23.6	28.9	25.5
Magnesium	mg/kg	9350	6390	6380 J A	7620	6740	7950 J A	7250
Manganese	mg/kg	596	440	468 J A	468	151	513 J A	453
Mercury	mg/kg	0.120 U	0.114 U	0.0114 J Z	0.116 U	0.109 U	0.112 U	0.110 U
Molybdenum	mg/kg	0.434	0.391	0.374	0.428	0.34	0.412	1.03
Nickel	mg/kg	35.5	21.6	14.9 J Q, E, A	26.1 J Q, A	19.2 J Q, A	22.6 J Q, E, A	27.7 J E, Q, *#
Potassium	mg/kg	4230 J Q	3480 J Q	7390 J Q	4770	2460	6760 J Q	5860
Silver	mg/kg	0.0636 J Z	0.0593 J Z	0.0372 J Z	0.0459 J Z	0.0183 J Z	0.0635 J Z	0.0757 J E, Z
Sodium	mg/kg	258	223	79.5 J Z	134	333	103 J Z	78.2 J Z
Strontium	mg/kg	49.8	37.3	33.4 J A	44.2	48.5	40.3 J A	36.5
Thallium	mg/kg	0.471	0.347	0.272	0.383	0.325	0.403	0.438 J Q, E
Tin	mg/kg	12.1 U B	11.3 U B	11.5 U B	11.5 U B	11.1 U B	11.7 U B	10.7 U B
Titanium	mg/kg	1680 J L	1490 J L	1420	1050	622	1640	1290
Antimony	mg/kg	0.241 UJ B, Q	0.226 UJ B, Q	0.254 J Q	0.225 UJ B, Q, E	0.229 UJ B, Q, E	0.143 J Q, Z	0.225 J Q
Arsenic	mg/kg	10.5	7.04	3.97 J E, A	6.59 J A	7.85 J A	6.36 J E, A	7.52 J E, Q
Beryllium	mg/kg	1.32	1.02	0.546 J Q, E	1.04	0.769	0.834 J Q, E	1.14 J E, Q
Barium	mg/kg	198	140	95.5 J E, A	150 J A	114 J A	152 J E, A	167 J E, *#
Boron	mg/kg	9.1	4.94 J Z	6.12	12.4	9.83	6.14	14
Cadmium	mg/kg	0.512	0.259	0.37	0.258 J E	0.0908 J E, Z	0.355	0.405
Chromium	mg/kg	55.9	40.2	21.8 J Q, E, A	44.2 J Q, A	42.1 J Q, A	34.0 J Q, E, A	46.9 J E, *#
Cobalt	mg/kg	21.5	9.63	7.63 J E, A	13.4 J A	7.10 J A	11.3 J E, A	13.7 J E, *#
Copper	mg/kg	25.0 J E	17.4 J E	13.7 J Q, E, A	20.5 J Q, A	17.0 J Q, A	18.1 J Q, E, A	22.5 J E, Q, *#
Vanadium	mg/kg	109	77.6	41.2 J E, A	79.8 J A	75.5 J A	64.0 J E, A	88.9 J E, *#
Zinc	mg/kg	95	72	59.3 J A	83.3	60.6	79.4 J A	93.8 J E, *#
Zirconium	mg/kg	7.74	5.71	6.81	4.20 J Z	4.31 J Z	8.04	2.27 J E, Z
Calcium	mg/kg	10600 J E	11400 J E	6760 J A	8240	22400	13100 J A	9170
Phosphorus	mg/kg	549 J Q	372 J Q	483	286	149	426	481 J Q
Selenium	mg/kg	0.104 J Z	0.452 U	0.168 J Z	0.133 J Z	0.458 U	0.173 J Z	0.257 J Z
Chromium VI	mg/kg	0.47 J Z	0.54 J Z	1.2 U B	0.56 J Z	1.2	1.2 U B	0.54 J Z
Perchlorate (314.0)	ug/kg	36.2 U	35.3 U	52.6	35.2 U	34.7 U	35.2 U	33.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	17.1	14.9	15	14.7	13.5	14.7	9.8
pH	pH unit	7.72	8.1	7.58	7.9	8.84	8.05	7.96

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-204-SA5DN-SB-9.0-10.0	SL-205-SA5DN-SS-0.0-0.5	SL-205-SA5DN-SB-4.0-5.0	SL-205-SA5DN-SB-9.0-10.0	SL-206-SA5DN-SS-0.0-0.5	SL-206-SA5DN-SB-4.0-5.0	SL-207-SA5DN-SS-0.0-0.5
Sample Date		08/04/2011	05/25/2011	07/06/2011	07/06/2011	05/17/2011	05/19/2011	06/03/2011
SDG		DE216	DE164	DE194	DE194	DE152	DE156	DE173
Start Depth		9	0	4	9	0	4	0
End Depth		10	0.5	5	10	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	4.5
Fluoride	mg/kg	3.9 J Q	1.2 UJ Q	3.3 J Q	7.2 J Q	2.5 J Q	16.0 J Q	3.8 J Q
Cyanide	mg/kg	--	--	--	--	--	--	0.52 U
Aluminum	mg/kg	35300	28700	31400	31900	25700	22400	27700
Iron	mg/kg	36400	34200	32400	37200	32100	25600	28800
Lead	mg/kg	12.2 J E, *#	13.5 J E	12.9 J E, A	16.9 J E, A	12.5	8.40 J Q, E, A	25.1 J E, Q
Lithium	mg/kg	29.5	24.1	26.7	30	22.7	21.1	21.6
Magnesium	mg/kg	8110	8210	7470	8540	5830	5000	5790
Manganese	mg/kg	503	445	461	383	411	143	484
Mercury	mg/kg	0.115 U	0.0137 J Z	0.0095 J Z	0.117 U	1.79	0.0089 J Z	0.103 U B
Molybdenum	mg/kg	0.403	0.504 J E	0.613 J Q	0.832 J Q	0.624	0.204 J Q, E	0.797 J E, Q
Nickel	mg/kg	28.3 J E, Q, *#	21.2	31.2 J E, Q, A	37.5 J E, Q, A	24	15.3 J Q, E, A	19.5 J Q, A
Potassium	mg/kg	4810	8230	6050	4660	4440	2110 J Q	4750
Silver	mg/kg	0.0506 J E, Z	0.0388 J Z	0.0548 J Q, Z	0.0563 J Q, Z	0.0631 J Z	0.0796 J Q, E, Z	0.0572 J Q, Z
Sodium	mg/kg	103 J Z	109 J Z	99.0 J Z	200	94.2 J Z	411	94.7 J Z
Strontium	mg/kg	47.9	55.8	42.3	44.9	32.2	27.4	35.8
Thallium	mg/kg	0.447 J Q, E	0.383	0.466	0.529	0.37	0.28	0.326 J Q
Tin	mg/kg	11.6 U B	11.5 U B	11.1 U B	11.5 U B	10.9 U B	11.3 U B	10.5 U B
Titanium	mg/kg	1390	1270	1580	1230	1170	1160 J E	1490
Antimony	mg/kg	0.159 J Q, Z	0.290 J Q	0.310 J Q	0.553 J Q	0.463	0.174 J Q, E, Z	0.575 J Q
Arsenic	mg/kg	7.12 J E, Q	6.23 J E	8.47 J E, A	11.6 J E, A	9.27	6.35 J Q, E	7.67 J E, Q
Beryllium	mg/kg	1.14 J E, Q	0.718	1.19 J Q	1.42 J Q	1	0.795 J Q, E	0.814 J E, Q
Barium	mg/kg	177 J E, *#	114	166 J E, A	193 J E, A	159	119 J E, A	150 J E, A
Boron	mg/kg	15.5	22.1	5.57 U	5.73 U	22.1	5.63 U	5.27 U
Cadmium	mg/kg	0.444	0.398	0.432 J Q	0.304 J Q	0.646	0.0900 J E, Q, Z	0.696 J Q
Chromium	mg/kg	47.0 J E, *#	29.1 J *#	54.0 J E, A	66.6 J E, A	28.2	33.8 J Q, E, A	30.4 J Q
Cobalt	mg/kg	13.2 J E, *#	10.5	16.6 J E, Q, A	20.8 J E, Q, A	12.5	5.70 J Q, E, A	12.5 J E, Q
Copper	mg/kg	20.5 J E, Q, *#	18.5	26.2 J E, Q	29.8 J E, Q	20.5	15.0 J Q, E, A	20.3 J Q
Vanadium	mg/kg	87.6 J E, *#	54.6 J *#	104 J E, A	124 J E, A	66.3	52.7 J Q, E, A	56.5
Zinc	mg/kg	92.7 J E, *#	81.8	103 J E, A	122 J E, A	106	63.5 J E	246
Zirconium	mg/kg	4.36 J E, Z	1.32 J Z	8.78	8.08	2.56 J Z	4.76 J Z	7.81
Calcium	mg/kg	12200	23000	12400	8280	5150	5210 J E	6710
Phosphorus	mg/kg	345 J Q	742	361	334	329	130 J Q	316
Selenium	mg/kg	0.137 J Z	0.300 J Z	0.206 J Z	0.361 J Z	0.185 J Z	0.0537 J Z	0.208 J Q, Z
Chromium VI	mg/kg	0.54 J Z	1.2 U	0.77 J Z	0.72 J Z	0.47 J Z	1.1 U	0.37 J Z
Perchlorate (314.0)	ug/kg	35.1 U	35.0 U	34.8 U	35.4 U	34.1 U	34.4 U	32.2 U
Perchlorate (6850)	ug/kg	--	--	--	5.9 U	--	--	--
Percent Moisture	%	14.5	14.2	13.7	15.3	12	12.9	6.9
pH	pH unit	7.93	8.01	7.96	7.85	7.03	8.4	7.81

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J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-207-SA5DN-SB-4.0-5.0
	Sample Date	08/11/2011
	SDG	DE222
	Start Depth	4
	End Depth	5
Chemical Name	Unit	
Nitrate	mg/kg	2.1
Fluoride	mg/kg	24.4 J Q
Cyanide	mg/kg	0.55 U
Aluminum	mg/kg	33300
Iron	mg/kg	34100
Lead	mg/kg	10.6
Lithium	mg/kg	24.9
Magnesium	mg/kg	6890
Manganese	mg/kg	246
Mercury	mg/kg	0.106 U
Molybdenum	mg/kg	0.186
Nickel	mg/kg	23.1
Potassium	mg/kg	2520
Silver	mg/kg	0.0366 J Z
Sodium	mg/kg	641
Strontium	mg/kg	55.7
Thallium	mg/kg	0.285
Tin	mg/kg	11.0 U B
Titanium	mg/kg	1130
Antimony	mg/kg	0.145 J Q, Z
Arsenic	mg/kg	7.35
Beryllium	mg/kg	1.05
Barium	mg/kg	133
Boron	mg/kg	8.67
Cadmium	mg/kg	0.201
Chromium	mg/kg	37.5
Cobalt	mg/kg	11.9
Copper	mg/kg	15.3
Vanadium	mg/kg	71.1 J Q
Zinc	mg/kg	56.1
Zirconium	mg/kg	4.18 J Z
Calcium	mg/kg	37600
Phosphorus	mg/kg	167
Selenium	mg/kg	0.457 U
Chromium VI	mg/kg	1.1 U
Perchlorate (314.0)	ug/kg	34.2 U
Perchlorate (6850)	ug/kg	--
Percent Moisture	%	12.4
pH	pH unit	8.74

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R - Result is rejected

Sample Name		SL-003-SA5DN-SB-0.5-1.5	SL-003-SA5DN-SB-8.0-9.0	SL-004-SA5DN-SB-3.5-4.5	SL-004-SA5DN-SB-9.0-10.0	SL-012-SA5DN-SS-0.0-0.5	SL-012-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SB-9.0-10.0
Sample Date		05/16/2011	05/16/2011	05/16/2011	05/16/2011	05/23/2011	08/09/2011	08/09/2011
SDG		DE151	DE151	DE151	DE151	DE160	DE220	DE220
Start Depth		0.5	8	3.5	9	0	4	9
End Depth		1.5	9	4.5	10	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	600 U	560 U	600 U	570 U	560 U	520 U	580 U
Methanol	ug/kg	230 J Z	560 U	630	570 U	560 U	520 U	580 U
2-Propanol	ug/kg	600 U	560 U	600 U	570 U	560 U	520 U	580 U
Ethylene Glycol	mg/kg	12 U	11 U	12 U	11 U	11 U	10 U	12 U
Diethylene Glycol	mg/kg	12 U	11 U	12 U	11 U	11 UJ Q	10 U	12 U
Propylene glycol	mg/kg	12 U	11 U	12 U	11 U	11 U	10 U	12 U
o-Terphenyl	mg/kg	4.2 U	3.9 U	4.2 U	3.9 U	3.9 U	3.7 U	4.1 U
m-Terphenyl	mg/kg	4.2 U	3.9 U	4.2 U	3.9 U	3.9 U	3.7 U	4.1 U
p-Terphenyl	mg/kg	4.2 U	3.9 U	4.2 U	3.9 U	3.9 U	3.7 U	4.1 U
Formaldehyde	ug/kg	6600	1600 U	1800 U	1700 U	1700 U	660 J Z	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
RDX	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
HMX	ug/kg	360 U	320 U	350 U	330 U	340 U	310 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
Tetryl	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
Nitroglycerin	ug/kg	2900 U	2600 U	2800 U	2700 U	2700 U	2500 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	290 U	260 R L	280 R L	270 R L	270 U	250 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	290 U	260 R L	280 R L	270 R L	270 U	250 U	280 U
PETN	ug/kg	2900 U	2600 U	2800 U	2700 U	2700 U	2500 U	2800 U
2-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
3-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
4-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
Nitrobenzene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U
m-Dinitrobenzene	ug/kg	140 U	130 U	140 U	130 U	130 U	130 U	140 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-013-SA5DN-SS-0.0-0.5	SL-013-SA5DN-SB-4.0-5.0	SL-013-SA5DN-SB-9.0-10.0	SL-014-SA5DN-SS-0.0-0.5	SL-014-SA5DN-SB-4.0-5.0	SL-014-SA5DN-SB-9.0-10.0	SL-015-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	05/31/2011	05/31/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011
SDG		DE160	DE168	DE168	DE160	DE169	DE169	DE159
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	520 U	580 U	570 U	550 U	570 U	580 U	570 U
Methanol	ug/kg	520 U	330 J Z	570 U	550 U	570 UJ FD	580 U	570 U
2-Propanol	ug/kg	520 U	580 U	570 U	550 U	570 U	580 U	570 U
Ethylene Glycol	mg/kg	10 U	12 U	11 U	11 U	11 UJ Q	12 U	11 U
Diethylene Glycol	mg/kg	10 U	12 U	11 U	11 U	11 UJ Q	12 U	11 U
Propylene glycol	mg/kg	10 U	12 U	11 U	11 U	11 UJ Q	12 U	11 U
o-Terphenyl	mg/kg	3.6 U	4.0 U	4.0 U	3.9 U	4.0 U	4.1 U	4.0 U
m-Terphenyl	mg/kg	3.6 U	4.0 U	4.0 U	3.9 U	4.0 UJ Q	4.1 U	4.0 U
p-Terphenyl	mg/kg	3.6 U	4.0 U	4.0 U	3.9 U	4.0 U	4.1 U	4.0 U
Formaldehyde	ug/kg	1600 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 UJ L
2,6-Dinitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
RDX	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
HMX	ug/kg	290 U	320 U	320 U	330 U	340 U	330 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
Tetryl	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2300 U	2600 U	2500 U	2600 U	2700 U	2600 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	230 U	260 U	250 U	260 U	270 U	260 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	230 U	260 U	250 U	260 U	270 U	260 U	270 U
PETN	ug/kg	2300 U	2600 U	2500 U	2600 U	2700 U	2600 U	2700 U
2-Nitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	120 U	130 U	130 U	130 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	120 U	130 U	130 U	130 U	130 U	47 J Z	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-015-SA5DN-SB-4.0-5.0	SL-015-SA5DN-SB-12.0-13.0	SL-016-SA5DN-SS-0.0-0.5	SL-016-SA5DN-SB-4.0-5.0	SL-016-SA5DN-SB-12.0-13.0	SL-018-SA5DN-SS-0.0-0.5	SL-018-SA5DN-SB-4.0-5.0
Sample Date		06/01/2011	06/01/2011	05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/01/2011
SDG		DE170	DE170	DE159	DE172	DE172	DE160	DE170
Start Depth		4	12	0	4	12	0	4
End Depth		5	13	0.5	5	13	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	550 U	560 U	590 U	570 U	550 U	550 U
Methanol	ug/kg	580 U	550 U	560 U	590 U	460 J Z	550 U	550 U
2-Propanol	ug/kg	580 U	550 U	560 U	590 U	570 U	550 U	550 U
Ethylene Glycol	mg/kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
Propylene glycol	mg/kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	4.1 U	3.8 U	1.9 J S, Z	4.1 U	4.0 U	3.8 U	3.8 U
m-Terphenyl	mg/kg	4.1 U	3.8 U	5.3 J S	4.1 R Q	4.0 U	3.8 U	3.8 U
p-Terphenyl	mg/kg	4.1 U	3.8 U	3.9 U	4.1 R Q	4.0 U	3.8 U	3.8 U
Formaldehyde	ug/kg	1700 U	1600 U	1700 UJ L	1800 U	1700 U	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
RDX	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
HMX	ug/kg	340 U	330 U	340 U	350 U	330 U	330 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
Tetryl	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2700 U	2600 U	2700 U	2800 U	2700 U	2600 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	260 U	270 U	280 U	270 U	260 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	260 U	270 U	280 U	270 U	260 U	270 U
PETN	ug/kg	2700 U	2600 U	2700 U	2800 U	2700 U	2600 U	2700 U
2-Nitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	140 U	130 U	130 U	140 U	130 U	130 U	70 J Z

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-018-SA5DN-SB-7.5-8.5	SL-019-SA5DN-SS-0.0-0.5	SL-019-SA5DN-SB-4.0-5.0	SL-019-SA5DN-SB-9.0-10.0	SL-020-SA5DN-SS-0.0-0.5	SL-020-SA5DN-SB-3.5-4.5	SL-021-SA5DN-SS-0.0-0.5
Sample Date		06/01/2011	05/23/2011	06/03/2011	06/03/2011	05/20/2011	06/15/2011	05/23/2011
SDG		DE172	DE159	DE173	DE173	DE158	DE181	DE159
Start Depth		7.5	0	4	9	0	3.5	0
End Depth		8.5	0.5	5	10	0.5	4.5	0.5
Chemical Name	Unit							
Ethanol	ug/kg	550 U	580 U	580 U	560 U	530 U	560 U	580 U
Methanol	ug/kg	550 U	580 U	580 U	560 U	530 U	560 U	580 U
2-Propanol	ug/kg	550 U	580 U	580 U	560 U	530 U	560 U	580 U
Ethylene Glycol	mg/kg	11 U	12 U	12 U	11 U	11 U	11 U	12 U
Diethylene Glycol	mg/kg	11 U	12 U	12 U	11 U	11 U	11 U	12 U
Propylene glycol	mg/kg	11 U	12 U	12 U	11 U	11 U	11 U	12 U
o-Terphenyl	mg/kg	3.9 U	4.1 U	4.0 U	3.9 U	3.7 U	3.9 U	4.1 U
m-Terphenyl	mg/kg	3.9 U	4.1 U	4.0 U	3.9 U	3.7 U	3.9 U	4.1 U
p-Terphenyl	mg/kg	3.9 U	4.1 U	4.0 U	3.9 U	3.7 U	3.9 U	4.1 U
Formaldehyde	ug/kg	1700 U	1700 UJ L	1700 UJ S	1700 U	1600 U	1700 U	1700 UJ L
2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
RDX	ug/kg	130 U	130 U	140 U	130 U	130 UJ Q	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
HMX	ug/kg	330 U	330 U	350 U	330 U	320 UJ L	340 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
Tetryl	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
Nitroglycerin	ug/kg	2700 U	2700 U	2800 U	2700 U	2500 UJ Q, L	2700 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	270 U	280 U	270 U	250 U	270 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	270 U	280 U	270 U	250 U	670 U	270 U
PETN	ug/kg	2700 U	2700 U	2800 U	2700 U	2500 U	2700 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	140 U	130 U	130 UJ Q	130 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	140 U	130 U	130 U	130 U	140 U
m-Dinitrobenzene	ug/kg	78 J Z	130 U	140 U	130 U	130 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA5DN-SB-4.0-5.0	SL-021-SA5DN-SB-19.5-20.5	SL-022-SA5DN-SS-0.0-0.5	SL-022-SA5DN-SB-4.0-5.0	SL-022-SA5DN-SB-15.0-16.0	SL-023-SA5DN-SS-0.0-0.5	SL-023-SA5DN-SB-4.0-5.0
Sample Date		06/02/2011	06/02/2011	05/23/2011	06/06/2011	06/06/2011	05/23/2011	06/08/2011
SDG		DE172	DE172	DE159	DE174	DE174	DE159	DE176
Start Depth		4	19.5	0	4	15	0	4
End Depth		5	20.5	0.5	5	16	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	570 U	560 U	570 U	570 U	540 U	570 U	570 U
Methanol	ug/kg	570 U	210 J Z	570 U	570 U	540 U	570 U	570 U
2-Propanol	ug/kg	570 U	560 U	570 U	570 U	540 U	570 U	570 U
Ethylene Glycol	mg/kg	11 U	11 U	11 UJ Q	11 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	11 UJ Q	11 U	11 U	11 U	11 U
Propylene glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	4.0 U	3.9 U	4.0 U	4.0 U	3.8 U	4.0 U	4.0 U
m-Terphenyl	mg/kg	4.0 U	3.9 U	4.0 U	4.0 U	3.8 U	4.0 U	4.0 U
p-Terphenyl	mg/kg	4.0 U	3.9 U	4.0 U	4.0 U	3.8 U	4.0 U	4.0 U
Formaldehyde	ug/kg	1700 U	1700 UJ S	1700 UJ Q, L	1700 U	1600 U	1700 UJ L	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
RDX	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
HMX	ug/kg	330 U	310 U	340 U	340 U	300 U	340 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
Tetryl	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
Nitroglycerin	ug/kg	2700 U	2500 U	2700 U	2700 U	2400 U	2700 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	250 U	270 U	270 U	240 U	270 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	250 U	270 U	270 U	240 U	270 U	260 U
PETN	ug/kg	2700 U	2500 U	2700 U	2700 U	2400 U	2700 U	2600 U
2-Nitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	120 U	140 U	140 U	120 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics-Validated Data
HSA-5DN

Sample Name		SL-023-SA5DN-SB-20.0-21.0	SL-024-SA5DN-SS-0.0-0.5	SL-024-SA5DN-SB-4.0-5.0	SL-024-SA5DN-SB-19.0-20.0	SL-025-SA5DN-SS-0.0-0.5	SL-025-SA5DN-SB-4.0-5.0	SL-025-SA5DN-SB-23.0-24.0
Sample Date		06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/08/2011	06/08/2011
SDG		DE176	DE158	DE175	DE175	DE158	DE176	DE176
Start Depth		20	0	4	19	0	4	23
End Depth		21	0.5	5	20	0.5	5	24
Chemical Name	Unit							
Ethanol	ug/kg	550 U	580 U	570 U	560 U	580 U	560 U	550 U
Methanol	ug/kg	550 U	580 U	570 U	560 U	580 U	560 U	550 U
2-Propanol	ug/kg	550 U	580 U	570 U	560 U	580 U	560 U	550 U
Ethylene Glycol	mg/kg	11 U	12 U	11 UJ Q	11 U	12 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	12 U	11 UJ Q	11 U	12 U	11 U	11 U
Propylene glycol	mg/kg	11 U	12 U	11 UJ Q	11 U	12 U	11 U	11 U
o-Terphenyl	mg/kg	3.8 U	4.0 U	4.0 U	3.9 U	4.1 U	3.9 U	3.9 U
m-Terphenyl	mg/kg	3.8 U	4.0 U	4.0 UJ Q	3.9 U	4.1 U	3.9 U	3.9 U
p-Terphenyl	mg/kg	3.8 U	4.0 U	4.0 U	3.9 U	4.1 U	3.9 U	3.9 U
Formaldehyde	ug/kg	1600 U	1700 U	1700 U	1700 U	1800 U	1700 U	1600 U
2,6-Dinitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
2,4,6-Trinitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
RDX	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
4-Amino-2,6-Dinitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
HMX	ug/kg	310 U	340 UJ L	330 U	310 U	340 UJ L	330 U	310 U
2-Amino-4,6-Dinitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
Tetryl	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
Nitroglycerin	ug/kg	2400 U	2700 UJ L	2700 U	2500 U	2700 UJ L	2700 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	240 U	270 U	270 U	250 U	270 U	270 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	240 U	270 U	270 U	250 U	270 U	270 U	250 U
PETN	ug/kg	2400 U	2700 U	2700 U	2500 U	2700 U	2700 U	2500 U
2-Nitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
3-Nitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
1,3,5-Trinitrobenzene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
4-Nitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
2,4-Dinitrotoluene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
Nitrobenzene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U
m-Dinitrobenzene	ug/kg	120 U	140 U	130 U	120 U	140 U	130 U	120 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-026-SA5DN-SS-0.0-0.5	SL-026-SA5DN-SB-4.0-5.0	SL-026-SA5DN-SB-17.0-18.0	SL-027-SA5DN-SS-0.0-0.5	SL-027-SA5DN-SB-4.0-5.0	SL-027-SA5DN-SB-14.0-15.0	SL-028-SA5DN-SS-0.0-0.5
Sample Date		05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/03/2011	06/03/2011	05/20/2011
SDG		DE158	DE175	DE175	DE158	DE173	DE173	DE158
Start Depth		0	4	17	0	4	14	0
End Depth		0.5	5	18	0.5	5	15	0.5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	600 U	550 U	580 U	570 U	550 U	580 U
Methanol	ug/kg	580 U	600 U	550 U	580 U	570 U	550 U	580 U
2-Propanol	ug/kg	580 U	600 U	550 U	580 U	570 U	550 U	580 U
Ethylene Glycol	mg/kg	12 U	12 U	11 U	12 U	11 U	11 U	12 U
Diethylene Glycol	mg/kg	12 U	12 U	11 U	12 U	11 U	11 U	12 U
Propylene glycol	mg/kg	12 U	12 U	11 U	12 U	11 U	11 U	12 U
o-Terphenyl	mg/kg	4.0 U	4.2 U	3.8 U	4.0 U	4.0 U	3.9 U	4.1 U
m-Terphenyl	mg/kg	4.0 U	4.2 U	3.8 U	4.0 U	4.0 U	3.9 U	4.1 U
p-Terphenyl	mg/kg	4.0 U	4.2 U	3.8 U	4.0 U	4.0 U	3.9 U	4.1 U
Formaldehyde	ug/kg	1700 U	1800 U	1600 U	1700 U	1700 UJ S	1600 UJ S	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
RDX	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
HMX	ug/kg	350 UJ L	350 U	320 U	350 UJ L	340 U	330 U	350 UJ L
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
Tetryl	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
Nitroglycerin	ug/kg	2800 UJ L	2800 U	2600 U	2800 UJ L	2700 U	2600 U	2800 UJ L
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	280 U	260 U	280 U	270 U	260 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	280 U	260 U	280 U	270 U	260 U	280 U
PETN	ug/kg	2800 U	2800 U	2600 U	2800 U	2700 U	2600 U	2800 U
2-Nitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
3-Nitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
4-Nitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
Nitrobenzene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U
m-Dinitrobenzene	ug/kg	140 U	140 U	130 U	140 U	140 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA5DN-SB-4.0-5.0	SL-028-SA5DN-SB-11.5-12.5	SL-029-SA5DN-SS-0.0-0.5	SL-029-SA5DN-SB-4.0-5.0	SL-030-SA5DN-SS-0.0-0.5	SL-030-SA5DN-SB-4.0-5.0	SL-031-SA5DN-SS-0.0-0.5
Sample Date		06/08/2011	06/08/2011	05/20/2011	06/15/2011	05/19/2011	06/15/2011	05/19/2011
SDG		DE176	DE176	DE158	DE181	DE157	DE181	DE157
Start Depth		4	11.5	0	4	0	4	0
End Depth		5	12.5	0.5	5	0.5	5	0.5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	560 U	580 U	570 U	580 U	570 U	580 U
Methanol	ug/kg	580 U	560 U	580 U	570 U	580 U	570 U	580 U
2-Propanol	ug/kg	580 U	560 U	580 U	570 U	580 U	570 U	580 U
Ethylene Glycol	mg/kg	12 U	11 U	12 U	11 U	12 U	11 U	12 U
Diethylene Glycol	mg/kg	12 U	11 U	12 U	11 U	12 U	11 UJ Q	12 U
Propylene glycol	mg/kg	12 U	11 U	12 U	11 U	12 U	11 U	12 U
o-Terphenyl	mg/kg	4.1 U	3.9 U	4.1 U	4.0 U	8.1 U	4.0 U	4.1 U
m-Terphenyl	mg/kg	4.1 U	3.9 U	4.1 U	4.0 U	8.1 U	4.0 U	4.1 U
p-Terphenyl	mg/kg	4.1 U	3.9 U	4.1 U	4.0 U	8.1 U	4.0 U	4.1 U
Formaldehyde	ug/kg	1800 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
RDX	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
HMX	ug/kg	340 U	330 U	350 UJ L	340 U	350 U	340 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
Tetryl	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	2800 U	2600 U	2800 UJ L	2700 U	2800 U	2800 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	260 U	280 U	270 U	280 U	280 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	260 U	280 U	270 U	280 U	280 U	270 U
PETN	ug/kg	2800 U	2600 U	2800 U	2700 U	2800 U	2800 U	2700 U
2-Nitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-031-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SS-0.0-0.5	SL-032-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SB-10.0-11.0	SL-033-SA5DN-SS-0.0-0.5	SL-033-SA5DN-SB-4.0-5.0	SL-033-SA5DN-SB-11.0-12.0
Sample Date		06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/19/2011	06/14/2011	06/14/2011
SDG		DE181	DE157	DE180	DE180	DE157	DE180	DE180
Start Depth		4	0	4	10	0	4	11
End Depth		5	0.5	5	11	0.5	5	12
Chemical Name	Unit							
Ethanol	ug/kg	570 U	560 U	570 U	550 U	580 U	580 U	560 U
Methanol	ug/kg	570 U	560 U	570 U	550 U	580 U	580 U	560 U
2-Propanol	ug/kg	570 U	560 U	570 U	550 U	580 U	580 U	560 U
Ethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	12 U	12 UJ Q	11 U
Propylene glycol	mg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U
o-Terphenyl	mg/kg	4.0 U	7.8 U	4.0 U	3.8 U	4.1 U	4.1 U	3.9 U
m-Terphenyl	mg/kg	4.0 U	7.8 U	4.0 U	3.8 U	4.1 U	4.1 UJ Q	3.9 U
p-Terphenyl	mg/kg	4.0 U	7.8 U	4.0 U	3.8 U	4.1 U	4.1 U	3.9 U
Formaldehyde	ug/kg	1700 U	1700 U	1700 U	1600 U	1700 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
RDX	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
HMX	ug/kg	340 U	330 U	340 U	330 U	340 U	350 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
Tetryl	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
Nitroglycerin	ug/kg	2800 U	2600 U	2700 U	2600 U	2800 U	2800 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	260 U	270 U	260 U	280 U	280 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	260 U	270 U	260 U	280 U	280 U	270 U
PETN	ug/kg	2800 U	2600 U	2700 U	2600 U	2800 U	2800 U	2700 U
2-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
3-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
4-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
Nitrobenzene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U
m-Dinitrobenzene	ug/kg	140 U	130 U	140 U	130 U	140 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-034-SA5DN-SS-0.0-0.5	SL-034-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SS-0.0-0.5	SL-035-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SB-9.5-10.5	SL-036-SA5DN-SS-0.0-0.5	SL-036-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/20/2011	06/07/2011
SDG		DE157	DE181	DE157	DE180	DE180	DE158	DE175
Start Depth		0	4	0	4	9.5	0	4
End Depth		0.5	5	0.5	5	10.5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	550 U	580 U	580 U	590 U	560 U	570 U	590 U
Methanol	ug/kg	550 U	580 U	580 U	590 U	560 U	570 U	590 U
2-Propanol	ug/kg	550 U	580 U	580 U	590 U	560 U	570 U	590 U
Ethylene Glycol	mg/kg	11 U	12 U	12 U	12 U	11 U	11 U	12 U
Diethylene Glycol	mg/kg	11 U	12 U	12 U	12 U	11 U	11 U	12 U
Propylene glycol	mg/kg	11 U	12 U	12 U	12 U	11 U	11 U	12 U
o-Terphenyl	mg/kg	7.7 U	4.0 U	4.0 U	4.1 U	3.9 U	4.0 U	4.1 U
m-Terphenyl	mg/kg	7.7 U	4.0 U	4.0 U	4.1 U	3.9 U	4.0 U	4.1 U
p-Terphenyl	mg/kg	7.7 U	4.0 U	4.0 U	4.1 U	3.9 U	4.0 U	4.1 U
Formaldehyde	ug/kg	1700 U	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
RDX	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
HMX	ug/kg	320 U	350 U	330 U	350 U	340 U	320 UJ L	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
Tetryl	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
Nitroglycerin	ug/kg	2600 U	2800 U	2700 U	2800 U	2700 U	2500 UJ L	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	280 U	270 U	280 U	270 U	250 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	280 U	270 U	280 U	270 U	250 U	280 U
PETN	ug/kg	2600 U	2800 U	2700 U	2800 U	2700 U	2500 U	2800 U
2-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
3-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
4-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
Nitrobenzene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U
m-Dinitrobenzene	ug/kg	130 U	140 U	130 U	140 U	130 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA5DN-SB-9.0-10.0	SL-037-SA5DN-SS-0.0-0.5	SL-037-SA5DN-SB-4.0-5.0	SL-037-SA5DN-SB-11.5-12.5	SL-038-SA5DN-SS-0.0-0.5	SL-038-SA5DN-SB-4.0-5.0	SL-038-SA5DN-SB-10.5-11.5
Sample Date		06/07/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011
SDG		DE175	DE158	DE177	DE177	DE158	DE177	DE177
Start Depth		9	0	4	11.5	0	4	10.5
End Depth		10	0.5	5	12.5	0.5	5	11.5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	580 U	610 U	560 U	580 U	580 U	550 U
Methanol	ug/kg	580 U	580 U	610 U	560 U	580 U	580 U	550 U
2-Propanol	ug/kg	580 U	580 U	610 U	560 U	580 U	580 U	550 U
Ethylene Glycol	mg/kg	12 U	12 U	12 U	11 U	12 U	12 U	11 U
Diethylene Glycol	mg/kg	12 U	12 U	12 UJ Q	11 U	12 U	12 U	11 U
Propylene glycol	mg/kg	12 U	12 U	12 U	11 U	12 U	12 U	11 U
o-Terphenyl	mg/kg	4.0 U	4.0 U	4.3 U	3.9 U	4.1 U	4.1 U	3.9 U
m-Terphenyl	mg/kg	4.0 U	4.0 U	4.3 U	3.9 U	4.1 U	4.1 U	3.9 U
p-Terphenyl	mg/kg	4.0 U	4.0 U	4.3 U	3.9 U	4.1 U	4.1 U	3.9 U
Formaldehyde	ug/kg	1700 U	1700 U	1800 U	1700 U	1800 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
RDX	ug/kg	140 U	130 U	140 UJ Q	130 U	130 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
HMX	ug/kg	350 U	330 UJ L	360 U	330 U	320 UJ L	350 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
Tetryl	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
Nitroglycerin	ug/kg	2800 U	2700 UJ L	2900 U	2600 U	2600 UJ L	2800 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	270 U	290 U	260 U	260 U	280 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	270 U	290 U	260 U	260 U	280 U	260 U
PETN	ug/kg	2800 U	2700 U	2900 U	2600 U	2600 U	2800 U	2600 U
2-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
3-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	140 UJ Q	130 U	130 U	140 U	130 U
4-Nitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
Nitrobenzene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U
m-Dinitrobenzene	ug/kg	140 U	130 U	140 U	130 U	130 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-039-SA5DN-SS-0.0-0.5	SL-039-SA5DN-SB-4.0-5.0	SL-039-SA5DN-SB-11.5-12.5	SL-040-SA5DN-SS-0.0-0.5	SL-040-SA5DN-SB-4.0-5.0	SL-040-SA5DN-SB-10.5-11.5	SL-041-SA5DN-SS-0.0-0.5
Sample Date		05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/19/2011
SDG		DE158	DE177	DE177	DE158	DE177	DE177	DE157
Start Depth		0	4	11.5	0	4	10.5	0
End Depth		0.5	5	12.5	0.5	5	11.5	0.5
Chemical Name	Unit							
Ethanol	ug/kg	590 U	580 U	570 U	580 U	580 U	530 U	590 U
Methanol	ug/kg	590 U	580 U	570 U	580 U	580 U	530 U	590 U
2-Propanol	ug/kg	590 U	580 U	570 U	580 U	580 U	530 U	590 U
Ethylene Glycol	mg/kg	12 U	12 U	11 U	12 U	12 U	11 U	12 U
Diethylene Glycol	mg/kg	12 U	12 U	11 U	12 U	12 U	11 U	12 U
Propylene glycol	mg/kg	12 U	12 U	11 U	12 U	12 U	11 U	12 U
o-Terphenyl	mg/kg	4.1 U	4.1 U	4.0 U	4.1 U	4.1 U	3.7 U	8.1 U
m-Terphenyl	mg/kg	4.1 U	4.1 U	4.0 U	4.1 U	4.1 U	3.7 U	8.1 U
p-Terphenyl	mg/kg	4.1 U	4.1 U	4.0 U	4.1 U	4.1 U	3.7 U	8.1 U
Formaldehyde	ug/kg	1800 U	1800 U	1700 U	1800 U	1700 U	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
RDX	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
HMX	ug/kg	330 UJ L	350 U	330 U	340 UJ L	340 U	310 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
Tetryl	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
Nitroglycerin	ug/kg	2600 UJ L	2800 U	2700 U	2700 UJ L	2700 U	2500 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	280 U	270 U	270 U	270 U	250 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	280 U	270 U	270 U	270 U	250 U	280 U
PETN	ug/kg	2600 U	2800 U	2700 U	2700 U	2700 U	2500 U	2800 U
2-Nitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
3-Nitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
4-Nitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
Nitrobenzene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U
m-Dinitrobenzene	ug/kg	130 U	140 U	130 U	130 U	140 U	120 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-041-SA5DN-SB-4.0-5.0	SL-041-SA5DN-SB-9.0-10.0	SL-042-SA5DN-SS-0.0-0.5	SL-042-SA5DN-SB-4.0-5.0	SL-042-SA5DN-SB-9.0-10.0	SL-043-SA5DN-SS-0.0-0.5	SL-043-SA5DN-SB-4.0-5.0
Sample Date		06/10/2011	06/10/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011
SDG		DE178	DE178	DE157	DE179	DE179	DE157	DE179
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	600 U	560 U	920 U	590 U	550 U	580 R Q	570 U
Methanol	ug/kg	600 U	560 U	920 U	590 U	550 U	580 U	570 U
2-Propanol	ug/kg	600 U	560 U	920 U	590 U	550 U	580 U	570 U
Ethylene Glycol	mg/kg	12 UJ Q	11 U	18 U	12 U	11 U	12 U	11 U
Diethylene Glycol	mg/kg	12 UJ Q	11 U	18 U	12 U	11 U	12 UJ Q	11 U
Propylene glycol	mg/kg	12 UJ Q	11 U	18 U	12 U	11 U	12 U	11 U
o-Terphenyl	mg/kg	4.2 U	3.9 U	13 U	4.1 U	3.9 U	8.0 U	4.0 U
m-Terphenyl	mg/kg	4.2 U	3.9 U	13 U	4.1 U	3.9 U	8.0 UJ Q	4.0 U
p-Terphenyl	mg/kg	4.2 U	3.9 U	13 U	4.1 U	3.9 U	8.0 U	4.0 U
Formaldehyde	ug/kg	1800 U	1700 U	2800 U	1800 U	1700 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
RDX	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
HMX	ug/kg	360 U	330 U	540 U	350 U	330 U	350 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
Tetryl	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
Nitroglycerin	ug/kg	2900 U	2600 U	4300 U	2800 U	2700 U	2800 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	290 U	260 U	430 U	280 U	270 U	280 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	290 U	260 U	430 U	280 U	270 U	280 U	270 U
PETN	ug/kg	2900 U	2600 U	4300 U	2800 U	2700 U	2800 U	2700 U
2-Nitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
3-Nitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
4-Nitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
Nitrobenzene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U
m-Dinitrobenzene	ug/kg	140 U	130 U	220 U	140 U	130 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-043-SA5DN-SB-9.0-10.0	SL-044-SA5DN-SS-0.0-0.5	SL-044-SA5DN-SB-4.0-5.0	SL-044-SA5DN-SB-12.0-13.0	SL-045-SA5DN-SS-0.0-0.5	SL-045-SA5DN-SB-4.0-5.0	SL-045-SA5DN-SB-9.0-10.0
Sample Date		06/13/2011	05/20/2011	06/14/2011	06/14/2011	05/19/2011	06/10/2011	06/10/2011
SDG		DE179	DE158	DE180	DE180	DE157	DE178	DE178
Start Depth		9	0	4	12	0	4	9
End Depth		10	0.5	5	13	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	570 U	570 U	590 U	560 U	580 U	590 U	580 U
Methanol	ug/kg	570 U	570 U	590 U	560 U	580 U	590 U	580 U
2-Propanol	ug/kg	570 U	570 U	590 U	560 U	580 U	590 U	580 U
Ethylene Glycol	mg/kg	11 U	11 U	12 U	11 U	12 U	12 U	12 U
Diethylene Glycol	mg/kg	11 U	11 U	12 U	11 U	12 U	12 U	12 U
Propylene glycol	mg/kg	11 U	11 U	12 U	11 U	12 U	12 U	12 U
o-Terphenyl	mg/kg	4.0 U	4.0 U	4.1 U	4.0 U	8.0 U	4.1 U	4.0 U
m-Terphenyl	mg/kg	4.0 U	4.0 U	4.1 U	4.0 U	8.0 U	4.1 U	4.0 U
p-Terphenyl	mg/kg	4.0 U	4.0 U	4.1 U	4.0 U	8.0 U	4.1 U	4.0 U
Formaldehyde	ug/kg	1700 U	1700 U	1800 U	1700 U	1700 U	1800 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
RDX	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
HMX	ug/kg	340 U	320 UJ L	350 U	340 U	340 U	350 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
Tetryl	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
Nitroglycerin	ug/kg	2800 U	2600 UJ L	2800 U	2700 U	2700 U	2800 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	260 U	280 U	270 U	270 U	280 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	260 U	280 U	270 U	270 U	280 U	280 U
PETN	ug/kg	2800 U	2600 U	2800 U	2700 U	2700 U	2800 U	2800 U
2-Nitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
3-Nitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
4-Nitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
Nitrobenzene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U
m-Dinitrobenzene	ug/kg	140 U	130 U	140 U	140 U	140 U	140 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-046-SA5DN-SS-0.0-0.5	SL-046-SA5DN-SB-4.0-5.0	SL-046-SA5DN-SB-9.0-10.0	SL-047-SA5DN-SS-0.0-0.5	SL-047-SA5DN-SB-4.0-5.0	SL-047-SA5DN-SB-10.0-11.0	SL-051-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011	05/20/2011
SDG		DE157	DE179	DE179	DE157	DE179	DE179	DE158
Start Depth		0	4	9	0	4	10	0
End Depth		0.5	5	10	0.5	5	11	0.5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	580 U	580 U	550 U	560 U	540 U	550 U
Methanol	ug/kg	580 U	580 U	580 U	550 U	560 U	540 U	550 U
2-Propanol	ug/kg	580 U	580 U	580 U	550 U	560 U	540 U	550 U
Ethylene Glycol	mg/kg	12 U	12 U	12 U	11 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	12 U	12 U	12 U	11 U	11 U	11 U	11 U
Propylene glycol	mg/kg	12 U	12 U	12 U	11 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	8.0 U	4.0 U	4.0 U	7.6 U	3.9 U	3.8 U	3.9 UJ S
m-Terphenyl	mg/kg	8.0 U	4.0 U	4.0 U	7.6 U	3.9 U	3.8 U	3.9 UJ S
p-Terphenyl	mg/kg	8.0 U	4.0 U	4.0 U	7.6 U	3.9 U	3.8 U	3.9 UJ S
Formaldehyde	ug/kg	1700 U	1700 U	1700 U	1600 U	1700 U	1600 U	1600 U
2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
RDX	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
HMX	ug/kg	350 U	350 U	350 U	320 U	340 U	320 U	310 UJ L
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
Tetryl	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
Nitroglycerin	ug/kg	2800 U	2800 U	2800 U	2600 U	2700 U	2600 U	2500 UJ L
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	280 U	280 U	260 U	270 U	260 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	280 U	280 U	260 U	270 U	260 U	250 U
PETN	ug/kg	2800 U	2800 U	2800 U	2600 U	2700 U	2600 U	2500 U
2-Nitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
3-Nitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
4-Nitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
Nitrobenzene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U
m-Dinitrobenzene	ug/kg	140 U	140 U	140 U	130 U	130 U	130 U	120 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A3
Miscellaneous Organics-Validated Data
HSA-5DN

Sample Name		SL-051-SA5DN-SB-4.0-5.0	SL-051-SA5DN-SB-14.0-15.0	SL-064-SA5DN-SS-0.0-0.5	SL-064-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SS-0.0-0.5	SL-065-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SB-7.0-8.0
Sample Date		06/08/2011	06/08/2011	05/18/2011	05/20/2011	05/18/2011	05/20/2011	05/20/2011
SDG		DE176	DE176	DE154	DE158	DE154	DE158	DE158
Start Depth		4	14	0	4	0	4	7
End Depth		5	15	0.5	5	0.5	5	8
Chemical Name	Unit							
Ethanol	ug/kg	570 U	570 U	580 U	580 U	560 U	570 U	550 U
Methanol	ug/kg	570 U	570 U	580 U	580 U	560 U	570 U	550 U
2-Propanol	ug/kg	570 U	570 U	580 U	580 U	560 U	570 U	550 U
Ethylene Glycol	mg/kg	11 U	11 U	12 U	12 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	12 U	12 U	11 U	11 U	11 U
Propylene glycol	mg/kg	11 U	11 U	12 U	12 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	3.9 U	4.0 U	8.1 U	4.0 U	7.9 U	4.0 U	3.9 U
m-Terphenyl	mg/kg	3.9 U	4.0 U	8.1 U	4.0 U	7.9 U	4.0 U	3.9 U
p-Terphenyl	mg/kg	3.9 U	4.0 U	8.1 U	4.0 U	7.9 U	4.0 U	3.9 U
Formaldehyde	ug/kg	1700 U	1700 U	3500 U	1700 U	1700 U	1700 U	1600 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
RDX	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
HMX	ug/kg	330 U	340 U	330 U	340 UJ L	330 U	340 UJ L	330 UJ L
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
Tetryl	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
Nitroglycerin	ug/kg	2700 U	2700 U	2600 U	2700 UJ L	2700 U	2700 UJ L	2700 UJ L
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	270 U	260 U	270 U	270 U	270 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	270 U	260 U	270 U	270 U	270 U	270 U
PETN	ug/kg	2700 U	2700 U	2600 U	2700 U	2700 U	2700 U	2700 U
2-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
3-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
4-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
Nitrobenzene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U
m-Dinitrobenzene	ug/kg	130 U	140 U	130 U	140 U	130 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-066-SA5DN-SS-0.0-0.5	SL-066-SA5DN-SB-4.0-5.0	SL-066-SA5DN-SB-9.0-10.0	SL-067-SA5DN-SS-0.0-0.5	SL-067-SA5DN-SB-4.0-5.0	SL-067-SA5DN-SB-9.0-10.0	SL-074-SA5DN-SS-0.0-0.5
Sample Date		05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011
SDG		DE152	DE156	DE156	DE152	DE156	DE156	DE152
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	550 U	570 U	600 U	550 U	570 U	580 U	--
Methanol	ug/kg	550 U	570 U	600 U	550 U	570 U	580 U	--
2-Propanol	ug/kg	150 J Z	570 U	600 U	550 U	570 U	580 U	--
Ethylene Glycol	mg/kg	11 U	11 U	12 U	11 U	11 U	12 U	--
Diethylene Glycol	mg/kg	11 U	11 U	12 U	11 U	11 U	12 U	--
Propylene glycol	mg/kg	11 U	11 U	12 U	11 U	11 U	12 U	--
o-Terphenyl	mg/kg	39 U	4.0 U	4.2 U	39 UJ S	4.0 U	4.1 U	--
m-Terphenyl	mg/kg	39 U	4.0 U	4.2 U	39 UJ S	4.0 U	4.1 U	--
p-Terphenyl	mg/kg	39 U	4.0 U	4.2 U	39 UJ S	4.0 U	4.1 U	--
Formaldehyde	ug/kg	1600 U	1700 U	1800 U	1700 U	1700 U	1800 U	--
2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
RDX	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
HMX	ug/kg	320 U	340 U	350 U	330 U	340 U	320 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
Tetryl	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
Nitroglycerin	ug/kg	2600 U	2700 U	2800 U	2600 U	2700 U	2600 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 R L	270 U	280 U	260 R L	270 U	260 U	260 R L
2,4-Diamino-6-nitrotoluene	ug/kg	260 R L	270 U	280 U	260 R L	270 U	260 U	260 R L
PETN	ug/kg	2600 U	2700 U	2800 U	2600 U	2700 U	2600 U	2600 U
2-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-074-SA5DN-SB-4.0-5.0	SL-074-SA5DN-SB-9.0-10.0	SL-077-SA5DN-SB-4.0-5.0	SL-077-SA5DN-SB-9.0-10.0	SL-078-SA5DN-SB-4.0-5.0	SL-078-SA5DN-SB-9.0-10.0	SL-079-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	05/18/2011	06/27/2011	06/27/2011	06/27/2011	06/27/2011	05/17/2011
SDG		DE155	DE155	DE189	DE189	DE189	DE189	DE152
Start Depth		4	9	4	9	4	9	0
End Depth		5	10	5	10	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	--	--	--
Methanol	ug/kg	--	--	--	--	--	--	--
2-Propanol	ug/kg	--	--	--	--	--	--	--
Ethylene Glycol	mg/kg	--	--	--	--	--	--	--
Diethylene Glycol	mg/kg	--	--	--	--	--	--	--
Propylene glycol	mg/kg	--	--	--	--	--	--	--
o-Terphenyl	mg/kg	--	--	--	--	--	--	--
m-Terphenyl	mg/kg	--	--	--	--	--	--	--
p-Terphenyl	mg/kg	--	--	--	--	--	--	--
Formaldehyde	ug/kg	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
RDX	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
HMX	ug/kg	340 U	340 U	350 U	350 U	320 U	350 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
Tetryl	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
Nitroglycerin	ug/kg	2700 U	2700 U	2800 U	2800 U	2600 U	2800 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 R L, E	270 R L, E	280 U	280 U	260 U	280 U	250 R L
2,4-Diamino-6-nitrotoluene	ug/kg	270 R L, E	270 R L, E	280 U	280 U	260 U	280 U	250 R L
PETN	ug/kg	2700 U	2700 U	2800 U	2800 U	2600 U	2800 U	2500 U
2-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
3-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
4-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
Nitrobenzene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U
m-Dinitrobenzene	ug/kg	140 U	140 U	140 U	140 U	130 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-079-SA5DN-SB-4.0-5.0	SL-079-SA5DN-SB-9.0-10.0	SL-080-SA5DN-SS-0.0-0.5	SL-080-SA5DN-SB-4.0-5.0	SL-080-SA5DN-SB-8.0-9.0	SL-081-SA5DN-SS-0.0-0.5	SL-081-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	05/19/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/23/2011
SDG		DE156	DE156	DE152	DE156	DE156	DE152	DE159
Start Depth		4	9	0	4	8	0	4
End Depth		5	10	0.5	5	9	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	--	--	--
Methanol	ug/kg	--	--	--	--	--	--	--
2-Propanol	ug/kg	--	--	--	--	--	--	--
Ethylene Glycol	mg/kg	--	--	--	--	--	--	--
Diethylene Glycol	mg/kg	--	--	--	--	--	--	--
Propylene glycol	mg/kg	--	--	--	--	--	--	--
o-Terphenyl	mg/kg	--	--	--	--	--	--	--
m-Terphenyl	mg/kg	--	--	--	--	--	--	--
p-Terphenyl	mg/kg	--	--	--	--	--	--	--
Formaldehyde	ug/kg	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
RDX	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
HMX	ug/kg	340 U	360 U	330 U	330 U	320 U	320 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
Tetryl	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2700 U	2900 U	2700 U	2600 U	2600 U	2600 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	290 U	270 R L	260 U	260 U	260 R L	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	290 U	270 R L	260 U	260 U	260 R L	270 U
PETN	ug/kg	2700 U	2900 U	2700 U	2600 U	2600 U	2600 U	2700 U
2-Nitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	150 U	130 U	130 U	130 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-081-SA5DN-SB-9.0-10.0	SL-082-SA5DN-SS-0.0-0.5	SL-082-SA5DN-SB-4.0-5.0	SL-083-SA5DN-SS-0.0-0.5	SL-083-SA5DN-SB-4.0-5.0	SL-084-SA5DN-SS-0.0-0.5	SL-084-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	05/17/2011	05/19/2011	05/17/2011	08/08/2011	05/17/2011	05/23/2011
SDG		DE159	DE152	DE156	DE152	DE219	DE152	DE159
Start Depth		9	0	4	0	4	0	4
End Depth		10	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	--	--	--	--	--	--	--
Methanol	ug/kg	--	--	--	--	--	--	--
2-Propanol	ug/kg	--	--	--	--	--	--	--
Ethylene Glycol	mg/kg	--	--	--	--	--	--	--
Diethylene Glycol	mg/kg	--	--	--	--	--	--	--
Propylene glycol	mg/kg	--	--	--	--	--	--	--
o-Terphenyl	mg/kg	--	--	--	--	--	--	--
m-Terphenyl	mg/kg	--	--	--	--	--	--	--
p-Terphenyl	mg/kg	--	--	--	--	--	--	--
Formaldehyde	ug/kg	--	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
RDX	ug/kg	130 U	130 U	130 U	130 U	140 U	140	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
HMX	ug/kg	320 U	330 U	330 U	330 U	340 U	340 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
Tetryl	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
Nitroglycerin	ug/kg	2600 U	2700 U	2600 U	2700 U	2700 U	2700 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	270 R L	260 U	270 R L	270 U	270 R L	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	270 R L	260 U	270 R L	270 U	270 R L	270 U
PETN	ug/kg	2600 U	2700 U	2600 U	2700 U	2700 U	2700 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
3-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
4-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
Nitrobenzene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U
m-Dinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	140 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-085-SA5DN-SB-2.5-3.5	SL-086-SA5DN-SS-0.0-0.5	SL-086-SA5DN-SB-4.0-5.0	SL-087-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SB-4.0-5.0	SL-089-SA5DN-SS-0.0-0.5
Sample Date		06/27/2011	05/18/2011	05/20/2011	05/18/2011	05/18/2011	05/20/2011	05/18/2011
SDG		DE189	DE154	DE158	DE154	DE154	DE158	DE154
Start Depth		2.5	0	4	0	0	4	0
End Depth		3.5	0.5	5	0.5	0.5	5	0.5
Chemical Name	Unit							
Ethanol	ug/kg	--	580 U	570 U	560 U	--	--	580 UJ Q
Methanol	ug/kg	--	580 U	570 U	560 U	--	--	580 U
2-Propanol	ug/kg	--	580 U	570 U	560 U	--	--	580 U
Ethylene Glycol	mg/kg	--	12 U	11 U	11 U	--	--	12 UJ Q
Diethylene Glycol	mg/kg	--	12 U	11 U	11 U	--	--	12 UJ Q
Propylene glycol	mg/kg	--	12 U	11 U	11 U	--	--	12 UJ Q
o-Terphenyl	mg/kg	--	8.2 U	4.0 U	7.9 U	--	--	4.1 U
m-Terphenyl	mg/kg	--	8.2 U	4.0 U	7.9 U	--	--	4.1 UJ Q
p-Terphenyl	mg/kg	--	8.2 U	4.0 U	7.9 U	--	--	4.1 U
Formaldehyde	ug/kg	--	1700 U	1700 U	1700 U	--	--	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
RDX	ug/kg	140 U	120 J Z	130 U	120 U	140 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
HMX	ug/kg	350 U	330 U	340 UJ L	310 U	340 U	330 UJ L	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
Tetryl	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
Nitroglycerin	ug/kg	2800 U	2600 U	2700 UJ L	2500 U	2700 U	2700 UJ L	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	260 U	270 U	250 U	270 U	270 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	260 U	270 U	250 U	270 U	270 U	280 U
PETN	ug/kg	2800 U	2600 U	2700 U	2500 U	2700 U	2700 U	2800 U
2-Nitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
3-Nitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
4-Nitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
Nitrobenzene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U
m-Dinitrobenzene	ug/kg	140 U	130 U	130 U	120 U	140 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-089-SA5DN-SB-4.0-5.0	SL-090-SA5DN-SS-0.0-0.5	SL-097-SA5DN-SS-0.0-0.5	SL-097-SA5DN-SB-4.0-5.0	SL-097-SA5DN-SB-8.5-9.5	SL-098-SA5DN-SS-0.0-0.5	SL-098-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	05/18/2011	05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011
SDG		DE159	DE154	DE169	DE185	DE185	DE169	DE185
Start Depth		4	0	0	4	8.5	0	4
End Depth		5	0.5	0.5	5	9.5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	550 U	620 U	560 U	590 U	560 U	560 U	580 U
Methanol	ug/kg	550 U	620 U	560 U	590 U	560 U	560 U	580 U
2-Propanol	ug/kg	550 U	620 U	560 U	590 U	560 U	560 U	580 U
Ethylene Glycol	mg/kg	11 U	12 U	11 U	12 U	11 U	11 U	12 U
Diethylene Glycol	mg/kg	11 U	12 U	11 U	12 U	11 U	11 U	12 U
Propylene glycol	mg/kg	11 U	12 U	11 U	12 U	11 U	11 U	12 U
o-Terphenyl	mg/kg	3.9 U	8.7 U	3.9 U	4.1 U	3.9 U	3.9 U	4.1 U
m-Terphenyl	mg/kg	3.9 U	8.7 U	3.9 U	4.1 UJ Q	3.9 U	3.9 U	4.1 U
p-Terphenyl	mg/kg	3.9 U	8.7 U	3.9 U	4.1 U	3.9 U	3.9 U	4.1 U
Formaldehyde	ug/kg	1700 UJ L	3700 U	1700 U	1800 U	1700 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
RDX	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
HMX	ug/kg	330 U	370 U	340 U	350 U	330 U	330 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
Tetryl	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
Nitroglycerin	ug/kg	2600 U	3000 U	2700 U	2800 U	2600 U	2600 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	300 U	270 U	280 U	260 U	260 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	300 U	270 U	280 U	260 U	260 U	280 U
PETN	ug/kg	2600 U	3000 U	2700 U	2800 U	2600 U	2600 U	2800 U
2-Nitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
3-Nitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
4-Nitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
Nitrobenzene	ug/kg	130 U	150 U	130 U	140 U	130 U	130 U	140 U
m-Dinitrobenzene	ug/kg	130 U	150 U	58 J Z	140 U	130 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA5DN-SB-7.0-8.0	SL-099-SA5DN-SS-0.0-0.5	SL-099-SA5DN-SB-4.0-5.0	SL-102-SA5DN-SS-0.0-0.5	SL-102-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SS-0.0-0.5	SL-103-SA5DN-SB-4.0-5.0
Sample Date		06/21/2011	05/31/2011	06/21/2011	05/31/2011	06/23/2011	05/31/2011	06/24/2011
SDG		DE185	DE169	DE185	DE169	DE187	DE169	DE188
Start Depth		7	0	4	0	4	0	4
End Depth		8	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	590 U	530 U	560 U	550 U	530 U	550 U	550 U
Methanol	ug/kg	590 U	530 U	560 U	550 U	530 U	550 U	550 U
2-Propanol	ug/kg	590 U	530 U	560 U	550 U	530 U	550 U	550 U
Ethylene Glycol	mg/kg	12 U	11 U	11 U	11 U	11 UJ Q	11 U	11 UJ Q
Diethylene Glycol	mg/kg	12 U	11 U	11 U	11 U	11 UJ Q	11 U	11 UJ Q
Propylene glycol	mg/kg	12 U	11 U	11 U	11 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	4.1 U	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	3.8 U
m-Terphenyl	mg/kg	4.1 U	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	3.8 U
p-Terphenyl	mg/kg	4.1 U	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	3.8 U
Formaldehyde	ug/kg	1800 U	1600 U	1700 U	1600 U	1600 U	1600 U	1600 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
RDX	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
HMX	ug/kg	340 U	310 U	320 U	320 U	320 U	320 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
Tetryl	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2700 U	2500 U	2600 U	2600 U	2600 U	2500 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	250 U	260 U	260 U	260 U	250 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	250 U	260 U	260 U	260 U	250 U	260 U
PETN	ug/kg	2700 U	2500 U	2600 U	2600 U	2600 U	2500 U	2600 U
2-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	140 U	130 U	130 U	51 J Z	130 U	45 J Z	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-103-SA5DN-SB-7.0-8.0	SL-104-SA5DN-SS-0.0-0.5	SL-104-SA5DN-SB-4.0-5.0	SL-105-SA5DN-SS-0.0-0.5	SL-105-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SS-0.0-0.5	SL-106-SA5DN-SB-4.0-5.0
Sample Date		06/24/2011	05/31/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/23/2011
SDG		DE188	DE169	DE187	DE170	DE187	DE170	DE187
Start Depth		7	0	4	0	4	0	4
End Depth		8	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	590 U	530 U	560 U	530 U	550 U	530 U	560 U
Methanol	ug/kg	590 U	530 U	560 U	530 U	550 U	530 U	560 U
2-Propanol	ug/kg	590 U	530 U	560 U	530 U	550 U	530 U	560 U
Ethylene Glycol	mg/kg	12 U	11 U	11 U	11 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	12 U	11 U	11 U	11 U	11 U	11 U	11 U
Propylene glycol	mg/kg	12 U	11 U	11 U	11 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	4.1 U	3.7 U	3.9 U	3.7 U	3.9 U	3.7 U	3.9 U
m-Terphenyl	mg/kg	4.1 U	3.7 U	3.9 U	3.7 U	3.9 U	3.7 U	3.9 U
p-Terphenyl	mg/kg	4.1 U	3.7 U	3.9 U	3.7 U	3.9 U	3.7 U	3.9 U
Formaldehyde	ug/kg	1800 U	1600 U	1700 U	1600 U	1600 U	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
RDX	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
HMX	ug/kg	350 U	310 U	310 U	310 U	300 U	320 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
Tetryl	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
Nitroglycerin	ug/kg	2800 U	2500 U	2400 U	2500 U	2400 U	2600 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	250 U	240 U	250 U	240 U	260 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	250 U	240 U	250 U	240 U	260 U	260 U
PETN	ug/kg	2800 U	2500 U	2400 U	2500 U	2400 U	2600 U	2600 U
2-Nitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
3-Nitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
4-Nitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
Nitrobenzene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U
m-Dinitrobenzene	ug/kg	140 U	130 U	120 U	120 U	120 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-106-SA5DN-SB-9.0-10.0	SL-107-SA5DN-SS-0.0-0.5	SL-107-SA5DN-SB-3.5-4.5	SL-109-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SB-3.5-4.5	SL-110-SA5DN-SS-0.0-0.5	SL-110-SA5DN-SB-4.0-5.0
Sample Date		06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/23/2011	05/31/2011	06/23/2011
SDG		DE187	DE170	DE187	DE170	DE187	DE169	DE187
Start Depth		9	0	3.5	0	3.5	0	4
End Depth		10	0.5	4.5	0.5	4.5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	560 U	520 U	550 U	540 U	530 U	550 U	550 U
Methanol	ug/kg	560 U	520 U	550 U	540 U	530 U	550 U	550 U
2-Propanol	ug/kg	560 U	520 U	550 U	540 U	530 U	550 U	550 U
Ethylene Glycol	mg/kg	11 U	10 U	11 U	11 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	10 UJ Q	11 U	11 U	11 U	11 U	11 U
Propylene glycol	mg/kg	11 U	10 U	11 U	11 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	3.9 U	3.6 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U
m-Terphenyl	mg/kg	3.9 U	3.6 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U
p-Terphenyl	mg/kg	3.9 U	3.6 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U
Formaldehyde	ug/kg	1700 U	1500 U	1600 U	1600 U	1600 U	1600 U	1600 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
RDX	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
HMX	ug/kg	320 U	310 U	310 U	330 U	290 U	320 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
Tetryl	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
Nitroglycerin	ug/kg	2600 U	2500 U	2500 U	2600 U	2300 U	2600 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	250 U	250 U	260 U	230 U	260 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	250 U	250 U	260 U	230 U	260 U	260 U
PETN	ug/kg	2600 U	2500 U	2500 U	2600 U	2300 U	2600 U	2600 U
2-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	130 U	120 U	130 U	120 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	130 U	120 U	130 U	120 U	53 J Z	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-111-SA5DN-SS-0.0-0.5	SL-111-SA5DN-SB-4.0-5.0	SL-112-SA5DN-SS-0.0-0.5	SL-112-SA5DN-SB-4.0-5.0	SL-113-SA5DN-SS-0.0-0.5	SL-113-SA5DN-SB-4.0-5.0	SL-117-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	06/22/2011	05/31/2011	06/22/2011	05/31/2011	06/21/2011	05/27/2011
SDG		DE169	DE186	DE169	DE186	DE169	DE185	DE167
Start Depth		0	4	0	4	0	4	0
End Depth		0.5	5	0.5	5	0.5	5	0.5
Chemical Name	Unit							
Ethanol	ug/kg	560 U	570 U	550 U	580 U	550 U	600 U	550 U
Methanol	ug/kg	560 U	570 U	550 U	580 U	550 U	600 U	550 U
2-Propanol	ug/kg	560 U	570 U	550 U	580 U	550 U	600 U	550 U
Ethylene Glycol	mg/kg	11 U	11 U	11 U	12 UJ Q	11 U	12 U	11 UJ Q
Diethylene Glycol	mg/kg	11 U	11 U	11 U	12 UJ Q	11 U	12 U	11 UJ Q
Propylene glycol	mg/kg	11 U	11 U	11 U	12 U	11 U	12 U	11 UJ Q
o-Terphenyl	mg/kg	3.9 U	4.0 U	3.8 U	4.1 U	3.8 U	4.2 U	3.9 U
m-Terphenyl	mg/kg	3.9 U	4.0 U	3.8 U	4.1 UJ Q	3.8 U	4.2 U	3.9 U
p-Terphenyl	mg/kg	3.9 U	4.0 U	3.8 U	4.1 U	3.8 U	4.2 U	2.2 J Q, E, Z
Formaldehyde	ug/kg	1700 U	1700 U	1600 U	1800 U	1600 U	1800 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
RDX	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
HMX	ug/kg	310 U	330 U	320 U	340 U	330 U	340 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
Tetryl	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
Nitroglycerin	ug/kg	2500 U	2700 U	2600 U	2700 U	2600 U	2800 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	250 U	270 U	260 U	270 U	260 U	280 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	250 U	270 U	260 U	270 U	260 U	280 U	270 U
PETN	ug/kg	2500 U	2700 U	2600 U	2700 U	2600 U	2800 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
3-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
4-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
Nitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	140 U	130 U
m-Dinitrobenzene	ug/kg	43 J Z	130 U	130 U	130 U	130 U	140 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-117-SA5DN-SB-4.0-5.0	SL-118-SA5DN-SS-0.0-0.5	SL-118-SA5DN-SB-4.0-5.0	SL-119-SA5DN-SS-0.0-0.5	SL-119-SA5DN-SB-4.0-5.0	SL-120-SA5DN-SS-0.0-0.5	SL-120-SA5DN-SB-4.0-5.0
Sample Date		06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/21/2011
SDG		DE184	DE167	DE184	DE167	DE184	DE167	DE185
Start Depth		4	0	4	0	4	0	4
End Depth		5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	560 U	550 U	550 U	550 U	570 U	550 U	560 U
Methanol	ug/kg	560 U	550 U	550 U	550 U	570 U	550 U	560 U
2-Propanol	ug/kg	560 U	550 U	550 U	550 U	570 U	550 U	560 U
Ethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Propylene glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	3.9 U	3.9 U	3.9 U	19 U	4.0 U	7.7 U	3.9 U
m-Terphenyl	mg/kg	3.9 U	3.9 U	3.9 U	19 U	4.0 U	7.7 U	3.9 U
p-Terphenyl	mg/kg	3.9 U	3.9 U	3.9 U	12 J Z	4.0 U	6.6 J Z	3.9 U
Formaldehyde	ug/kg	1700 U	1600 U	1700 U	1600 U	1700 U	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
RDX	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
HMX	ug/kg	320 U	330 U	330 U	330 U	340 U	320 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Tetryl	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2600 U	2600 U	2700 U	2700 U	2700 U	2600 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	260 U	270 U	270 U	270 U	260 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	260 U	270 U	270 U	270 U	260 U	270 U
PETN	ug/kg	2600 U	2600 U	2700 U	2700 U	2700 U	2600 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-121-SA5DN-SS-0.0-0.5	SL-121-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SB-8.0-9.0	SL-125-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SB-4.0-5.0	SL-125-SA5DN-SB-9.0-10.0	SL-132-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011	06/21/2011	06/02/2011
SDG		DE169	DE185	DE185	DE169	DE185	DE185	DE171
Start Depth		0	4	8	0	4	9	0
End Depth		0.5	5	9	0.5	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	540 U	560 U	530 U	550 U	570 U	530 U	510 U
Methanol	ug/kg	540 U	560 U	530 U	550 U	570 U	530 U	510 U
2-Propanol	ug/kg	540 U	560 U	530 U	550 U	570 U	530 U	510 U
Ethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	10 U
Diethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	10 U
Propylene glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	10 U
o-Terphenyl	mg/kg	38 U	3.9 U	3.7 U	3.8 U	4.0 U	3.7 U	3.6 U
m-Terphenyl	mg/kg	38 U	3.9 U	3.7 U	3.8 U	4.0 U	3.7 U	3.6 U
p-Terphenyl	mg/kg	28 J Z	3.9 U	3.7 U	3.8 U	4.0 U	3.7 U	3.6 U
Formaldehyde	ug/kg	1600 U	1700 U	1600 U	1600 U	1700 U	1600 U	2800 J Z
2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
RDX	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
HMX	ug/kg	320 U	330 U	310 U	330 U	330 U	320 U	280 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
Tetryl	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
Nitroglycerin	ug/kg	2600 U	2600 U	2500 U	2600 U	2600 U	2600 U	2300 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	260 U	250 U	260 U	260 U	260 U	230 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	260 U	250 U	260 U	260 U	260 U	230 U
PETN	ug/kg	2600 U	2600 U	2500 U	2600 U	2600 U	2600 U	2300 U
2-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
3-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
4-Nitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
Nitrobenzene	ug/kg	130 U	130 U	120 U	130 U	130 U	130 U	110 U
m-Dinitrobenzene	ug/kg	130 U	130 U	120 U	51 J Z	130 U	130 U	110 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-132-SA5DN-SB-4.0-5.0	SL-133-SA5DN-SS-0.0-0.5	SL-133-SA5DN-SB-4.0-5.0	SL-134-SA5DN-SS-0.0-0.5	SL-135-SA5DN-SS-0.0-0.5	SL-136-SA5DN-SS-0.0-0.5	SL-137-SA5DN-SS-0.0-0.5
Sample Date		06/28/2011	06/02/2011	05/25/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DE190	DE171	DE162	DE171	DE171	DE171	DE171
Start Depth		4	0	4	0	0	0	0
End Depth		5	0.5	5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Ethanol	ug/kg	560 U	510 U	570 U	520 U	510 U	510 U	510 U
Methanol	ug/kg	560 U B	510 U	570 U	520 U	510 U	510 U	510 U
2-Propanol	ug/kg	560 U	510 U	570 U	520 U	510 U	510 U	510 U
Ethylene Glycol	mg/kg	11 U	10 U	11 U	10 U	10 U	10 U	10 U
Diethylene Glycol	mg/kg	11 U	10 U	11 U	10 U	10 U	10 U	10 U
Propylene glycol	mg/kg	11 U	10 U	11 U	10 U	10 U	10 U	10 U
o-Terphenyl	mg/kg	3.9 U	3.6 U	4.0 U	3.6 U	3.6 U	3.6 U	3.6 U
m-Terphenyl	mg/kg	3.9 UJ Q	3.6 U	4.0 U	3.6 U	3.6 U	3.6 U	3.6 U
p-Terphenyl	mg/kg	3.9 U	3.6 U	4.0 U	3.6 U	3.6 U	3.6 U	3.6 U
Formaldehyde	ug/kg	1600 U	1800	1700 U	1000 J Z	1200 J Z	1200 J Z	1200 J Z
2,6-Dinitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
2,4,6-Trinitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
RDX	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
HMX	ug/kg	320 U	300 U	340 U	290 U	280 U	280 U	280 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
Tetryl	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
Nitroglycerin	ug/kg	2600 U	2400 U	2700 U	2300 U	2300 U	2300 U	2300 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	240 U	270 U	230 U	230 U	230 U	230 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	240 U	270 U	230 U	230 U	230 U	230 U
PETN	ug/kg	2600 U	2400 U	2700 U	2300 U	2300 U	2300 U	2300 U
2-Nitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
3-Nitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
1,3,5-Trinitrobenzene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
4-Nitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
2,4-Dinitrotoluene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
Nitrobenzene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U
m-Dinitrobenzene	ug/kg	130 U	120 U	140 U	120 U	110 U	110 U	110 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-138-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SB-2.0-3.0	SL-140-SA5DN-SS-0.0-0.5	SL-140-SA5DN-SB-2.0-3.0	SL-141-SA5DN-SS-0.0-0.5	SL-141-SA5DN-SB-4.0-5.0
Sample Date		06/02/2011	06/02/2011	05/24/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011
SDG		DE171	DE171	DE161	DE171	DE162	DE171	DE190
Start Depth		0	0	2	0	2	0	4
End Depth		0.5	0.5	3	0.5	3	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	510 U	510 U	560 U	510 U	530 U	530 U	550 U
Methanol	ug/kg	510 U	510 U	560 U	130 J Z	530 U	530 U	550 U B
2-Propanol	ug/kg	510 U	510 U	560 U	150 J Z	530 U	530 U	550 U
Ethylene Glycol	mg/kg	10 UJ Q	10 U	11 U	10 U	11 U	11 U	11 U
Diethylene Glycol	mg/kg	10 UJ Q	10 U	11 U	10 U	11 U	11 U	11 U
Propylene glycol	mg/kg	10 UJ Q	10 U	11 U	10 U	11 U	11 U	11 U
o-Terphenyl	mg/kg	3.6 U	3.5 U	3.9 U	3.6 U	3.7 U	3.7 U	3.8 U
m-Terphenyl	mg/kg	3.6 U	3.5 U	3.9 U	3.6 U	3.7 U	3.7 U	3.8 U
p-Terphenyl	mg/kg	3.6 U	3.5 U	3.9 U	3.6 U	3.7 U	3.7 U	3.8 U
Formaldehyde	ug/kg	2100	1400 J Z	1700 U	3500	1600 U	1900	1600 U
2,6-Dinitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
RDX	ug/kg	110 U	120 U	130 U	120 U	130 U	150 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
HMX	ug/kg	290 U	300 U	320 U	290 U	320 U	310 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
Tetryl	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2300 U	2400 U	2600 U	2300 U	2600 U	2500 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	230 U	240 U	260 U	230 U	260 U	250 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	230 U	240 U	260 U	230 U	260 U	250 U	250 U
PETN	ug/kg	2300 U	2400 U	2600 U	2300 U	2600 U	2500 U	2500 U
2-Nitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	110 U	120 U	130 U	120 U	130 U	130 U	130 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-171-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SB-4.0-5.0	SL-175-SA5DN-SB-9.0-10.0	SL-179-SA5DN-SS-0.0-0.5	SL-179-SA5DN-SB-4.0-5.0	SL-179-SA5DN-SB-9.0-10.0
Sample Date		05/26/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	07/27/2011	07/27/2011
SDG		DE166	DE166	DE213	DE213	DE166	DE210	DE210
Start Depth		0	0	4	9	0	4	9
End Depth		0.5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Ethanol	ug/kg	530 U	540 U	550 U	570 U	520 U	520 U	570 U
Methanol	ug/kg	530 U	540 U	550 U	570 U	520 U	520 U	570 U
2-Propanol	ug/kg	530 U	540 U	550 U	570 U	520 U	520 U	570 U
Ethylene Glycol	mg/kg	11 U	11 U	11 UJ Q	11 U	10 U	10 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	11 UJ Q	11 U	10 U	10 U	11 U
Propylene glycol	mg/kg	11 U	11 U	11 UJ Q	11 U	10 U	10 U	11 U
o-Terphenyl	mg/kg	3.7 U	3.7 U	3.9 U	4.0 U	3.6 U	3.6 U	4.0 U
m-Terphenyl	mg/kg	3.7 U	3.7 U	3.9 UJ Q	4.0 U	3.6 U	3.6 U	4.0 U
p-Terphenyl	mg/kg	3.7 U	3.7 U	3.9 UJ Q	4.0 U	3.6 U	3.6 U	4.0 U
Formaldehyde	ug/kg	6400 U	1600 U	1600 U	1700 U	1600 U	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
RDX	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
HMX	ug/kg	310 U	320 U	330 U	340 U	310 U	310 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
Tetryl	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
Nitroglycerin	ug/kg	2500 U	2600 U	2600 UJ L	2800 UJ L	2500 U	2500 UJ L	2700 UJ L
2,6-Diamino-4-nitrotoluene	ug/kg	250 U	260 U	260 U	280 U	250 U	250 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	250 U	260 U	260 U	280 U	250 U	250 U	270 U
PETN	ug/kg	2500 U	2600 U	2600 U	2800 U	2500 U	2500 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	130 U	140 U	130 U	120 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-186-SA5DN-SS-0.0-0.5	SL-186-SA5DN-SB-4.0-5.0	SL-186-SA5DN-SB-9.0-10.0	SL-191-SA5DN-SS-0.0-0.5	SL-191-SA5DN-SB-4.0-5.0	SL-191-SA5DN-SB-9.0-10.0	SL-192-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	07/05/2011	07/05/2011	05/24/2011	07/06/2011	07/06/2011	05/24/2011
SDG		DE160	DE193	DE193	DE160	DE194	DE194	DE160
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
Ethanol	ug/kg	570 U	580 U	570 U	550 U	580 U	590 U	620 U
Methanol	ug/kg	570 U	580 U	570 U	550 U	580 U	590 U	620 U
2-Propanol	ug/kg	570 U	580 U	570 U	550 U	580 U	590 U	620 U
Ethylene Glycol	mg/kg	11 U	12 U	11 U	11 U	12 U	12 U	12 U
Diethylene Glycol	mg/kg	11 U	12 U	11 U	11 U	12 U	12 U	12 U
Propylene glycol	mg/kg	11 U	12 U	11 U	11 U	12 U	12 U	12 U
o-Terphenyl	mg/kg	4.0 U	4.1 U	4.0 U	3.8 U	4.1 U	4.1 U	4.3 U
m-Terphenyl	mg/kg	4.0 U	4.1 UJ Q	4.0 U	3.8 U	4.1 U	4.1 U	4.3 U
p-Terphenyl	mg/kg	4.0 U	4.1 U	4.0 U	3.8 U	4.1 U	4.1 U	4.3 U
Formaldehyde	ug/kg	1700 U	1800 U	1700 UJ Q	1600 U	1700 U	1800 U	1800 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
RDX	ug/kg	130 U	140 U	140 U	68 J Z	140 U	140 U	150 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
HMX	ug/kg	320 U	350 U	340 U	330 U	350 U	350 U	370 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
Tetryl	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
Nitroglycerin	ug/kg	2600 U	2800 U	2700 U	2600 U	2800 U	2800 U	3000 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	280 U	270 U	260 U	280 U	280 U	300 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	280 U	270 U	260 U	280 U	280 U	300 U
PETN	ug/kg	2600 U	2800 U	2700 U	2600 U	2800 U	2800 U	3000 U
2-Nitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
3-Nitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
4-Nitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
Nitrobenzene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U
m-Dinitrobenzene	ug/kg	130 U	140 U	140 U	130 U	140 U	140 U	150 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-192-SA5DN-SB-4.0-5.0	SL-192-SA5DN-SB-9.0-10.0	SL-197-SA5DN-SS-0.0-0.5	SL-197-SA5DN-SB-4.0-5.0	SL-197-SA5DN-SB-9.0-10.0	SL-198-SA5DN-SS-0.0-0.5	SL-198-SA5DN-SB-4.0-5.0
Sample Date		07/05/2011	07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/05/2011
SDG		DE193	DE193	DE160	DE192	DE192	DE160	DE218
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
Ethanol	ug/kg	580 U	590 U	580 U	590 U	600 U	550 U	580 U
Methanol	ug/kg	580 U	590 U	580 U	590 U	600 U	550 U	580 U
2-Propanol	ug/kg	580 U	590 U	580 U	590 U	600 U	550 U	580 U
Ethylene Glycol	mg/kg	12 U	12 U	12 U	7.0 J Z	12 U	11 U	12 U
Diethylene Glycol	mg/kg	12 U	12 U	12 U	12 U	12 U	11 U	12 U
Propylene glycol	mg/kg	12 U	12 U	12 U	12 U	12 U	11 U	12 U
o-Terphenyl	mg/kg	4.1 U	4.1 U	4.1 U	4.1 U	4.2 U	3.8 U	4.1 U
m-Terphenyl	mg/kg	4.1 U	4.1 U	4.1 U	4.1 U	4.2 U	3.8 U	4.1 U
p-Terphenyl	mg/kg	4.1 U	4.1 U	4.1 U	4.1 U	4.2 U	3.8 U	4.1 U
Formaldehyde	ug/kg	1700 U	1800 U	1700 U	1800 U	1800 U	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
RDX	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
HMX	ug/kg	350 U	350 U	350 U	330 U	350 U	330 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
Tetryl	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
Nitroglycerin	ug/kg	2800 U	2800 U	2800 U	2700 U	2800 U	2600 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	280 U	280 U	270 U	280 U	260 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	280 U	280 U	270 U	280 U	260 U	280 U
PETN	ug/kg	2800 U	2800 U	2800 U	2700 U	2800 U	2600 U	2800 U
2-Nitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
3-Nitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
4-Nitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
Nitrobenzene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U
m-Dinitrobenzene	ug/kg	140 U	140 U	140 U	130 U	140 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-198-SA5DN-SB-9.0-10.0	SL-206-SA5DN-SS-0.0-0.5	SL-206-SA5DN-SB-4.0-5.0	SL-207-SA5DN-SS-0.0-0.5	SL-207-SA5DN-SB-4.0-5.0
Sample Date		08/05/2011	05/17/2011	05/19/2011	06/03/2011	08/11/2011
SDG		DE218	DE152	DE156	DE173	DE222
Start Depth		9	0	4	0	4
End Depth		10	0.5	5	0.5	5
Chemical Name	Unit					
Ethanol	ug/kg	560 U	--	--	540 U	570 U
Methanol	ug/kg	560 U	--	--	540 U	570 U
2-Propanol	ug/kg	560 U	--	--	540 U	570 U
Ethylene Glycol	mg/kg	11 U	--	--	11 U	11 U
Diethylene Glycol	mg/kg	11 U	--	--	11 U	11 U
Propylene glycol	mg/kg	11 U	--	--	11 U	11 U
o-Terphenyl	mg/kg	3.9 U	--	--	3.8 UJ S	4.0 U
m-Terphenyl	mg/kg	3.9 U	--	--	3.8 UJ S	4.0 U
p-Terphenyl	mg/kg	3.9 U	--	--	3.8 UJ S	4.0 U
Formaldehyde	ug/kg	1700 U	--	--	1500 J Z	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
RDX	ug/kg	130 U	130 U	140 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
HMX	ug/kg	330 U	330 U	340 U	320 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
Tetryl	ug/kg	130 U	130 U	140 U	130 U	140 U
Nitroglycerin	ug/kg	2700 U	2700 U	2700 U	2500 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	270 R L	270 U	250 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	270 R L	270 U	250 U	270 U
PETN	ug/kg	2700 U	2700 U	2700 U	2500 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA5DN-SS-0.0-0.5	SL-001-SA5DN-SB-5.5-6.5	SL-001-SA5DN-SB-9.0-10.0	SL-002-SA5DN-SS-0.0-0.5	SL-002-SA5DN-SB-4.0-5.0	SL-002-SA5DN-SB-9.0-10.0	SL-003-SA5DN-SB-0.5-1.5
Sample Date		05/25/2011	05/17/2011	05/17/2011	05/25/2011	05/16/2011	05/16/2011	05/16/2011
SDG		DX090	DX083	DX083	DX090	DX081	DX081	DX081
Start Depth		0	5.5	9	0	4	9	0.5
End Depth		0.5	6.5	10	0.5	5	10	1.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U	1.16 U	1.12 U B, Z	1.02 U	1.13 U	1.11 U	1.19 U
1,2,3,7,8,9-HxCDD	ng/kg	1.50 J Z	5.82 U B, Z	5.59 U B, Z	0.958 J Z	5.66 U B, Z	5.55 U B, Z	0.988 J Z
OCDD	ng/kg	1200	3.10 J Z	11.2 U B, Z	456	11.3 U B, Z	11.1 U B, Z	11.9
1,2,3,4,6,7,8-HpCDD	ng/kg	53.8	5.82 U B, Z	5.59 U B, Z	37.3	5.66 U B, Z	5.55 U B, Z	1.11 J Z
OCDF	ng/kg	23.7	11.6 U B, Z	11.2 U B, Z	13.5	11.3 U B, Z	11.1 U B, Z	11.9 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	0.431 J Z	5.82 U B, Z	5.59 U B, Z	0.530 J Z	5.66 U	5.55 U	5.95 U B, Z
1,2,3,7,8-PeCDD	ng/kg	0.341 J Z	5.82 U B, Z	5.59 U B, Z	0.301 J Z	5.66 U B, Z	5.55 U B, Z	5.95 U B, Z
2,3,7,8-TCDF	ng/kg	0.375 J Z	1.16 U	1.12 U B, Z	0.161 J Z	1.13 U	0.0203 J Z	0.143 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.805 J Z	5.82 U B, Z	5.59 U B, Z	0.439 J Z	5.66 U B, Z	5.55 U B, Z	5.95 U B, Z
2,3,4,7,8-PeCDF	ng/kg	1.06 J Z	5.82 U B, Z	5.59 U B, Z	0.672 J Z	5.66 U B, Z	5.55 U B, Z	5.95 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.827 J Z	5.82 U B, Z	5.59 U B, Z	0.278 J Z	5.66 U B, Z	5.55 U B, Z	0.367 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.845 J Z	5.82 U B, Z	5.59 U B, Z	0.513 J Z	5.66 U B, Z	5.55 U B, Z	5.95 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	2.28 J Z	5.82 U B, Z	5.59 U B, Z	1.76 J Z	5.66 U B, Z	5.55 U B, Z	0.615 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.944 J Z	5.82 U B, Z	5.59 U B, Z	0.662 J Z	5.66 U B, Z	5.55 U B, Z	5.95 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	13.6	5.82 U B, Z	5.59 U B, Z	7.21	5.66 U B, Z	5.55 U B, Z	5.95 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	1.34 J Z	5.82 U B, Z	5.59 U B, Z	0.599 J Z	5.66 U B, Z	5.55 U B, Z	5.95 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	1.62 J Z	5.82 U B, Z	5.59 U B, Z	5.11 U B, Z	5.66 U B, Z	5.55 U B, Z	1.09 J Z
Aroclor 1260	ug/kg	2.5	2.0 U	1.9 U	2.7	1.9 U	1.9 U	2.0 U
Aroclor 1254	ug/kg	1.9 U	2.0 U	1.9 U	12	1.9 U	1.9 U	2.0 U
Aroclor 1268	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	5.6	3.9 U	3.7 U	7.5	3.8 U	3.8 U	3.9 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.9 U	3.7 U	3.5 U	3.8 U	3.8 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.9 U	3.7 U	3.5 U	3.8 U	3.8 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-003-SA5DN-SB-8.0-9.0	SL-004-SA5DN-SS-0.0-0.5	SL-004-SA5DN-SB-3.5-4.5	SL-004-SA5DN-SB-9.0-10.0	SL-005-SA5DN-SS-0.0-0.5	SL-005-SA5DN-SB-4.0-5.0	SL-005-SA5DN-SB-9.0-10.0
Sample Date		05/16/2011	05/25/2011	05/16/2011	05/16/2011	05/25/2011	05/17/2011	05/17/2011
SDG		DX081	DX090	DX081	DX081	DX090	DX083	DX083
Start Depth		8	0	3.5	9	0	4	9
End Depth		9	0.5	4.5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.11 U B, Z	3.48	1.20 U B, Z	1.12 U B, Z	0.104 J Z	1.16 U B, Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	5.55 U B, Z	1.80 J Z	0.939 J Z	5.60 U B, Z	1.76 J Z	5.78 U B, Z	5.64 U B, Z
OCDD	ng/kg	11.1 U B, Z	9.88 J Z	6.06 J Z	11.2 U B, Z	345	11.6 U B, Z	11.3 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.55 U B, Z	1.24 J Z	5.98 U B, Z	5.60 U B, Z	28.9	5.78 U B, Z	5.64 U B, Z
OCDF	ng/kg	11.1 U B, Z	10.6 U B, Z	12.0 U B, Z	11.2 U B, Z	8.90 J Z	11.6 U B, Z	11.3 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.55 U B, Z	0.254 J Z	5.98 U B, Z	5.60 U B, Z	0.589 J Z	5.78 U B, Z	5.64 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.55 U B, Z	4.20 J Z	5.98 U B, Z	5.60 U B, Z	0.590 J Z	5.78 U B, Z	5.64 U B, Z
2,3,7,8-TCDF	ng/kg	0.0652 J Z	0.138 J Z	1.20 U	0.0461 J Z	0.590 J Z	1.16 U B, Z	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.55 U B, Z	5.31 U B, Z	5.98 U B, Z	5.60 U B, Z	0.382 J Z	5.78 U B, Z	5.64 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.55 U B, Z	0.317 J Z	5.98 U B, Z	5.60 U B, Z	0.962 J Z	5.78 U B, Z	5.64 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.55 U B, Z	0.272 J Z	0.437 J Z	5.60 U B, Z	0.574 J Z	5.78 U B, Z	5.64 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.55 U B, Z	5.31 U B, Z	5.98 U B, Z	5.60 U B, Z	0.541 J Z	5.78 U B, Z	5.64 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.55 U B, Z	0.736 J Z	0.563 J Z	5.60 U B, Z	1.80 J Z	5.78 U B, Z	5.64 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.55 U B, Z	5.31 U B, Z	5.98 U B, Z	5.60 U B, Z	0.492 J Z	5.78 U B, Z	5.64 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.55 U B, Z	5.31 U B, Z	5.98 U B, Z	5.60 U B, Z	4.57 J Z	5.78 U B, Z	5.64 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.55 U B, Z	5.31 U B, Z	5.98 U B, Z	5.60 U B, Z	0.752 J Z	5.78 U B, Z	5.64 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.55 U B, Z	5.31 U B, Z	1.54 J Z	5.60 U B, Z	1.08 J Z	5.78 U B, Z	5.64 U B, Z
Aroclor 1260	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.5 J Z	2.0 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.3 J Z	2.0 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	3.6 U	4.0 U	3.7 U	7.5 U	3.9 U	3.8 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.6 U	4.0 U	3.7 U	7.5 U	3.9 U	3.8 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	0.86 J Z	1.9 U	2.0 U	1.9 U	3.9 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.6 U	4.0 U	3.7 U	7.5 U	3.9 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-006-SA5DN-SS-0.0-0.5	SL-006-SA5DN-SB-4.0-5.0	SL-006-SA5DN-SB-9.0-10.0	SL-007-SA5DN-SS-0.0-0.5	SL-007-SA5DN-SB-4.0-5.0	SL-008-SA5DN-SS-0.0-0.5	SL-008-SA5DN-SB-4.0-5.0
Sample Date		05/25/2011	08/11/2011	08/11/2011	08/22/2011	08/10/2011	05/23/2011	05/31/2011
SDG		DX090	DX127	DX127	DX129	DX127	DX088	DX094
Start Depth		0	4	9	0	4	0	4
End Depth		0.5	5	10	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.182 J Z	1.13 U	1.11 U	1.11 U	1.16 U	0.103 J Z	1.15 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.71 J Z	5.66 U B	5.57 U B	0.621 J Z	0.375 J Z	0.840 J Z	5.77 U B
OCDD	ng/kg	1670	16.6	11.1 U B	147	11.6 U B	270	11.5 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	147	1.55 J Z	5.57 U B	12.7	5.82 U B	20.8	5.77 U B
OCDF	ng/kg	64.3	0.827 J Z	11.1 U B	4.88 J Z	11.6 U B	6.80 J Z	11.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	2.76 J Z	5.66 U B	5.57 U B	0.304 J Z	5.82 U	0.323 J Z	0.0243 J Z
1,2,3,7,8-PeCDD	ng/kg	1.53 J Z	0.0828 J Z	0.116 J Z	5.55 U	5.82 U	0.275 J Z	5.77 U
2,3,7,8-TCDF	ng/kg	1.20 U	1.13 U	1.11 U	10.9	1.16 U	1/17/2012	1.15 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	1.98 J Z	5.66 U	5.57 U B	1.57 J Z	5.82 U B	5.41 U B, Z	5.77 U B
2,3,4,7,8-PeCDF	ng/kg	2.52 J Z	5.66 U	5.57 U B	18.7	5.82 U B	1.06 J Z	5.77 U B
1,2,3,7,8-PeCDF	ng/kg	2.16 J Z	0.0468 J Z	0.0939 J Z	39.5	0.0843 J Z	4.27 J Z	5.77 U B
1,2,3,6,7,8-HxCDF	ng/kg	1.77 J Z	5.66 U B	5.57 U B	3.15 J Z	5.82 U B	0.488 J Z	5.77 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.43 J Z	0.105 J Z	0.0590 J Z	0.739 J Z	0.219 J Z	1.14 J Z	5.77 U B
2,3,4,6,7,8-HxCDF	ng/kg	1.92 J Z	0.0584 J Z	0.0503 J Z	1.94 J Z	0.0768 J Z	0.403 J Z	5.77 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	33.4	0.319 J Z	5.57 U B	3.19 J Z	5.82 U B	3.43 J Z	5.77 U B
1,2,3,4,7,8-HxCDF	ng/kg	4.93 J Z	5.66 U B	5.57 U B	6.95	5.82 U B	2.08 J Z	5.77 U B
1,2,3,7,8,9-HxCDF	ng/kg	1.40 J Z	5.66 U B	5.57 U B	2.04 J Z	5.82 U	0.353 J Z	5.77 U B
Aroclor 1260	ug/kg	3	1.9 U	1.9 U	970 U	0.72 J Z	22	2.0 U
Aroclor 1254	ug/kg	7.8	0.57 J Z	1.9 U	1300	1.8 J Z	18 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	1.9 U	970 U	2.0 U	18 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	1.9 U	970 U	2.0 U	18 U	2.0 U
Aroclor 5460	ug/kg	9	3.8 U	3.7 U	1900 U	3.9 U	15 J Z	3.8 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	1.9 U	970 U	2.0 U	18 U	2.0 U
Aroclor 5442	ug/kg	4.0 U	3.8 U	3.7 U	1900 U	3.9 U	36 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	1.9 U	970 U	2.0 U	18 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	1.9 U	970 U	2.0 U	18 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	1.9 U	970 U	2.0 U	18 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	1.9 U	970 U	2.0 U	18 U	2.0 U
Aroclor 5432	ug/kg	4.0 U	3.8 U	3.7 U	1900 U	3.9 U	36 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-008-SA5DN-SB-9.0-10.0	SL-009-SA5DN-SS-0.0-0.5	SL-009-SA5DN-SB-4.0-5.0	SL-009-SA5DN-SB-9.0-10.0	SL-010-SA5DN-SS-0.0-0.5	SL-010-SA5DN-SB-4.0-5.0	SL-010-SA5DN-SB-9.0-10.0
Sample Date		05/31/2011	05/23/2011	08/09/2011	08/09/2011	05/23/2011	05/31/2011	05/31/2011
SDG		DX094	DX088	DX126	DX126	DX088	DX094	DX094
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.10 U B	0.139 J Z	1.10 U	1.11 U	1.01 U B, Z	1.11 U B	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.52 U B	1.43 J Z	5.51 UJ B, FD	5.56 U B	5.05 U B, Z	5.56 U B	5.62 U B
OCDD	ng/kg	11.0 U B	655	4.04 J Z	9.81 J Z	49.4	11.1 U B	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.52 U B	42.5	5.51 U B	1.08 J Z	4.15 J Z	5.56 U B	5.62 U B
OCDF	ng/kg	11.0 U B	21.4	0.140 J FD, Z	0.381 J Z	1.33 J Z	11.1 U B	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0411 J Z	0.815 J Z	5.51 UJ FD	0.127 J Z	5.05 U B, Z	0.0762 J Z	0.0458 J Z
1,2,3,7,8-PeCDD	ng/kg	5.52 U B	0.519 J Z	5.51 UJ FD	5.56 U B	5.05 U B, Z	5.56 U B	5.62 U B
2,3,7,8-TCDF	ng/kg	1.10 U B	0.504 J Z	1.10 U	1.11 U	1.01 U	1.11 U B	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.52 U B	0.546 J Z	5.51 UJ FD	5.56 U	5.05 U B, Z	5.56 U B	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	5.52 U B	0.933 J Z	0.100 J Z	0.186 J Z	5.05 U B, Z	5.56 U B	5.62 U B
1,2,3,7,8-PeCDF	ng/kg	5.52 U B	2.24 J Z	0.125 J FD, Z	0.221 J Z	5.05 U B, Z	5.56 U B	5.62 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.52 U B	0.681 J Z	5.51 UJ FD	5.56 U	5.05 U B, Z	5.56 U B	5.62 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.52 U B	1.71 J Z	5.51 U B	5.56 U B	5.05 U B, Z	5.56 U B	5.62 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.52 U B	0.711 J Z	5.51 U B	5.56 U B	5.05 U B, Z	5.56 U B	5.62 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.52 U B	9.93	5.51 U B	5.56 U B	5.05 U B, Z	5.56 U B	5.62 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.52 U B	0.979 J Z	5.51 UJ FD	5.56 U B	5.05 U B, Z	5.56 U B	5.62 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.52 U B	0.448 J Z	0.0413 J Z	0.0954 J Z	5.05 U B, Z	5.56 U B	5.62 U B
Aroclor 1260	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.6 U	22 U	3.6 U	3.8 U	3.4 U	3.8 U	3.8 U
Aroclor 1232	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	22 U	3.6 U	3.8 U	3.4 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	11 U	1.9 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	22 U	3.6 U	3.8 U	3.4 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-011-SA5DN-SS-0.0-0.5	SL-011-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SS-0.0-0.5	SL-012-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SB-9.0-10.0	SL-013-SA5DN-SS-0.0-0.5	SL-013-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	08/09/2011	05/23/2011	08/09/2011	08/09/2011	05/23/2011	05/31/2011
SDG		DX088	DX126	DX088	DX126	DX126	DX088	DX094
Start Depth		0	4	0	4	9	0	4
End Depth		0.5	5	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.12 U B, Z	0.105 J Z	1.10 U B, Z	1.01 U	1.16 U	1.01 U B, Z	1.13 U B
1,2,3,7,8,9-HxCDD	ng/kg	0.484 J Z	5.60 U B	0.617 J Z	5.04 U B	5.80 U B	0.418 J Z	5.66 U B
OCDD	ng/kg	97.4	3.03 J Z	428	8.10 J Z	6.21 J Z	195	11.3 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	8.58	5.60 U B	27.4	1.13 J Z	5.80 U B	14.8	5.66 U B
OCDF	ng/kg	4.25 J Z	0.225 J Z	7.74 J Z	0.534 J Z	0.182 J Z	4.42 J Z	11.3 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.270 J Z	0.0521 J Z	0.161 J Z	5.04 U	5.80 U	0.238 J Z	5.66 U
1,2,3,7,8-PeCDD	ng/kg	0.157 J Z	5.60 U	0.152 J Z	5.04 U B	5.80 U	0.207 J Z	5.66 U B
2,3,7,8-TCDF	ng/kg	0.350 J Z	1.12 U	0.105 J Z	1.01 U	1.16 U	0.197 J Z	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.60 U B, Z	5.60 U	0.351 J Z	5.04 U	5.80 U B	5.04 U B, Z	5.66 U B
2,3,4,7,8-PeCDF	ng/kg	0.425 J Z	0.0642 J Z	0.402 J Z	0.0374 J Z	5.80 U	0.478 J Z	5.66 U B
1,2,3,7,8-PeCDF	ng/kg	1.56 J Z	5.60 U	0.440 J Z	0.0624 J Z	0.0404 J Z	0.257 J Z	5.66 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.279 J Z	5.60 U	0.376 J Z	5.04 U	5.80 U B	5.04 U B, Z	5.66 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.437 J Z	5.60 U B	0.915 J Z	5.04 U B	5.80 U	0.657 J Z	5.66 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.60 U B, Z	5.60 U B	5.52 U B, Z	5.04 U	5.80 U	5.04 U B, Z	5.66 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	2.13 J Z	5.60 U B	4.44 J Z	5.04 U B	5.80 U B	1.75 J Z	5.66 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.363 J Z	5.60 U	0.472 J Z	5.04 U	5.80 U B	5.04 U B, Z	5.66 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.60 U B, Z	5.60 U	0.512 J Z	0.104 J Z	0.0363 J Z	5.04 U B, Z	5.66 U B
Aroclor 1260	ug/kg	6.2	1.9 U	23	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	3.7 U	3.7 U	3.7 U	3.4 U	3.8 U	3.4 U	3.8 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.7 U	3.7 U	3.7 U	3.4 U	3.8 U	3.4 U	3.8 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.7 U	3.7 U	3.7 U	3.4 U	3.8 U	3.4 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-013-SA5DN-SB-9.0-10.0	SL-014-SA5DN-SS-0.0-0.5	SL-014-SA5DN-SB-4.0-5.0	SL-014-SA5DN-SB-9.0-10.0	SL-015-SA5DN-SS-0.0-0.5	SL-015-SA5DN-SB-4.0-5.0	SL-015-SA5DN-SB-12.0-13.0
Sample Date		05/31/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	06/01/2011	06/01/2011
SDG		DX094	DX088	DX095	DX095	DX087	DX096	DX096
Start Depth		9	0	4	9	0	4	12
End Depth		10	0.5	5	10	0.5	5	13
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.11 U	1.09 U B, Z	1.12 U B	0.449 J Z	0.109 J Z	1.11 U B	1.09 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.53 U B	0.482 J Z	5.58 UJ B, FD	1.86 J Z	5.38 J Z	0.340 J Z	5.43 U B
OCDD	ng/kg	11.1 U B	173	11.2 UJ B, FD	11.5 U B	13100 J *#	71	10.9 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.53 U B	14	5.58 U B	2.57 J Z	709	5.39 J Z	5.43 U B
OCDF	ng/kg	11.1 U B	2.87 J Z	11.2 UJ B, FD	5.90 J Z	71.5	11.1 U B	10.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.53 U	0.165 J Z	5.58 UJ B, FD	1.88 J Z	2.39 J Z	5.56 U B	5.43 U B
1,2,3,7,8-PeCDD	ng/kg	5.53 U	5.46 U B, Z	5.58 UJ B, FD	1.82 J Z	0.760 J Z	5.56 U B	5.43 U B
2,3,7,8-TCDF	ng/kg	1.11 U	0.515 J Z	1.12 U	0.343 J Z	0.340 J Z	0.0689 J Z	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.53 U B	5.46 U B, Z	5.58 UJ B, FD	2.83 J Z	2.06 J Z	5.56 U B	5.43 U B
2,3,4,7,8-PeCDF	ng/kg	5.53 U B	0.428 J Z	5.58 UJ B, FD	1.58 J Z	0.717 J Z	5.56 U B	5.43 U B
1,2,3,7,8-PeCDF	ng/kg	5.53 U B	2.10 J Z	5.58 UJ B, FD	1.42 J Z	0.823 J Z	0.187 J Z	5.43 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U B	0.363 J Z	5.58 UJ B, FD	1.73 J Z	0.723 J Z	5.56 U B	5.43 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.53 U B	0.500 J Z	5.58 UJ B, FD	1.84 J Z	14.6	0.297 J Z	5.43 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U B	5.46 U B, Z	5.58 U B	1.45 J Z	0.799 J Z	5.56 U B	5.43 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.53 U B	1.29 J Z	5.58 UJ B, FD	1.80 J Z	26	5.56 U B	5.43 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U B	1.87 J Z	5.58 UJ FD	1.60 J Z	2.12 J Z	5.56 U B	5.43 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.53 U	0.425 J Z	5.58 UJ B, FD	2.26 J Z	5.54 U B, Z	0.377 J Z	5.43 U B
Aroclor 1260	ug/kg	1.9 U	34	1.9 U	2.0 U	55	6.1	1.9 U
Aroclor 1254	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.8 U	37 U	3.7 U	3.8 U	38 U	3.8 U	3.6 U
Aroclor 1232	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	37 U	3.7 U	3.8 U	38 U	3.8 U	3.6 U
Aroclor 1248	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	19 U	1.9 U	2.0 U	19 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	37 U	3.7 U	3.8 U	38 U	3.8 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA5DN-SS-0.0-0.5	SL-016-SA5DN-SB-4.0-5.0	SL-016-SA5DN-SB-12.0-13.0	SL-017-SA5DN-SS-0.0-0.5	SL-017-SA5DN-SB-4.0-5.0	SL-017-SA5DN-SB-7.0-8.0	SL-018-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011
SDG		DX087	DX098	DX098	DX087	DX096	DX096	DX088
Start Depth		0	4	12	0	4	7	0
End Depth		0.5	5	13	0.5	5	8	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0564 J Z	1.18 U B	1.12 U	0.0612 J Z	1.13 U	1.12 U B	0.290 J Z
1,2,3,7,8,9-HxCDD	ng/kg	1.28 J Z	0.337 J Z	5.59 U B	0.639 J Z	5.63 U B	5.60 U B	1.44 J Z
OCDD	ng/kg	1930	23	10.9 J Z	126	11.3 U B	11.2 U B	222
1,2,3,4,6,7,8-HpCDD	ng/kg	110	2.16 J Z	1.14 J Z	10.3	5.63 U B	5.60 U B	15.7
OCDF	ng/kg	12.7	11.8 U B	11.2 U B	4.42 J Z	11.3 U B	11.2 U B	6.72 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.518 J Z	5.90 U B	5.59 U B	5.49 U B, Z	5.63 U	5.60 U B	0.542 J Z
1,2,3,7,8-PeCDD	ng/kg	5.38 U B, Z	5.90 U B	5.59 U	0.438 J Z	5.63 U	5.60 U B	0.560 J Z
2,3,7,8-TCDF	ng/kg	1.09	1.18 U	1.12 U	2/8/2012	0.0227 J Z	0.0113 J Z	1.64 Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.38 U B, Z	5.90 U B	5.59 U B	5.49 U B, Z	5.63 U B	5.60 U B	0.743 J Z
2,3,4,7,8-PeCDF	ng/kg	1.18 J Z	0.179 J Z	0.0783 J Z	2.28 J Z	5.63 U B	5.60 U B	1.84 J Z
1,2,3,7,8-PeCDF	ng/kg	4.39 J Z	5.90 U B	5.59 U B	5.65	5.63 U B	5.60 U B	6.92
1,2,3,6,7,8-HxCDF	ng/kg	0.791 J Z	5.90 U B	5.59 U B	0.948 J Z	5.63 U	5.60 U B	1.47 J Z
1,2,3,6,7,8-HxCDD	ng/kg	2.51 J Z	0.240 J Z	5.59 U B	0.543 J Z	5.63 U	5.60 U B	1.34 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.465 J Z	5.90 U B	5.59 U B	0.693 J Z	5.63 U B	5.60 U B	0.969 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	4.92 J Z	5.90 U B	5.59 U B	2.11 J Z	5.63 U B	5.60 U B	3.23 J Z
1,2,3,4,7,8-HxCDF	ng/kg	7.94	5.90 U B	5.59 U B	18.5	5.63 U B	5.60 U B	7.67
1,2,3,7,8,9-HxCDF	ng/kg	5.38 U B, Z	5.90 U B	5.59 U B	5.49 U B, Z	5.63 U B	5.60 U B	1.33 J Z
Aroclor 1260	ug/kg	140	2.3 J S	1.3 J Z	32	1.2 J Z	1.9 U	200
Aroclor 1254	ug/kg	19 U	13 J S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 1268	ug/kg	19 U	2.0 UJ S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 1221	ug/kg	19 U	2.0 UJ S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 5460	ug/kg	37 U	8.3 J S, L	3.7 UJ L	18 U	3.8 U	3.8 U	73 U
Aroclor 1232	ug/kg	19 U	2.0 UJ S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 5442	ug/kg	37 U	3.9 UJ S, L	3.7 UJ L	18 U	3.8 U	3.8 U	73 U
Aroclor 1248	ug/kg	19 U	2.0 UJ S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 1016	ug/kg	19 U	2.0 UJ S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 1262	ug/kg	19 U	2.0 UJ S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 1242	ug/kg	19 U	2.0 UJ S	1.9 U	9.5 U	2.0 U	1.9 U	37 U
Aroclor 5432	ug/kg	37 U	3.9 UJ S, L	3.7 UJ L	18 U	3.8 U	3.8 U	73 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-018-SA5DN-SB-4.0-5.0	SL-018-SA5DN-SB-7.5-8.5	SL-019-SA5DN-SS-0.0-0.5	SL-019-SA5DN-SB-4.0-5.0	SL-019-SA5DN-SB-9.0-10.0	SL-020-SA5DN-SS-0.0-0.5	SL-020-SA5DN-SB-3.5-4.5
Sample Date		06/01/2011	06/01/2011	05/23/2011	06/03/2011	06/03/2011	05/20/2011	06/15/2011
SDG		DX096	DX096	DX087	DX098	DX098	DX085	DX103
Start Depth		4	7.5	0	4	9	0	3.5
End Depth		5	8.5	0.5	5	10	0.5	4.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U B	1.10 U B	0.0320 J Z	0.0171 J Z	0.0365 J Z	1.03 U B, Z	0.0328 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.38 U B	0.406 J Z	0.693 J Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
OCDD	ng/kg	10.8 U B	6.48 J Z	426	11.3 U B	14.4	59.5	10.9 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.38 U B	5.50 U B	27.7	5.63 U B	5.52 U B	5.34	5.47 U B
OCDF	ng/kg	10.8 U B	11.0 U B	4.52 J Z	11.3 U B	11.0 U B	10.3 U B, Z	10.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.38 U B	0.330 J Z	5.70 U B, Z	0.0347 J Z	5.52 U B	5.17 U B, Z	0.0443 J Z
1,2,3,7,8-PeCDD	ng/kg	5.38 U B	0.297 J Z	5.70 U B, Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
2,3,7,8-TCDF	ng/kg	0.0366 J Z	0.0433 J Z	0.141 J Z	0.0171 J Z	0.0264 J Z	1.03 U	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.38 U B	0.365 J Z	5.70 U B, Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
2,3,4,7,8-PeCDF	ng/kg	5.38 U B	5.50 U B	5.70 U B, Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
1,2,3,7,8-PeCDF	ng/kg	5.38 U B	0.279 J Z	0.342 J Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.38 U B	0.296 J Z	5.70 U B, Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.38 U B	0.364 J Z	0.896 J Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.38 U B	0.323 J Z	5.70 U B, Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.38 U B	0.482 J Z	1.60 J Z	5.63 U B	5.52 U B	5.17 U B, Z	5.47 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.38 U B	0.353 J Z	0.779 J Z	5.63 U B	5.52 U B	0.749 J Z	5.47 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.38 U B	0.356 J Z	5.70 U B, Z	5.63 U B	5.52 U B	5.17 U B, Z	0.0617 J Z
Aroclor 1260	ug/kg	0.70 J Z	1.9 U	5.8	2.0 UJ C	1.9 UJ C	0.60 J Z	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	2.0 U	2.0 UJ C	1.9 UJ C	1.8 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	3.6 U	1.5 J Z	3.8 U	3.7 U	3.5 UJ C	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.6 U	3.8 U	3.8 U	3.7 U	3.5 UJ C	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.0 U	2.0 UJ C	1.9 UJ C	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	2.0 U	2.0 UJ C	1.9 UJ C	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.6 U	3.8 U	3.8 U	3.7 U	3.5 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA5DN-SS-0.0-0.5	SL-021-SA5DN-SB-4.0-5.0	SL-021-SA5DN-SB-19.5-20.5	SL-022-SA5DN-SS-0.0-0.5	SL-022-SA5DN-SB-4.0-5.0	SL-022-SA5DN-SB-15.0-16.0	SL-023-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/06/2011	06/06/2011	05/23/2011
SDG		DX087	DX098	DX098	DX087	DX099	DX099	DX087
Start Depth		0	4	19.5	0	4	15	0
End Depth		0.5	5	20.5	0.5	5	16	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0317 J Z	1.13 U B	1.11 U	0.0446 J Z	1.12 U	0.0259 J Z	0.0243 J Z
1,2,3,7,8,9-HxCDD	ng/kg	3.84 J Z	0.187 J Z	5.56 U B	1.42 J Z	5.60 U B	5.33 U B	0.891 J Z
OCDD	ng/kg	9760 J *#	43.8	46.9	786 J Q, E	11.2 U B	10.7 U B	911
1,2,3,4,6,7,8-HpCDD	ng/kg	535	3.04 J Z	2.96 J Z	81.1	5.60 U B	5.33 U B	73.4
OCDF	ng/kg	53.2	11.3 U B	11.1 U B	15	11.2 U B	10.7 U B	8.57 J Z
1,2,3,4,7,8-HxCDD	ng/kg	1.45 J Z	5.63 U	5.56 U	0.625 J Z	0.0595 J Z	0.121 J Z	0.329 J Z
1,2,3,7,8-PeCDD	ng/kg	5.67 U B, Z	5.63 U B	5.56 U	0.285 J Z	0.0754 J Z	0.0982 J Z	5.57 U B, Z
2,3,7,8-TCDF	ng/kg	0.320 J Z	1.13 U	1.11 U	0.246 J FD, Z	1.12 U	0.0265 J Z	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	1.56 J Z	5.63 U B	5.56 U B	5.65 U B, Z	5.60 U B	5.33 U B	5.57 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.67 U B, Z	0.154 J Z	5.56 U B	0.641 J Z	5.60 U B	5.33 U B	5.57 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.660 J Z	5.63 U B	5.56 U B	0.673 J Z	5.60 U B	5.33 U B	0.498 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.67 U B, Z	5.63 U	5.56 U B	5.65 U B, Z	5.60 U B	5.33 U B	5.57 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	10.3	5.63 U B	5.56 U B	1.99 J Z	5.60 U B	5.33 U B	1.40 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.449 J Z	5.63 U B	5.56 U	5.65 U B, Z	5.60 U B	0.131 J Z	5.57 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	19.1	5.63 U B	5.56 U B	5.13 J Z	5.60 U B	5.33 U B	3.03 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.612 J Z	5.63 U B	5.56 U B	0.673 J Z	5.60 U B	5.33 U B	5.57 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.67 U B, Z	5.63 U B	5.56 U B	5.65 U B, Z	5.60 U B	5.33 U B	5.57 U B, Z
Aroclor 1260	ug/kg	6.8	3.7	1.9 U	1.9 UJ FD	1.9 U	1.8 U	1.6 J Z
Aroclor 1254	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	9.7	1.4 J L, Z	3.7 UJ L	3.8 UJ FD	3.8 UJ E	3.6 UJ E	1.6 J Z
Aroclor 1232	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.8 UJ L	3.7 UJ L	3.8 U	3.8 UJ E	3.6 UJ E	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.8 UJ L	3.7 UJ L	3.8 U	3.8 UJ E	3.6 UJ E	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-023-SA5DN-SB-4.0-5.0	SL-023-SA5DN-SB-20.0-21.0	SL-024-SA5DN-SS-0.0-0.5	SL-024-SA5DN-SB-4.0-5.0	SL-024-SA5DN-SB-19.0-20.0	SL-025-SA5DN-SS-0.0-0.5	SL-025-SA5DN-SB-4.0-5.0
Sample Date		06/08/2011	06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/08/2011
SDG		DX100	DX100	DX085	DX099	DX099	DX085	DX100
Start Depth		4	20	0	4	19	0	4
End Depth		5	21	0.5	5	20	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.10 U	1.09 U	1.13 U B, Z	0.0887 J FD, Z	0.0220 J Z	1.13 U B, Z	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	5.48 U B	5.44 U B	2.75 J Z	5.63 U B	5.45 U B	2.18 J Z	5.57 U B
OCDD	ng/kg	18.2	10.9 U B	4160	13.5	10.9 U B	3370	19.9
1,2,3,4,6,7,8-HpCDD	ng/kg	2.02 J Z	5.44 U B	396	5.63 U B	5.45 U B	278	2.07 J Z
OCDF	ng/kg	11.0 U B	10.9 U B	35.9	11.3 U B	10.9 U B	21.7	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.48 U B	5.44 U	1.08 J Z	0.0830 J FD, Z	0.142 J Z	0.749 J Z	5.57 U B
1,2,3,7,8-PeCDD	ng/kg	5.48 U B	5.44 U	5.63 U B, Z	0.250 J FD, Z	0.142 J Z	5.65 U B, Z	5.57 U B
2,3,7,8-TCDF	ng/kg	1.10 U	0.0220 J Z	0.181 J Z	0.0933 J FD, Z	0.0368 J Z	1.13 U B, Z	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.48 U B	5.44 U B	1.15 J Z	5.63 UJ B, FD	5.45 U B	0.852 J Z	5.57 U B
2,3,4,7,8-PeCDF	ng/kg	5.48 U B	5.44 U B	5.63 U	5.63 UJ B, FD	5.45 U B	5.65 U B, Z	5.57 U B
1,2,3,7,8-PeCDF	ng/kg	5.48 U B	5.44 U B	5.63 U B, Z	0.337 J FD, Z	0.164 J Z	5.65 U B, Z	5.57 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.48 U B	5.44 U B	5.63 U B, Z	0.150 J FD, Z	0.146 J Z	5.65 U B, Z	5.57 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.48 U B	5.44 U B	5.83	5.63 U B	5.45 U B	4.67 J Z	5.57 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.48 U B	5.44 U B	5.63 U B, Z	5.63 UJ B, FD	0.133 J Z	5.65 U B, Z	5.57 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.48 U B	5.44 U B	11.3	5.63 U B	5.45 U B	8.31	5.57 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.48 U B	5.44 U B	5.63 U B, Z	5.63 UJ B, FD	5.45 U B	5.65 U B, Z	5.57 U
1,2,3,7,8,9-HxCDF	ng/kg	0.228 J Z	5.44 U B	5.63 U B, Z	5.63 UJ B, FD	5.45 U B	5.65 U B, Z	0.199 J Z
Aroclor 1260	ug/kg	1.9 U	1.9 U	0.91 J Z	1.9 U	1.9 U	2	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	3.6 U	1.3 J Z, C	3.7 U	3.7 U	5.1 J C	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.6 U	3.8 UJ C	3.7 U	3.7 U	3.8 UJ C	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.7 UJ C	3.6 UJ C	3.8 U	3.7 U	3.7 U	3.8 U	3.7 UJ C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-025-SA5DN-SB-23.0-24.0	SL-026-SA5DN-SS-0.0-0.5	SL-026-SA5DN-SB-4.0-5.0	SL-026-SA5DN-SB-17.0-18.0	SL-027-SA5DN-SS-0.0-0.5	SL-027-SA5DN-SB-4.0-5.0	SL-027-SA5DN-SB-14.0-15.0
Sample Date		06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/03/2011	06/03/2011
SDG		DX100	DX085	DX099	DX099	DX085	DX098	DX098
Start Depth		23	0	4	17	0	4	14
End Depth		24	0.5	5	18	0.5	5	15
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.10 U B	1.11 U	0.0247 J Z	1.08 U	1.16 U B, Z	1.09 U	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	5.52 U B	1.03 J Z	0.538 J Z	5.40 U B	0.829 J Z	0.245 J Z	5.53 U B
OCDD	ng/kg	11.0 U B	804	57.7	34.5	246	53.8	11.1 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.52 U B	64.5	5.44 J Z	5.40 U B	19.1	2.11 J Z	5.53 U B
OCDF	ng/kg	11.0 U B	6.68 J Z	1.49 J Z	10.8 U B	4.60 J Z	10.9 U B	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.52 U	5.53 U B, Z	0.0531 J Z	5.40 U	5.80 U B, Z	0.0265 J Z	0.0141 J Z
1,2,3,7,8-PeCDD	ng/kg	5.52 U B	5.53 U B, Z	0.0763 J Z	5.40 U	5.80 U B, Z	5.47 U B	5.53 U
2,3,7,8-TCDF	ng/kg	1.10 U	1.11 U B, Z	1.15 U	1.08 U	0.237 J Z	1.09 U	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.52 U B	5.53 U B, Z	5.74 U B	5.40 U B	5.80 U B, Z	5.47 U B	5.53 U
2,3,4,7,8-PeCDF	ng/kg	5.52 U B	5.53 U B, Z	5.74 U B	5.40 U B	5.80 U B, Z	5.47 U B	5.53 U B
1,2,3,7,8-PeCDF	ng/kg	5.52 U B	5.53 U B, Z	0.156 J Z	5.40 U B	5.80 U B, Z	5.47 U B	5.53 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.52 U B	5.53 U B, Z	5.74 U B	5.40 U	5.80 U B, Z	5.47 U B	5.53 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.52 U B	1.34 J Z	0.438 J Z	5.40 U B	0.787 J Z	5.47 U B	5.53 U
2,3,4,6,7,8-HxCDF	ng/kg	5.52 U	5.53 U B, Z	5.74 U B	5.40 U B	5.80 U B, Z	5.47 U B	5.53 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.52 U B	2.41 J Z	0.462 J Z	5.40 U B	1.58 J Z	5.47 U B	5.53 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.52 U B	5.53 U B, Z	5.74 U	5.40 U B	1.08 J Z	5.47 U B	5.53 U
1,2,3,7,8,9-HxCDF	ng/kg	5.52 U B	5.53 U B, Z	0.693 J Z	5.40 U B	5.80 U B, Z	0.317 J Z	5.53 U B
Aroclor 1260	ug/kg	1.9 U	6.0 J *#	0.54 J Z	1.8 U	6.2	0.46 J Z, C, *#	1.9 UJ C
Aroclor 1254	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 UJ C	1.9 UJ C
Aroclor 1268	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	8.4 J C	3.9 U	3.6 U	2.6 J Z, C	3.8 U	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.8 UJ C	3.9 U	3.6 U	3.8 UJ C	3.8 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 UJ C	1.9 UJ C
Aroclor 1016	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 UJ C	1.9 UJ C
Aroclor 5432	ug/kg	3.7 UJ C	3.8 U	3.9 U	3.6 U	3.8 U	3.8 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-028-SA5DN-SS-0.0-0.5	SL-028-SA5DN-SB-4.0-5.0	SL-028-SA5DN-SB-11.5-12.5	SL-029-SA5DN-SS-0.0-0.5	SL-029-SA5DN-SB-4.0-5.0	SL-030-SA5DN-SS-0.0-0.5	SL-030-SA5DN-SB-4.0-5.0
Sample Date		05/20/2011	06/08/2011	06/08/2011	05/20/2011	06/15/2011	05/19/2011	06/15/2011
SDG		DX085	DX100	DX100	DX085	DX103	DX084	DX103
Start Depth		0	4	11.5	0	4	0	4
End Depth		0.5	5	12.5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U B, Z	1.16 U	1.07 U	1.15 U B, Z	1.08 U	0.0662 J Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.639 J Z	0.284 J Z	5.37 U B	0.723 J Z	5.42 U B	0.659 J Z	5.65 U B
OCDD	ng/kg	149	30.8	24	173	10.8 U B	318	11.3 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	10.8	2.80 J Z	4.65 J Z	12.7	5.42 U B	23	5.65 U B
OCDF	ng/kg	3.12 J Z	11.6 U B	10.7 U B	3.16 J Z	10.8 U B	3.61 J Z	11.3 UJ B, FD
1,2,3,4,7,8-HxCDD	ng/kg	5.72 U B, Z	5.81 U B	5.37 U B	5.73 U B, Z	0.0292 J Z	0.273 J Z	0.0294 J FD, Z
1,2,3,7,8-PeCDD	ng/kg	5.72 U B, Z	5.81 U B	5.37 U	5.73 U B, Z	5.42 U	5.74 U B, Z	5.65 U
2,3,7,8-TCDF	ng/kg	0.265 J Z	0.0418 J Z	0.120 J Z	0.246 J Z	1.08 U	1.15 U B, Z	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.72 U B, Z	5.81 U B	5.37 U B	5.73 U B, Z	5.42 U B	5.74 U B, Z	5.65 UJ B, FD
2,3,4,7,8-PeCDF	ng/kg	5.72 U B, Z	5.81 U B	1.03 J Z	5.73 U B, Z	5.42 U B	0.388 J Z	5.65 U B
1,2,3,7,8-PeCDF	ng/kg	0.596 J Z	0.148 J Z	0.140 J Z	0.604 J Z	5.42 U B	0.283 J Z	5.65 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.72 U B, Z	5.81 U B	0.117 J Z	5.73 U B, Z	5.42 U B	5.74 U B, Z	5.65 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.596 J Z	0.212 J Z	0.153 J Z	0.714 J Z	5.42 U B	0.784 J Z	5.65 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.72 U B, Z	5.81 U B	0.129 J Z	5.73 U B, Z	5.42 U B	5.74 U B, Z	5.65 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.32 J Z	0.390 J Z	0.453 J Z	1.47 J Z	5.42 U B	1.64 J Z	5.65 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.72 U B, Z	5.81 U B	0.418 J Z	5.73 U B, Z	5.42 U B	0.592 J Z	5.65 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.72 U B, Z	0.327 J Z	0.211 J Z	5.73 U B, Z	0.0440 J Z	0.432 J Z	0.0888 J Z
Aroclor 1260	ug/kg	2.3	0.54 J Z	11	4	1.9 U	2.6	1.9 U
Aroclor 1254	ug/kg	2.0 U	0.58 J Z, *#	77 J *#	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	9.4 U	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	9.4 U	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	2.0 J Z, C	3.8 U	18 U	7.6 UJ C	3.7 U	3.8 U	3.8 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	9.4 U	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.8 UJ C	3.8 U	18 U	7.6 UJ C	3.7 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	120 J *#	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	9.4 U	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	9.4 U	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	9.4 U	3.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.8 UJ C	18 UJ C	7.6 U	3.7 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-031-SA5DN-SS-0.0-0.5	SL-031-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SS-0.0-0.5	SL-032-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SB-10.0-11.0	SL-033-SA5DN-SS-0.0-0.5	SL-033-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/19/2011	06/14/2011
SDG		DX084	DX103	DX084	DX102	DX102	DX084	DX102
Start Depth		0	4	0	4	10	0	4
End Depth		0.5	5	0.5	5	11	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.16 U	1.13 U	1.11 U B, Z	1.10 U B	1.08 U B	0.0495 J Z	1.12 UJ B, FD
1,2,3,7,8,9-HxCDD	ng/kg	5.78 U B, Z	5.65 U B	0.579 J Z	5.51 U B	5.42 U B	0.553 J Z	5.62 U B
OCDD	ng/kg	53.7	11.3 U B	189	11.0 U B	10.8 U B	152	14.7 J FD, E
1,2,3,4,6,7,8-HpCDD	ng/kg	3.26 J Z	5.65 U B	15	5.51 U B	5.42 U B	11.3	2.80 J FD, Z
OCDF	ng/kg	11.6 U B, Z	11.3 U B	3.06 J Z	11.0 U B	10.8 U B	2.14 J Z	11.2 UJ B, FD
1,2,3,4,7,8-HxCDD	ng/kg	5.78 U B, Z	0.0876 J Z	5.55 U B, Z	5.51 U B	5.42 U B	5.82 U B, Z	5.62 UJ B, FD
1,2,3,7,8-PeCDD	ng/kg	5.78 U B, Z	5.65 U B	5.55 U B, Z	5.51 U B	5.42 U B	5.82 U B, Z	5.62 UJ FD
2,3,7,8-TCDF	ng/kg	1.16 U	1.13 U	0.984 J Z	1.10 U B	1.08 U B	1.16 U B, Z	1.12 UJ B, FD
1,2,3,4,7,8,9-HpCDF	ng/kg	5.78 U B, Z	5.65 U B	5.55 U B, Z	5.51 U B	5.42 U B	5.82 U B, Z	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	5.78 U B, Z	5.65 U B	0.876 J Z	5.51 U B	5.42 U B	5.82 U B, Z	5.62 UJ B, FD
1,2,3,7,8-PeCDF	ng/kg	5.78 U B, Z	5.65 U B	0.356 J Z	0.244 J Z	5.42 U B	5.82 U B, Z	5.62 UJ B, FD
1,2,3,6,7,8-HxCDF	ng/kg	5.78 U B, Z	5.65 U B	5.55 U B, Z	5.51 U B	5.42 U B	5.82 U B, Z	5.62 UJ B, FD
1,2,3,6,7,8-HxCDD	ng/kg	5.78 U B, Z	5.65 U B	0.576 J Z	5.51 U B	5.42 U B	0.504 J Z	5.62 UJ B, FD
2,3,4,6,7,8-HxCDF	ng/kg	5.78 U B, Z	5.65 U B	5.55 U B, Z	5.51 U B	5.42 U B	5.82 U B, Z	5.62 UJ B, FD
1,2,3,4,6,7,8-HpCDF	ng/kg	5.78 U B, Z	5.65 U B	1.21 J Z	5.51 U B	5.42 U B	2.82 J Z	5.62 UJ B, FD
1,2,3,4,7,8-HxCDF	ng/kg	5.78 U B, Z	5.65 U B	0.582 J Z	5.51 U B	5.42 U B	5.82 U B, Z	5.62 UJ FD
1,2,3,7,8,9-HxCDF	ng/kg	5.78 U B, Z	0.130 J Z	5.55 U B, Z	5.51 U B	5.42 U B	0.423 J Z	5.62 U B
Aroclor 1260	ug/kg	1.2 J Z	1.9 U	4.4	1.9 U	1.9 U	2.0 U	1.4 J FD, Z
Aroclor 1254	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	3.5 J Z	3.8 U	3.6 U	3.8 U	1.8 J FD, Z
Aroclor 1232	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	7.4 U	3.8 U	3.6 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	3.8 U	1.9 U	1.9 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	7.4 U	3.8 U	3.6 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-033-SA5DN-SB-11.0-12.0	SL-034-SA5DN-SS-0.0-0.5	SL-034-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SS-0.0-0.5	SL-035-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SB-9.5-10.5	SL-036-SA5DN-SS-0.0-0.5
Sample Date		06/14/2011	05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/20/2011
SDG		DX102	DX084	DX103	DX084	DX102	DX102	DX085
Start Depth		11	0	4	0	4	9.5	0
End Depth		12	0.5	5	0.5	5	10.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.11 U B	1.09 U	1.10 U	1.12 U	1.14 U	1.11 U B	1.11 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.55 U B	0.524 J Z	5.52 U B	0.554 J Z	5.72 U B	5.53 U B	2.51 J Z
OCDD	ng/kg	11.1 U B	241	11.0 U B	33.9	11.4 U B	11.1 U B	5140 J *#
1,2,3,4,6,7,8-HpCDD	ng/kg	5.55 U B	20.1	5.52 U B	2.86 J Z	5.72 U B	5.53 U B	465
OCDF	ng/kg	11.1 U B	3.78 J Z	11.0 U B	11.2 U B, Z	11.4 U B	11.1 U B	31.7
1,2,3,4,7,8-HxCDD	ng/kg	5.55 U B	0.267 J Z	0.0324 J Z	5.62 U B, Z	5.72 U B	5.53 U B	0.908 J Z
1,2,3,7,8-PeCDD	ng/kg	5.55 U B	5.47 U	5.52 U B	5.62 U B, Z	5.72 U	5.53 U B	5.56 U B, Z
2,3,7,8-TCDF	ng/kg	1.11 U B	1.09 U	1.10 U	1.12 U	1.14 U	1.11 U B	0.428 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.55 U B	5.47 U B, Z	5.52 U B	5.62 U B, Z	5.72 U B	5.53 U B	1.29 J Z
2,3,4,7,8-PeCDF	ng/kg	5.55 U B	0.491 J Z	5.52 U B	5.62 U B, Z	5.72 U B	5.53 U B	5.56 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.55 U B	5.47 U	5.52 U B	5.62 U B, Z	5.72 U B	5.53 U B	5.56 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.55 U B	0.517 J Z	5.52 U B	5.62 U	5.72 U B	5.53 U B	0.634 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.55 U B	0.622 J Z	5.52 U B	0.445 J Z	5.72 U B	5.53 U B	6.77
2,3,4,6,7,8-HxCDF	ng/kg	5.55 U B	0.447 J Z	5.52 U B	5.62 U B, Z	5.72 U B	5.53 U B	5.56 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.55 U B	1.85 J Z	5.52 U B	5.62 U B, Z	5.72 U B	5.53 U B	11.9
1,2,3,4,7,8-HxCDF	ng/kg	5.55 U B	5.47 U B, Z	5.52 U B	5.62 U B, Z	5.72 U B	5.53 U B	0.973 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.55 U B	5.47 U B, Z	0.0472 J Z	0.751 J Z	5.72 U B	5.53 U B	5.56 U B, Z
Aroclor 1260	ug/kg	0.60 J Z	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	21
Aroclor 1254	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 1268	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 1221	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 5460	ug/kg	3.7 U	7.2 U	3.8 U	7.5 U	3.9 U	3.7 U	9.5 J Z, C
Aroclor 1232	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 5442	ug/kg	3.7 U	7.2 U	3.8 U	7.5 U	3.9 U	3.7 U	19 UJ C
Aroclor 1248	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 1016	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 1262	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 1242	ug/kg	1.9 U	3.7 U	1.9 U	3.9 U	2.0 U	1.9 U	9.6 U
Aroclor 5432	ug/kg	3.7 U	7.2 U	3.8 U	7.5 U	3.9 U	3.7 U	19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA5DN-SB-4.0-5.0	SL-036-SA5DN-SB-9.0-10.0	SL-037-SA5DN-SS-0.0-0.5	SL-037-SA5DN-SB-4.0-5.0	SL-037-SA5DN-SB-11.5-12.5	SL-038-SA5DN-SS-0.0-0.5	SL-038-SA5DN-SB-4.0-5.0
Sample Date		06/07/2011	06/07/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011
SDG		DX099	DX099	DX085	DX100	DX100	DX085	DX100
Start Depth		4	9	0	4	11.5	0	4
End Depth		5	10	0.5	5	12.5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.16 U	0.0283 J Z	1.14 U B, Z	1.19 U B	1.10 U	1.16 U B, Z	1.11 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.79 U B	5.71 U B	1.21 J Z	0.419 J Z	5.50 U B	1.88 J Z	0.801 J Z
OCDD	ng/kg	25.8	40.6	1060	39.7	11.0 U B	3320	393
1,2,3,4,6,7,8-HpCDD	ng/kg	2.69 J Z	3.30 J Z	87.5	3.63 J Z	5.50 U B	275	27.8
OCDF	ng/kg	11.6 U B	11.4 U B	11.4	11.9 U B	11.0 U B	21.7	6.00 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0218 J Z	0.0200 J Z	5.70 U B, Z	5.97 U B	5.50 U B	0.656 J Z	0.126 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0336 J Z	0.0243 J Z	5.70 U B, Z	0.101 J Z	5.50 U B	5.80 U B, Z	5.54 U
2,3,7,8-TCDF	ng/kg	1.16 U	1.14 U	0.284 J Z	0.0623 J Z	0.0317 J Z	0.261 J Z	0.207 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.79 U B	5.71 U	5.70 U B, Z	5.97 U B	5.50 U B	0.877 J Z	5.54 U B
2,3,4,7,8-PeCDF	ng/kg	5.79 U B	5.71 U B	5.70 U B, Z	5.97 U B	5.50 U B	5.80 U B, Z	0.515 J Z
1,2,3,7,8-PeCDF	ng/kg	5.79 U B	5.71 U B	5.70 U B, Z	0.338 J Z	5.50 U B	5.80 U B, Z	0.190 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.79 U B	5.71 U B	5.70 U B, Z	0.0921 J Z	5.50 U B	5.80 U B, Z	0.211 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.79 U B	5.71 U B	1.86 J Z	0.335 J Z	5.50 U B	4.00 J Z	0.940 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.79 U B	5.71 U B	5.70 U B, Z	5.97 U B	5.50 U B	5.80 U B, Z	0.139 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.79 U B	5.71 U B	3.65 J Z	5.97 U B	5.50 U B	8.55	1.73 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.79 U B	5.71 U B	5.70 U B, Z	5.97 U B	5.50 U B	5.80 U B, Z	0.770 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.79 U B	5.71 U B	5.70 U B, Z	0.571 J Z	5.50 U B	5.80 U B, Z	0.683 J Z
Aroclor 1260	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	5.8	2
Aroclor 1254	ug/kg	2.0 U	2.0 U	29	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.9 U	3.8 U	4.3 J C	4.0 U	3.7 U	5.9 J C	3.2 J Z
Aroclor 1232	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.9 U	3.8 U	3.8 UJ C	4.0 U	3.7 U	3.8 UJ C	3.8 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	2.0 U	2.1 U	1.9 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.9 U	3.8 U	3.8 U	4.0 U	3.7 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-038-SA5DN-SB-10.5-11.5	SL-039-SA5DN-SS-0.0-0.5	SL-039-SA5DN-SB-4.0-5.0	SL-039-SA5DN-SB-11.5-12.5	SL-040-SA5DN-SS-0.0-0.5	SL-040-SA5DN-SB-4.0-5.0	SL-040-SA5DN-SB-10.5-11.5
Sample Date		06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011
SDG		DX100	DX085	DX100	DX100	DX086	DX101	DX101
Start Depth		10.5	0	4	11.5	0	4	10.5
End Depth		11.5	0.5	5	12.5	0.5	5	11.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U	1.15 U B, Z	1.15 U B	1.12 U	0.0210 J Z	1.16 U B	1.05 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.45 U B	2.34 J Z	2.54 J Z	5.62 U B	1.88 J Z	0.759 J Z	5.23 U B
OCDD	ng/kg	15.9	3830	6890 J *#	293	3420	598	165
1,2,3,4,6,7,8-HpCDD	ng/kg	5.45 U B	361	606	18.5	265	64.1	14.7
OCDF	ng/kg	10.9 U B	23.5	43.9	2.81 J Z	26.9	5.20 J Z	10.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.45 U	0.710 J Z	1.03 J Z	5.62 U B	0.648 J Z	0.191 J Z	0.0286 J Z
1,2,3,7,8-PeCDD	ng/kg	5.45 U B	5.77 U B, Z	0.617 J Z	5.62 U	0.197 J Z	5.79 U B	5.23 U B
2,3,7,8-TCDF	ng/kg	1.09 U	0.231 J Z	1.15 U	1.12 U	0.208 J Z	0.325 J Z	1.05 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.45 U	1.08 J Z	1.13 J Z	5.62 U B	0.662 J Z	5.79 U B	5.23 U B
2,3,4,7,8-PeCDF	ng/kg	5.45 U B	5.77 U B, Z	0.657 J Z	5.62 U B	5.79 U B, Z	0.691 J Z	5.23 U B
1,2,3,7,8-PeCDF	ng/kg	5.45 U B	5.77 U B, Z	0.159 J Z	5.62 U B	5.79 U B, Z	0.834 J Z	5.23 U
1,2,3,6,7,8-HxCDF	ng/kg	5.45 U B	5.77 U B, Z	0.716 J Z	5.62 U B	0.258 J Z	5.79 U B	5.23 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.45 U B	4.97 J Z	8.25	0.326 J Z	3.93 J Z	1.35 J Z	5.23 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.45 U B	5.77 U B, Z	0.412 J Z	5.62 U B	5.79 U B, Z	5.79 U B	5.23 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.45 U B	9.06	14	0.937 J Z	9.21	1.77 J Z	5.23 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.45 U	5.77 U B, Z	0.819 J Z	5.62 U B	0.149 J Z	0.459 J Z	5.23 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.45 U B	5.77 U B, Z	0.576 J Z	5.62 U B	0.459 J Z	0.601 J Z	5.23 U B
Aroclor 1260	ug/kg	1.9 U	1.3 J Z	1.4 J Z	1.9 U	2.2	2.0 U	1.8 U
Aroclor 1254	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 1268	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 5460	ug/kg	3.7 U	1.7 J Z, C	2.3 J Z	3.7 U	3.3 J Z, C	3.8 U	3.5 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 5442	ug/kg	3.7 U	3.9 UJ C	3.9 U	3.7 U	3.8 UJ C	3.8 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.8 U
Aroclor 5432	ug/kg	3.7 U	3.9 U	3.9 U	3.7 U	3.8 U	3.8 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-041-SA5DN-SS-0.0-0.5	SL-041-SA5DN-SB-4.0-5.0	SL-041-SA5DN-SB-9.0-10.0	SL-042-SA5DN-SS-0.0-0.5	SL-042-SA5DN-SB-4.0-5.0	SL-042-SA5DN-SB-9.0-10.0	SL-043-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011
SDG		DX086	DX101	DX101	DX086	DX101	DX101	DX086
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.17 U B, Z	1.19 U	1.10 U B	1.84 U B, Z	1.15 U B	1.09 U B	1.13 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	2.77 J Z	0.778 J Z	5.48 U B	1.47 J Z	0.562 J Z	5.46 U B	1.49 J Z
OCDD	ng/kg	5340 J *#	157	275	1340	750	322	947
1,2,3,4,6,7,8-HpCDD	ng/kg	438	12.5	26.2	100	58.4	23.6	68.7
OCDF	ng/kg	35	2.66 J Z	2.13 J Z	11.8 J Z	7.22 J Z	2.93 J Z	13.1
1,2,3,4,7,8-HxCDD	ng/kg	0.996 J Z	0.173 J Z	0.228 J Z	0.567 J Z	0.276 J Z	0.221 J Z	0.580 J Z
1,2,3,7,8-PeCDD	ng/kg	5.83 U B, Z	5.93 U B	5.48 U B	0.428 J Z	5.77 U B	5.46 U B	5.67 U B, Z
2,3,7,8-TCDF	ng/kg	0.375 J Z	0.113 J Z	0.154 J Z	0.227 J Z	0.0863 J Z	0.143 J Z	0.196 J FD, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.878 J Z	5.93 U B	5.48 U B	9.18 U B, Z	5.77 U B	5.46 U B	5.67 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.83 U B, Z	0.572 J Z	0.412 J Z	9.18 U B, Z	5.77 U B	0.432 J Z	5.67 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.243 J Z	0.570 J Z	0.462 J Z	0.293 J Z	0.386 J Z	0.418 J Z	5.67 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.83 U B, Z	5.93 U B	5.48 U B	9.18 U B, Z	5.77 U B	5.46 U B	5.67 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	6.21	0.686 J Z	0.564 J Z	2.12 J Z	1.28 J Z	0.633 J Z	1.77 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.83 U B, Z	5.93 U B	5.48 U B	9.18 U B, Z	5.77 U B	5.46 U B	5.67 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	11.4	0.988 J Z	0.915 J Z	4.65 J Z	2.44 J Z	1.03 J Z	4.81 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.651 J Z	5.93 U B	5.48 U B	9.18 U B, Z	5.77 U B	0.314 J Z	0.522 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.660 J Z	0.801 J Z	5.48 U B	0.625 J Z	5.77 U B	5.46 U B	5.67 U B, Z
Aroclor 1260	ug/kg	9.9 U	2.9	1.7 J Z	1.9 J Z	0.87 J Z	0.59 J Z	2.5 J FD
Aroclor 1254	ug/kg	34	2.0 U	1.9 U	4.3	2.0 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	9.9 U	2.0 U	1.9 U	3.1 U	2.0 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	9.9 U	2.0 U	1.9 U	3.1 U	2.0 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	27	4.2	2.6 J Z	6.1 U	3.9 U	3.6 U	1.8 J FD, Z
Aroclor 1232	ug/kg	9.9 U	2.0 U	1.9 U	3.1 U	2.0 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	19 U	3.9 U	3.7 U	6.1 U	3.9 U	3.6 U	3.8 U
Aroclor 1248	ug/kg	9.9 U	2.0 U	1.9 U	3.1 U	2.0 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	9.9 U	2.0 U	1.9 U	3.1 U	2.0 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	9.9 U	2.0 U	1.9 U	3.1 U	2.0 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	9.9 U	2.0 U	1.9 U	3.1 U	2.0 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	19 U	3.9 U	3.7 U	6.1 U	3.9 U	3.6 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-043-SA5DN-SB-4.0-5.0	SL-043-SA5DN-SB-9.0-10.0	SL-044-SA5DN-SS-0.0-0.5	SL-044-SA5DN-SB-4.0-5.0	SL-044-SA5DN-SB-12.0-13.0	SL-045-SA5DN-SS-0.0-0.5	SL-045-SA5DN-SB-4.0-5.0
Sample Date		06/13/2011	06/13/2011	05/20/2011	06/14/2011	06/14/2011	05/19/2011	06/10/2011
SDG		DX101	DX101	DX086	DX102	DX102	DX086	DX101
Start Depth		4	9	0	4	12	0	4
End Depth		5	10	0.5	5	13	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U B	1.12 U B	1.11 U B, Z	1.14 U	1.10 U B	1.15 U B, Z	1.17 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.67 U B	5.58 U B	0.664 J Z	5.69 U B	5.52 U B	1.59 J Z	5.83 U B
OCDD	ng/kg	473	11.2 U B	414	11.2 J Z	11.0 U B	1160	11.7 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	34.9	5.58 U B	28.1	5.69 U B	5.52 U B	87.9	5.83 U B
OCDF	ng/kg	3.86 J Z	11.2 U B	6.46 J Z	11.4 U B	11.0 U B	12.3	11.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.104 J Z	5.58 U	5.56 U B, Z	5.69 U B	5.52 U B	0.619 J Z	0.324 J Z
1,2,3,7,8-PeCDD	ng/kg	5.67 U B	5.58 U	5.56 U B, Z	5.69 U B	5.52 U B	0.401 J Z	0.535 J Z
2,3,7,8-TCDF	ng/kg	1.13 U	1.12 U	0.168 J Z	1.14 U B	1.10 U B	0.317 J Z	0.0636 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.67 U B	5.58 U B	5.56 U B, Z	5.69 U B	5.52 U B	5.75 U B, Z	5.83 U B
2,3,4,7,8-PeCDF	ng/kg	5.67 U B	5.58 U B	5.56 U B, Z	5.69 U B	5.52 U B	5.75 U B, Z	0.541 J Z
1,2,3,7,8-PeCDF	ng/kg	5.67 U B	5.58 U B	5.56 U B, Z	0.268 J Z	0.316 J Z	0.471 J Z	0.504 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.67 U B	5.58 U B	5.56 U B, Z	5.69 U B	5.52 U B	5.75 U B, Z	0.384 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.663 J Z	5.58 U	0.853 J Z	5.69 U B	5.52 U B	2.26 J Z	0.329 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.67 U B	5.58 U B	5.56 U B, Z	5.69 U B	5.52 U B	5.75 U B, Z	5.83 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.44 J Z	5.58 U B	2.30 J Z	5.69 U B	5.52 U B	4.51 J Z	5.83 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.67 U B	5.58 U B	0.599 J Z	5.69 U B	5.52 U B	0.556 J Z	0.421 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.67 U B	5.58 U B	0.437 J Z	5.69 U B	5.52 U B	0.719 J Z	5.83 U B
Aroclor 1260	ug/kg	0.74 J Z	2.0 U	1.5 J Z	2.0 U	1.3 J Z	2.0 U	2.0 U
Aroclor 1254	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	3.7	5.5	2.0 U
Aroclor 1268	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	3.7 UJ C	3.9 U	3.7 U	2.0 J Z	3.9 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	3.7 UJ C	3.9 U	3.7 U	3.8 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	4.4	2.0 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	3.7 U	3.9 U	3.7 U	3.8 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-045-SA5DN-SB-9.0-10.0	SL-046-SA5DN-SS-0.0-0.5	SL-046-SA5DN-SB-4.0-5.0	SL-046-SA5DN-SB-9.0-10.0	SL-047-SA5DN-SS-0.0-0.5	SL-047-SA5DN-SB-4.0-5.0	SL-047-SA5DN-SB-10.0-11.0
Sample Date		06/10/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011
SDG		DX101	DX086	DX101	DX101	DX086	DX102	DX102
Start Depth		9	0	4	9	0	4	10
End Depth		10	0.5	5	10	0.5	5	11
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U B	0.150 J Z	1.12 U B	1.11 U	1.08 U	1.12 U	1.05 U
1,2,3,7,8,9-HxCDD	ng/kg	5.70 U B	2.29 J Z	5.60 U B	5.53 U B	2.63 J Z	5.61 U B	5.27 U B
OCDD	ng/kg	5.29 J Z	1430	7.30 J Z	11.1 U B	853	16	11.1
1,2,3,4,6,7,8-HpCDD	ng/kg	5.70 U B	101	5.60 U B	5.53 U B	79.9	5.61 U B	5.27 U B
OCDF	ng/kg	11.4 U B	17.9	11.2 U B	11.1 U B	14	11.2 U B	10.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.100 J Z	0.886 J Z	0.0323 J Z	0.0231 J Z	1.18 J Z	5.61 U B	5.27 U B
1,2,3,7,8-PeCDD	ng/kg	5.70 U B	0.563 J Z	5.60 U	5.53 U	0.745 J Z	5.61 U	5.27 U B
2,3,7,8-TCDF	ng/kg	0.0627 J Z	0.347 J Z	1.12 U	1.11 U	0.155 J Z	1.12 U	1.05 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.70 U B	5.61 U B, Z	5.60 U B	5.53 U B	5.39 U B, Z	5.61 U B	5.27 U B
2,3,4,7,8-PeCDF	ng/kg	5.70 U B	5.61 U B, Z	5.60 U B	5.53 U B	5.39 U B, Z	5.61 U B	5.27 U B
1,2,3,7,8-PeCDF	ng/kg	5.70 U B	0.223 J Z	5.60 U B	5.53 U B	0.299 J Z	5.61 U B	5.27 U
1,2,3,6,7,8-HxCDF	ng/kg	5.70 U B	5.61 U B, Z	5.60 U B	5.53 U B	5.39 U B, Z	5.61 U B	5.27 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.70 U B	3.24 J Z	5.60 U B	5.53 U B	4.03 J Z	5.61 U B	5.27 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.70 U B	0.529 J Z	5.60 U B	5.53 U B	0.494 J Z	5.61 U B	5.27 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.70 U B	6.56	5.60 U B	5.53 U B	5.88	5.61 U B	5.27 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.70 U B	0.518 J Z	5.60 U B	5.53 U B	0.587 J Z	5.61 U B	5.27 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.70 U B	0.721 J Z	5.60 U B	5.53 U	0.442 J Z	5.61 U B	5.27 U B
Aroclor 1260	ug/kg	2.0 U	14	2.0 U	2.0 U	0.45 J Z	1.9 U	1.8 U
Aroclor 1254	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1268	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	3.8 U	19 U	3.8 U	3.8 U	3.6 U	3.7 U	3.5 U
Aroclor 1232	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.8 U	19 U	3.8 U	3.8 U	3.6 U	3.7 U	3.5 U
Aroclor 1248	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1016	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	2.0 U	9.8 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.8 U	19 U	3.8 U	3.8 U	3.6 U	3.7 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-048-SA5DN-SS-0.0-0.5	SL-048-SA5DN-SB-4.0-5.0	SL-048-SA5DN-SB-11.5-12.5	SL-049-SA5DN-SS-0.0-0.5	SL-049-SA5DN-SB-4.0-5.0	SL-049-SA5DN-SB-15.5-16.5	SL-050-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/10/2011	06/10/2011	05/20/2011
SDG		DX086	DX101	DX101	DX086	DX101	DX101	DX086
Start Depth		0	4	11.5	0	4	15.5	0
End Depth		0.5	5	12.5	0.5	5	16.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.164 J Z	1.16 U	1.11 U	1.09 U B, Z	1.18 U	1.13 U B	0.122 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.83	5.81 U B	5.56 U B	2.23 J Z	0.418 J Z	5.66 U B	5.08 J Z
OCDD	ng/kg	4330 J *#	7.46 J Z	11.1 U B	772	11.8 U B	8.45 J Z	1750
1,2,3,4,6,7,8-HpCDD	ng/kg	223	5.81 U B	5.56 U B	59.5	5.89 U B	5.66 U B	136
OCDF	ng/kg	112	11.6 U B	11.1 U B	9.69 J Z	11.8 U B	11.3 U B	30.8
1,2,3,4,7,8-HxCDD	ng/kg	2.68 J Z	0.0421 J Z	0.0208 J Z	0.724 J Z	0.0376 J Z	0.0260 J Z	2.21 J Z
1,2,3,7,8-PeCDD	ng/kg	1.38 J Z	5.81 U B	5.56 U B	0.478 J Z	5.89 U	5.66 U	1.33 J Z
2,3,7,8-TCDF	ng/kg	0.698 J Z	1.16 U	1.11 U	0.842 J Z	1.18 U	1.13 U	1.93 Z
1,2,3,4,7,8,9-HpCDF	ng/kg	1.98 J Z	5.81 U B	5.56 U B	0.408 J Z	5.89 U B	5.66 U B	1.29 J Z
2,3,4,7,8-PeCDF	ng/kg	1.02 J Z	5.81 U B	5.56 U B	0.801 J Z	5.89 U B	5.66 U B	2.08 J Z
1,2,3,7,8-PeCDF	ng/kg	1.35 J Z	5.81 U B	5.56 U	1.01 J Z	5.89 U B	5.66 U B	0.356 J Z
1,2,3,6,7,8-HxCDF	ng/kg	1.09 J Z	5.81 U B	5.56 U B	0.557 J Z	5.89 U B	5.66 U B	1.41 J Z
1,2,3,6,7,8-HxCDD	ng/kg	7.19	5.81 U B	5.56 U B	2.51 J Z	5.89 U B	5.66 U B	6.28
2,3,4,6,7,8-HxCDF	ng/kg	1.39 J Z	5.81 U B	5.56 U B	0.433 J Z	5.89 U B	5.66 U B	1.17 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	25.5	5.81 U B	5.56 U B	4.08 J Z	5.89 U B	5.66 U B	11.1
1,2,3,4,7,8-HxCDF	ng/kg	1.75 J Z	5.81 U B	5.56 U B	0.759 J Z	5.89 U B	5.66 U B	2.20 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.714 J Z	5.81 U B	5.56 U B	1.29 J Z	0.517 J Z	5.66 U B	1.03 J Z
Aroclor 1260	ug/kg	8.4	2.0 U	1.9 U	2.5	1.7 J Z	1.9 U	9.8
Aroclor 1254	ug/kg	3.8 U	2.0 U	1.9 U	3.5	2.0 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	3.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	3.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	4.9 J Z	3.8 U	3.7 U	5.3	1.6 J Z	3.8 U	3.5 J Z, C
Aroclor 1232	ug/kg	3.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	7.3 U	3.8 U	3.7 U	3.6 U	3.9 U	3.8 U	3.6 UJ C
Aroclor 1248	ug/kg	3.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	3.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	3.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	3.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	7.3 U	3.8 U	3.7 U	3.6 U	3.9 U	3.8 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-050-SA5DN-SB-4.0-5.0	SL-050-SA5DN-SB-11.2-12.5	SL-051-SA5DN-SS-0.0-0.5	SL-051-SA5DN-SB-4.0-5.0	SL-051-SA5DN-SB-14.0-15.0	SL-052-SA5DN-SS-0.0-0.5	SL-052-SA5DN-SB-4.0-5.0
Sample Date		06/09/2011	06/09/2011	05/20/2011	06/08/2011	06/08/2011	05/23/2011	06/03/2011
SDG		DX101	DX101	DX086	DX100	DX100	DX087	DX098
Start Depth		4	11.2	0	4	14	0	4
End Depth		5	12.5	0.5	5	15	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U	1.11 U	1.07 U	1.13 U B	1.10 U B	1.15 U	1.08 U
1,2,3,7,8,9-HxCDD	ng/kg	5.66 U B	5.55 U B	1.45 J Z	5.65 U B	5.48 U B	0.555 J Z	0.341 J Z
OCDD	ng/kg	5.42 J Z	11.1 U B	607	11.3 U B	11.0 U B	115	10.8 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.66 U B	5.55 U B	55.1	5.65 U B	5.48 U B	9.9	5.38 U B
OCDF	ng/kg	11.3 U B	11.1 U B	5.76 J Z	11.3 U B	11.0 U B	11.5 U B, Z	10.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0409 J Z	0.0254 J Z	0.383 J Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U
1,2,3,7,8-PeCDD	ng/kg	5.66 U B	5.55 U	0.316 J Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U
2,3,7,8-TCDF	ng/kg	1.13 U	1.11 U	0.376 J Z	0.0204 J Z	0.0307 J Z	1.15 U B, Z	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.66 U B	5.55 U B	5.36 U B, Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U
2,3,4,7,8-PeCDF	ng/kg	5.66 U B	5.55 U B	0.529 J Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U B
1,2,3,7,8-PeCDF	ng/kg	5.66 U B	5.55 U B	5.36 U B, Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.66 U B	5.55 U B	0.399 J Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.66 U B	5.55 U B	1.74 J Z	5.65 U B	5.48 U B	0.481 J Z	5.38 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.66 U B	5.55 U B	0.305 J Z	5.65 U	5.48 U B	5.76 U B, Z	5.38 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.66 U B	5.55 U B	3.15 J Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.66 U B	5.55 U B	0.470 J Z	5.65 U B	5.48 U B	5.76 U B, Z	5.38 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.66 U B	5.55 U	0.959 J Z	0.173 J Z	5.48 U B	5.76 U B, Z	0.352 J Z
Aroclor 1260	ug/kg	1.9 U	1.9 U	1.6 J Z, *#	1.9 U	1.9 U	1.4 J Z	0.57 J Z, C
Aroclor 1254	ug/kg	1.9 U	1.9 U	3.0 J *#	1.9 U	1.9 U	2.0 U	1.9 UJ C
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.8 U	3.7 U	1.4 J Z, C	3.7 U	3.7 U	3.4 J Z	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.7 U	3.6 UJ C	3.7 U	3.7 U	3.8 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 UJ C
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 UJ C
Aroclor 5432	ug/kg	3.8 U	3.7 U	3.6 U	3.7 UJ C	3.7 UJ C	3.8 U	3.7 UJ C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-052-SA5DN-SB-9.0-10.0	SL-053-SA5DN-SS-0.0-0.5	SL-053-SA5DN-SB-4.0-5.0	SL-053-SA5DN-SB-11.5-12.5	SL-054-SA5DN-SS-0.0-0.5	SL-054-SA5DN-SB-4.0-5.0	SL-054-SA5DN-SB-9.0-10.0
Sample Date		06/03/2011	05/23/2011	06/06/2011	06/06/2011	05/18/2011	06/13/2011	06/13/2011
SDG		DX098	DX087	DX099	DX099	DX084	DX102	DX102
Start Depth		9	0	4	11.5	0	4	9
End Depth		10	0.5	5	12.5	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.11 U	0.130 J Z	1.15 U	1.08 U	1.10 U	1.21 U	1.18 U
1,2,3,7,8,9-HxCDD	ng/kg	5.53 U B	1.79 J Z	5.77 U B	5.42 U B	0.871 J Z	6.05 U B	5.91 U B
OCDD	ng/kg	11.1 U B	358	11.5 U B	10.8 U B	630	45.5	7.71 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.53 U B	27.4	5.77 U B	5.42 U B	37.8	6.05 U B	5.91 U B
OCDF	ng/kg	11.1 U B	5.12 J Z	11.5 U B	10.8 U B	7.93 J Z	12.1 U B	11.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.53 U	0.379 J Z	5.77 U	5.42 U	0.292 J Z	6.05 U B	5.91 U B
1,2,3,7,8-PeCDD	ng/kg	5.53 U	0.440 J Z	5.77 U	0.0176 J Z	5.50 U B, Z	6.05 U B	5.91 U
2,3,7,8-TCDF	ng/kg	1.11 U	0.404 J Z	1.15 U	1.08 U	0.276 J Z	1.21 U	1.18 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.53 U B	5.58 U B, Z	5.77 U B	5.42 U B	5.50 U B, Z	6.05 U B	5.91 U B
2,3,4,7,8-PeCDF	ng/kg	5.53 U B	0.613 J Z	5.77 U B	5.42 U B	0.345 J Z	6.05 U B	5.91 U B
1,2,3,7,8-PeCDF	ng/kg	5.53 U	0.870 J Z	5.77 U B	5.42 U B	5.50 U B, Z	6.05 U B	5.91 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U B	5.58 U B, Z	5.77 U B	5.42 U B	5.50 U B, Z	6.05 U B	5.91 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.53 U	1.60 J Z	5.77 U B	5.42 U B	1.10 J Z	6.05 U B	5.91 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U B	5.58 U B, Z	5.77 U B	5.42 U B	5.50 U B, Z	6.05 U B	5.91 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.53 U B	2.38 J Z	5.77 U B	5.42 U B	2.59 J Z	6.05 U B	5.91 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U B	0.623 J Z	5.77 U B	5.42 U B	0.859 J Z	6.05 U B	5.91 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.53 U	1.63 J Z	5.77 U B	5.42 U B	0.556 J Z	6.05 U B	5.91 U B
Aroclor 1260	ug/kg	2.0 UJ C	1.9 U	2.0 U	1.9 U	12	2.1 U	0.85 J Z
Aroclor 1254	ug/kg	2.0 UJ C	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.7 U	3.9 UJ E	3.7 UJ E	3.2 J Z	4.0 U	3.9 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.7 U	3.9 UJ E	3.7 UJ E	3.7 U	4.0 U	3.9 U
Aroclor 1248	ug/kg	2.0 UJ C	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 1242	ug/kg	2.0 UJ C	1.9 U	2.0 U	1.9 U	1.9 U	2.1 U	2.0 U
Aroclor 5432	ug/kg	3.8 UJ C	3.7 U	3.9 UJ E	3.7 UJ E	3.7 U	4.0 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-055-SA5DN-SS-0.0-0.5	SL-055-SA5DN-SB-4.0-5.0	SL-055-SA5DN-SB-9.0-10.0	SL-056-SA5DN-SS-0.0-0.5	SL-056-SA5DN-SB-4.0-5.0	SL-056-SA5DN-SB-9.0-10.0	SL-057-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	06/15/2011	06/15/2011	05/18/2011	06/15/2011	06/15/2011	05/24/2011
SDG		DX084	DX103	DX103	DX084	DX103	DX103	DX090
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U	0.0518 J Z	0.0994 J Z	0.0269 J Z	0.0908 J Z	0.0380 J Z	1.13 UJ FD
1,2,3,7,8,9-HxCDD	ng/kg	0.733 J Z	5.82 U B	5.57 U B	5.62 U B, Z	5.82 U B	5.66 U B	0.404 J Z
OCDD	ng/kg	271	4.66 J Z	11.4	39.9	11.6 U B	11.3 U B	44.8
1,2,3,4,6,7,8-HpCDD	ng/kg	25	5.82 U B	5.57 U B	4.70 J Z	5.82 U B	5.66 U B	4.90 J Z
OCDF	ng/kg	5.20 J Z	11.6 U B	11.1 U B	11.2 U B, Z	11.6 U B	11.3 U B	11.3 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.69 U B, Z	0.0682 J Z	0.165 J Z	5.62 U B, Z	0.157 J Z	0.102 J Z	5.67 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.69 U B, Z	5.82 U B	0.330 J Z	5.62 U B, Z	0.373 J Z	5.66 U B	0.126 J FD, Z
2,3,7,8-TCDF	ng/kg	1.14 U	0.0407 J Z	0.0549 J Z	1.12 U B, Z	1.16 U	0.0625 J Z	0.0807 J FD, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.69 U B, Z	5.82 U B	5.57 U B	5.62 U B, Z	5.82 U B	5.66 U B	5.67 U B, Z
2,3,4,7,8-PeCDF	ng/kg	0.806 J Z	5.82 U B	5.57 U B	5.62 U B, Z	5.82 U B	5.66 U B	5.67 U B, Z
1,2,3,7,8-PeCDF	ng/kg	0.390 J Z	0.137 J Z	0.335 J Z	5.62 U B, Z	0.340 J Z	0.234 J Z	0.152 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.900 J Z	5.82 U B	5.57 U B	5.62 U B, Z	5.82 U B	5.66 U B	5.67 UJ B, FD, Z
1,2,3,6,7,8-HxCDD	ng/kg	1.46 J Z	5.82 U B	5.57 U B	5.62 U B, Z	5.82 U B	5.66 U B	0.382 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.438 J Z	5.82 U B	5.57 U B	5.62 U B, Z	5.82 U B	5.66 U B	5.67 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	4.01 J Z	5.82 U B	5.57 U B	0.856 J Z	5.82 U B	5.66 U B	0.876 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.874 J Z	5.82 U B	5.57 U B	5.62 U B, Z	5.82 U B	5.66 U B	0.333 J FD, Z
1,2,3,7,8,9-HxCDF	ng/kg	0.400 J Z	0.120 J Z	0.173 J Z	5.62 U B, Z	0.193 J Z	0.124 J Z	5.67 U B, Z
Aroclor 1260	ug/kg	16	2.0 U	1.9 U	1.7 J Z	2.0 U	1.9 U	1.3 J FD, Z
Aroclor 1254	ug/kg	55	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 1268	ug/kg	9.7 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	9.7 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	43	3.9 U	3.7 U	1.6 J Z	3.9 U	3.8 U	1.6 J FD, Z
Aroclor 1232	ug/kg	9.7 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	19 U	3.9 U	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	9.7 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	9.7 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	9.7 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	9.7 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	19 U	3.9 U	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-057-SA5DN-SB-4.0-5.0	SL-057-SA5DN-SB-9.0-10.0	SL-058-SA5DN-SS-0.0-0.5	SL-058-SA5DN-SB-4.0-5.0	SL-058-SA5DN-SB-9.0-10.0	SL-059-SA5DN-SS-0.0-0.5	SL-059-SA5DN-SB-4.0-5.0
Sample Date		06/16/2011	06/16/2011	05/18/2011	06/16/2011	06/16/2011	05/18/2011	06/16/2011
SDG		DX102	DX102	DX084	DX102	DX102	DX084	DX103
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.15 U B	1.13 U	0.0577 J Z	1.14 U	1.14 U	1.11 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.74 U B	5.66 U B	1.26 J Z	5.72 U B	5.72 U B	0.385 J Z	5.58 U B
OCDD	ng/kg	11.5 U B	11.3 U B	432	11.4 U B	6.53 J Z	55.5	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.74 U B	5.66 U B	28.9	5.72 U B	5.72 U B	4.69 J Z	5.58 U B
OCDF	ng/kg	11.5 U B	11.3 U B	11.7	11.4 U B	11.4 U B	2.48 J Z	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.74 U B	5.66 U B	0.324 J Z	5.72 U	5.72 U B	5.57 U B, Z	5.58 U
1,2,3,7,8-PeCDD	ng/kg	5.74 U B	5.66 U B	5.66 U B, Z	5.72 U	5.72 U B	5.57 U	5.58 U
2,3,7,8-TCDF	ng/kg	1.15 U B	1.13 U	0.526 J Z	1.14 U	1.14 U	1.11 U	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.74 U B	5.66 U B	5.66 U B, Z	5.72 U B	5.72 U B	5.57 U B, Z	5.58 U B
2,3,4,7,8-PeCDF	ng/kg	5.74 U B	5.66 U B	0.819 J Z	5.72 U B	5.72 U B	5.57 U B, Z	5.58 U B
1,2,3,7,8-PeCDF	ng/kg	5.74 U B	5.66 U B	0.390 J Z	5.72 U B	5.72 U B	5.57 U B, Z	5.58 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.74 U B	5.66 U B	5.66 U B, Z	5.72 U B	5.72 U B	5.57 U B, Z	5.58 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.74 U B	5.66 U B	1.36 J Z	5.72 U B	5.72 U B	0.353 J Z	5.58 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.74 U B	5.66 U B	0.429 J Z	5.72 U B	5.72 U B	5.57 U B, Z	5.58 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.74 U B	5.66 U B	4.06 J Z	5.72 U B	5.72 U B	5.57 U B, Z	5.58 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.74 U B	5.66 U B	1.09 J Z	5.72 U B	5.72 U B	5.57 U B, Z	5.58 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.74 U B	5.66 U B	1.01 J Z	5.72 U	5.72 U B	0.499 J Z	0.162 J Z
Aroclor 1260	ug/kg	2.0 U	1.9 U	3.9	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1254	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.7 U	8.4	3.9 U	3.8 U	3.7 U	3.8 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.7 U	3.8 U	3.9 U	3.8 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.7 U	3.8 U	3.9 U	3.8 U	3.7 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-059-SA5DN-SB-9.0-10.0	SL-060-SA5DN-SS-0.0-0.5	SL-060-SA5DN-SB-4.0-5.0	SL-060-SA5DN-SB-7.0-8.0	SL-061-SA5DN-SB-4.0-5.0	SL-061-SA5DN-SB-9.0-10.0	SL-062-SA5DN-SB-4.0-5.0
Sample Date		06/16/2011	05/25/2011	08/05/2011	08/05/2011	06/16/2011	06/16/2011	06/16/2011
SDG		DX103	DX090	DX125	DX125	DX103	DX103	DX103
Start Depth		9	0	4	7	4	9	4
End Depth		10	0.5	5	8	5	10	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U	0.0919 J Z	1.01 U	1.14 U	1.14 U	1.13 U	0.0749 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.68 U B	1.17 J Z	0.112 J Z	0.0781 J Z	5.72 U B	5.65 U B	5.87 U B
OCDD	ng/kg	11.4 U B	375	9.27 J Z	4.62 J Z	11.4 U B	11.3 U B	17.5
1,2,3,4,6,7,8-HpCDD	ng/kg	5.68 U B	23.4	5.03 U B	5.72 U B	5.72 U B	5.65 U B	5.87 U B
OCDF	ng/kg	11.4 U B	7.68 J Z	10.1 U B	11.4 U B	11.4 U B	11.3 U B	11.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0298 J Z	0.428 J Z	5.03 U B	5.72 U	5.72 U	0.0538 J Z	0.0906 J Z
1,2,3,7,8-PeCDD	ng/kg	5.68 U	0.375 J Z	5.03 U	5.72 U	5.72 U B	5.65 U B	5.87 U B
2,3,7,8-TCDF	ng/kg	1.14 U	0.266 J Z	1.01 U	1.14 U	0.0295 J Z	1.13 U	0.0274 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.68 U B	0.376 J Z	5.03 U B	5.72 U B	5.72 U B	5.65 U B	5.87 U B
2,3,4,7,8-PeCDF	ng/kg	5.68 U B	0.643 J Z	5.03 U B	5.72 U B	5.72 U B	5.65 U B	5.87 U B
1,2,3,7,8-PeCDF	ng/kg	5.68 U B	0.297 J Z	0.0977 J Z	5.72 U	5.72 U B	5.65 U B	0.162 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.68 U B	0.361 J Z	0.108 J Z	0.0519 J Z	5.72 U B	5.65 U B	5.87 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.68 U B	1.29 J Z	0.131 J Z	5.72 U	5.72 U B	5.65 U B	5.87 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.68 U B	0.477 J Z	0.103 J Z	5.72 U	5.72 U B	5.65 U B	5.87 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.68 U B	2.75 J Z	5.03 U B	5.72 U B	5.72 U B	5.65 U B	5.87 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.68 U	0.824 J Z	0.0990 J Z	5.72 U	5.72 U B	5.65 U B	5.87 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.0569 J Z	0.836 J Z	5.03 U B	5.72 U B	0.388 J Z	0.0810 J Z	0.176 J Z
Aroclor 1260	ug/kg	2.0 U	4.5	1.8 U B	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1254	ug/kg	2.0 U	3.7 U	0.95 J Z	13	2.0 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	3.7 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	3.7 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.9 U	7.1 U	3.4 U	3.8 U	3.8 U	3.8 U	3.9 U
Aroclor 1232	ug/kg	2.0 U	3.7 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.9 U	7.1 U	3.4 U	3.8 U	3.8 U	3.8 U	3.9 U
Aroclor 1248	ug/kg	2.0 U	3.7 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	3.7 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	3.7 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	3.7 U	1.8 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.9 U	7.1 U	3.4 U	3.8 U	3.8 U	3.8 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-064-SA5DN-SS-0.0-0.5	SL-064-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SS-0.0-0.5	SL-065-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SB-7.0-8.0	SL-066-SA5DN-SS-0.0-0.5	SL-066-SA5DN-SB-4.0-5.0
Sample Date		05/18/2011	05/20/2011	05/18/2011	05/20/2011	05/20/2011	05/17/2011	05/19/2011
SDG		DX084	DX086	DX084	DX086	DX086	DX082	DX083
Start Depth		0	4	0	4	7	0	4
End Depth		0.5	5	0.5	5	8	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.48	1.15 U B, Z	0.375 J Z	1.12 U	1.10 U	0.290 J Z	1.12 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	15.8	5.74 U B, Z	11.5	5.62 U B, Z	5.52 U B, Z	5.77	5.58 U B, Z
OCDD	ng/kg	7850 J *#	4.59 J Z	5070 J *#	11.2 U B, Z	11.0 U B, Z	1790	11.2 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	501	5.74 U B, Z	364	5.62 U B, Z	5.52 U B, Z	156	5.58 U B, Z
OCDF	ng/kg	124	11.5 U B, Z	106	11.2 U B, Z	11.0 U B, Z	47.8	11.2 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	7.08	5.74 U B, Z	5.19 J Z	5.62 U	5.52 U	2.01 J Z	5.58 U B, Z
1,2,3,7,8-PeCDD	ng/kg	4.20 J Z	5.74 U B, Z	3.09 J Z	5.62 U B, Z	5.52 U	1.24 J Z	5.58 U B, Z
2,3,7,8-TCDF	ng/kg	1.33 Z	0.0161 J Z	0.623 J Z	0.0201 J Z	1.10 U	0.624 J Z	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	2.93 J Z	5.74 U B, Z	4.05 J Z	5.62 U	5.52 U B, Z	2.32 J Z	5.58 U B, Z
2,3,4,7,8-PeCDF	ng/kg	2.24 J Z	5.74 U B, Z	1.04 J Z	5.62 U B, Z	5.52 U B, Z	1.13 J Z	5.58 U B, Z
1,2,3,7,8-PeCDF	ng/kg	1.07 J Z	5.74 U B, Z	0.603 J Z	5.62 U B, Z	5.52 U B, Z	0.553 J Z	5.58 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	2.17 J Z	5.74 U B, Z	2.78 J Z	5.62 U	5.52 U B, Z	1.72 J Z	5.58 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	19.3	5.74 U B, Z	15	5.62 U B, Z	5.52 U B, Z	7.72	5.58 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	2.23 J Z	5.74 U B, Z	3.11 J Z	5.62 U	5.52 U	1.74 J Z	5.58 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	38	5.74 U B, Z	44.8	5.62 U B, Z	5.52 U B, Z	22.9	5.58 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	3.60 J Z	5.74 U B, Z	2.49 J Z	5.62 U B, Z	5.52 U B, Z	1.44 J Z	5.58 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	1.68 J Z	5.74 U B, Z	2.03 J Z	5.62 U B, Z	5.52 U B, Z	2.39 J Z	5.58 U B, Z
Aroclor 1260	ug/kg	6.1 J Z	2.0 U	4.4 J Z	1.9 U	1.9 U	3	1.9 U
Aroclor 1254	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	22	3.8 UJ C	18 J Z	3.7 UJ C	3.6 UJ C	6.4	3.8 U
Aroclor 1232	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	19 U	3.8 UJ C	19 U	3.7 UJ C	3.6 UJ C	3.6 U	3.8 U
Aroclor 1248	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	9.8 U	2.0 U	9.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	19 U	3.8 U	19 U	3.7 U	3.6 U	3.6 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-066-SA5DN-SB-9.0-10.0	SL-067-SA5DN-SS-0.0-0.5	SL-067-SA5DN-SB-4.0-5.0	SL-067-SA5DN-SB-9.0-10.0	SL-068-SA5DN-SB-4.0-5.0	SL-068-SA5DN-SB-9.0-10.0	SL-069-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/17/2011	05/18/2011
SDG		DX083	DX082	DX083	DX083	DX083	DX083	DX085
Start Depth		9	0	4	9	4	9	4
End Depth		10	0.5	5	10	5	10	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.17 U	0.296 J Z	1.14 U B, Z	1.16 U B, Z	1.11 U B, Z	1.13 U B, Z	1.15 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.84 U B, Z	4.37 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
OCDD	ng/kg	11.7 U B, Z	2370	5.12 J Z	26.7	11.1 U B, Z	11.3 U B, Z	11.5 U B, Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.84 U B, Z	145	5.68 U B, Z	3.45 J Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
OCDF	ng/kg	11.7 U B, Z	45.3	11.4 U B, Z	11.6 U B, Z	11.1 U B, Z	11.3 U B, Z	11.5 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.84 U B, Z	1.72 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.84 U B, Z	1.03 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
2,3,7,8-TCDF	ng/kg	1.17 U	0.758 J Z	1.14 U	1.16 U B, Z	1.11 U B, Z	1.13 U B, Z	1.15 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.84 U B, Z	1.79 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.84 U B, Z	0.997 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.84 U B, Z	0.726 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.84 U B, Z	1.28 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.84 U B, Z	5.73	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.84 U B, Z	1.38 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.84 U B, Z	21.6	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.84 U B, Z	2.08 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.84 U B, Z	1.76 J Z	5.68 U B, Z	5.78 U B, Z	5.55 U B, Z	5.64 U B, Z	5.77 U B, Z
Aroclor 1260	ug/kg	2.0 U	3.1	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1254	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.9 U	8.1	3.8 U	3.9 U	3.7 U	3.8 U	3.8 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.9 U	3.6 U	3.8 U	3.9 U	3.7 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.9 U	3.6 U	3.8 U	3.9 U	3.7 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-069-SA5DN-SB-9.0-10.0	SL-070-SA5DN-SB-4.0-5.0	SL-070-SA5DN-SB-9.0-10.0	SL-071-SA5DN-SS-0.0-0.5	SL-071-SA5DN-SB-4.0-5.0	SL-071-SA5DN-SB-9.0-10.0	SL-072-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	05/18/2011	05/18/2011	05/27/2011	08/10/2011	08/10/2011	05/17/2011
SDG		DX085	DX085	DX085	DX094	DX127	DX127	DX082
Start Depth		9	4	9	0	4	9	0
End Depth		10	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 U B, Z	1.13 U	1.15 U B, Z	1.08 U B	1.14 U	1.11 U	0.242 J FD, Z
1,2,3,7,8,9-HxCDD	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	1.74 J Z	5.71 U	5.53 U	3.36 J Z
OCDD	ng/kg	11.4 U B, Z	11.3 U B, Z	11.5 U B, Z	1250	12.5	2.98 J Z	1480
1,2,3,4,6,7,8-HpCDD	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	79.2	1.32 J Z	5.53 U B	112 J Q
OCDF	ng/kg	11.4 U B, Z	11.3 U B, Z	11.5 U B, Z	15.8	11.4 U B	11.1 U B	26.9
1,2,3,4,7,8-HxCDD	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	1.06 J Z	5.71 U	5.53 U B	2.42 J Z
1,2,3,7,8-PeCDD	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	0.561 J Z	5.71 U	5.53 U	1.23 J Z
2,3,7,8-TCDF	ng/kg	1.14 U B, Z	1.13 U	1.15 U	0.397 J Z	1.14 U	1.11 U	0.483 J FD, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	5.40 U B	5.71 U B	5.53 U	1.10 J Z
2,3,4,7,8-PeCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	0.743 J Z	5.71 U B	5.53 U B	1.11 J Z
1,2,3,7,8-PeCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	2.11 J Z	5.71 U	0.0528 J Z	0.662 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	0.550 J Z	5.71 U	5.53 U B	1.39 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	2.24 J Z	0.0705 J Z	5.53 U	4.53 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	0.517 J Z	5.71 U	0.0557 J Z	1.02 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	10.5	5.71 U	5.53 U	19
1,2,3,4,7,8-HxCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	0.720 J Z	5.71 U B	5.53 U	1.52 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.71 U B, Z	5.65 U B, Z	5.74 U B, Z	5.40 U B	5.71 U	5.53 U	5.51 U B, Z
Aroclor 1260	ug/kg	1.9 U	2.0 U	2.0 U	2.3	2.0 U	2.0 U	4.7 J FD
Aroclor 1254	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	3.8 U	1.6 J Z	3.8 U	3.8 U	1.8 J FD, Z
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	3.8 U	3.6 U	3.8 U	3.8 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	3.8 U	3.6 U	3.8 U	3.8 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-072-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-9.0-10.0	SL-074-SA5DN-SS-0.0-0.5	SL-074-SA5DN-SB-4.0-5.0	SL-074-SA5DN-SB-9.0-10.0	SL-075-SA5DN-SS-0.0-0.5
Sample Date		08/10/2011	05/17/2011	05/17/2011	05/17/2011	05/18/2011	05/18/2011	05/17/2011
SDG		DX127	DX083	DX083	DX082	DX085	DX085	DX082
Start Depth		4	4	9	0	4	9	0
End Depth		5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.19 U	1.13 U B, Z	1.10 U B, Z	0.221 J Z	1.12 U	1.13 U B, Z	0.0396 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.477 J Z	5.64 U B, Z	5.51 U B, Z	2.92 J Z	5.59 U B, Z	5.67 U B, Z	1.96 J Z
OCDD	ng/kg	338	11.3 U B, Z	11.0 U B, Z	1510	11.2 U B, Z	11.3 U B, Z	818
1,2,3,4,6,7,8-HpCDD	ng/kg	29.5	5.64 U B, Z	5.51 U B, Z	91.9	5.59 U B, Z	5.67 U B, Z	42.7
OCDF	ng/kg	5.56 J Z	11.3 U B, Z	11.0 U B, Z	76.9	11.2 U B, Z	11.3 U B, Z	19.8
1,2,3,4,7,8-HxCDD	ng/kg	5.93 U	5.64 U B, Z	5.51 U B, Z	1.04 J Z	5.59 U B, Z	5.67 U B, Z	0.336 J Z
1,2,3,7,8-PeCDD	ng/kg	5.93 U	5.64 U B, Z	5.51 U B, Z	0.911 J Z	5.59 U B, Z	5.67 U B, Z	5.95 U B, Z
2,3,7,8-TCDF	ng/kg	1.19 U	1.13 U B, Z	1.10 U	0.362 J Z	1.12 U B, Z	1.13 U B, Z	0.221 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.93 U B	5.64 U B, Z	5.51 U B, Z	1.67 J Z	5.59 U B, Z	5.67 U B, Z	5.95 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.93 U B	5.64 U B, Z	5.51 U B, Z	0.971 J Z	5.59 U B, Z	5.67 U B, Z	0.887 J Z
1,2,3,7,8-PeCDF	ng/kg	0.0947 J Z	5.64 U B, Z	5.51 U B, Z	0.886 J Z	5.59 U B, Z	5.67 U B, Z	5.95 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.93 U B	5.64 U B, Z	5.51 U B, Z	1.24 J Z	5.59 U B, Z	5.67 U B, Z	0.797 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.950 J Z	5.64 U B, Z	5.51 U B, Z	4.05 J Z	5.59 U B, Z	5.67 U B, Z	2.25 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.220 J Z	5.64 U B, Z	5.51 U B, Z	1.37 J Z	5.59 U B, Z	5.67 U B, Z	0.598 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	2.30 J Z	5.64 U B, Z	5.51 U B, Z	28.3	5.59 U B, Z	5.67 U B, Z	9.18
1,2,3,4,7,8-HxCDF	ng/kg	5.93 U	5.64 U B, Z	5.51 U B, Z	1.62 J Z	5.59 U B, Z	5.67 U B, Z	1.14 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.93 U B	5.64 U B, Z	5.51 U B, Z	2.14 J Z	5.59 U B, Z	5.67 U B, Z	1.52 J Z
Aroclor 1260	ug/kg	1.0 J S, Z	1.9 U	1.9 U	1.8 J Z	1.9 U	2.0 U	1.4 J Z
Aroclor 1254	ug/kg	1.9 J S, Z	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 5460	ug/kg	3.9 U	3.7 U	3.7 U	4.9	3.8 U	3.8 U	4.0 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 5442	ug/kg	3.9 U	3.7 U	3.7 U	3.6 U	3.8 U	3.8 U	4.0 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.1 U
Aroclor 5432	ug/kg	3.9 U	3.7 U	3.7 U	3.6 U	3.8 U	3.8 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-075-SA5DN-SB-4.0-5.0	SL-075-SA5DN-SB-9.0-10.0	SL-076-SA5DN-SS-0.0-0.5	SL-076-SA5DN-SB-4.0-5.0	SL-076-SA5DN-SB-9.0-10.0	SL-077-SA5DN-SB-4.0-5.0	SL-077-SA5DN-SB-9.0-10.0
Sample Date		05/23/2011	05/23/2011	05/17/2011	05/18/2011	05/18/2011	06/27/2011	06/27/2011
SDG		DX087	DX087	DX082	DX085	DX085	DX106	DX106
Start Depth		4	9	0	4	9	4	9
End Depth		5	10	0.5	5	10	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.11 U	0.0743 J Z	0.258 J Z	1.09 U B, Z	1.13 U B, Z	0.0530 J Z	1.19 U
1,2,3,7,8,9-HxCDD	ng/kg	5.53 U B, Z	5.68 U B, Z	4.12 J Z	5.45 U B, Z	5.65 U B, Z	5.86 U B	5.97 U B
OCDD	ng/kg	11.1 U B, Z	13.4	2820	78.7 J FD	161	17.3	10.7 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.53 U B, Z	5.68 U B, Z	158	5.12 J FD, Z	6.91	5.86 U B	5.97 U B
OCDF	ng/kg	11.1 U B, Z	11.4 U B, Z	44.7	10.9 UJ B, FD, Z	3.29 J Z	11.7 U B	11.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.53 U	5.68 U B, Z	1.66 J Z	5.45 U B, Z	5.65 U B, Z	5.86 U	5.97 U
1,2,3,7,8-PeCDD	ng/kg	5.53 U	5.68 U B, Z	0.953 J Z	5.45 UJ B, FD, Z	5.65 U B, Z	5.86 U	5.97 U B
2,3,7,8-TCDF	ng/kg	1.11 U	1.14 U B, Z	0.262 J Z	0.194 J FD, Z	1.13 U B, Z	0.0385 J Z	1.19 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	1.06 J Z	5.45 U B, Z	5.65 U B, Z	5.86 U B	5.97 U B
2,3,4,7,8-PeCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	5.38 U B, Z	5.45 UJ B, FD, Z	5.65 U B, Z	5.86 U B	5.97 U B
1,2,3,7,8-PeCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	5.38 U B, Z	0.571 J FD, Z	5.65 U B, Z	5.86 U B	5.97 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	0.682 J Z	5.45 UJ B, FD, Z	5.65 U B, Z	5.86 U B	5.97 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.53 U B, Z	5.68 U B, Z	5.23 J Z	5.45 UJ B, FD, Z	0.598 J Z	0.103 J Z	5.97 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	0.753 J Z	5.45 U B, Z	5.65 U B, Z	5.86 U B	5.97 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	15.1	5.45 UJ B, FD, Z	1.14 J Z	5.86 U B	5.97 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	1.11 J Z	5.45 UJ B, FD, Z	5.65 U B, Z	5.86 U B	5.97 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.53 U B, Z	5.68 U B, Z	1.23 J Z	5.45 UJ B, FD, Z	5.65 U B, Z	5.86 U B	5.97 U B
Aroclor 1260	ug/kg	2.0 U	1.9 U	2.5	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1254	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	0.59 J Z	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	6.7	3.6 U	3.8 U	3.9 U	3.9 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	3.6 U	3.6 U	3.8 U	3.9 U	3.9 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	3.6 U	3.6 U	3.8 U	3.9 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-078-SA5DN-SB-4.0-5.0	SL-078-SA5DN-SB-9.0-10.0	SL-079-SA5DN-SS-0.0-0.5	SL-079-SA5DN-SB-4.0-5.0	SL-079-SA5DN-SB-9.0-10.0	SL-080-SA5DN-SS-0.0-0.5	SL-080-SA5DN-SB-4.0-5.0
Sample Date		06/27/2011	06/27/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/19/2011
SDG		DX106	DX106	DX082	DX083	DX083	DX082	DX083
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.15 U	0.0182 J Z	0.188 J Z	1.12 U	1.19 U	0.261 J Z	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	5.74 U B	5.54 U B	4.37 J Z	5.61 U B, Z	5.95 U B, Z	4.94 J Z	5.57 U B, Z
OCDD	ng/kg	9.18 J Z	75.5	2610	17.2	6.37 J Z	2560	6.59 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.74 U B	4.17 J Z	150	5.61 U B, Z	5.95 U B, Z	144	5.57 U B, Z
OCDF	ng/kg	11.5 U B	6.95 J Z	67.1	11.2 U B, Z	11.9 U B, Z	48.8	11.1 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.74 U	0.0378 J Z	1.77 J Z	5.61 U B, Z	5.95 U B, Z	2.02 J Z	5.57 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.74 U	5.54 U B	0.992 J Z	5.61 U B, Z	5.95 U B, Z	1.31 J Z	5.57 U B, Z
2,3,7,8-TCDF	ng/kg	1.15 U	1.11 U	0.325 J Z	1.12 U	1.19 U B, Z	0.188 J Z	1.11 U B, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.74 U B	0.175 J Z	1.65 J Z	5.61 U B, Z	5.95 U B, Z	1.23 J Z	5.57 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.74 U B	5.54 U B	5.51 U B, Z	5.61 U B, Z	5.95 U B, Z	5.51 U B, Z	5.57 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.74 U B	5.54 U B	0.433 J Z	5.61 U B, Z	5.95 U B, Z	0.940 J Z	5.57 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.74 U B	5.54 U B	1.47 J Z	5.61 U B, Z	5.95 U B, Z	0.819 J Z	5.57 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.74 U	0.107 J Z	5.45 J Z	5.61 U B, Z	5.95 U B, Z	5.41 J Z	5.57 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.74 U B	5.54 U B	1.16 J Z	5.61 U B, Z	5.95 U B, Z	0.876 J Z	5.57 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.74 U B	1.15 J Z	24.8	5.61 U B, Z	5.95 U B, Z	18.5	5.57 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.74 U B	5.54 U B	1.83 J Z	5.61 U B, Z	5.95 U B, Z	1.40 J Z	5.57 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.74 U B	5.54 U B	1.55 J Z	5.61 U B, Z	5.95 U B, Z	1.46 J Z	5.57 U B, Z
Aroclor 1260	ug/kg	2.0 U	1.9 U	1.7 J Z	1.9 U	2.1 U	2.2	1.9 U
Aroclor 1254	ug/kg	2.0 U	1.9 U	1.9 U	0.84 J Z	2.1 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	4.8	3.7 U	4.0 U	5.5	3.7 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	3.6 U	3.7 U	4.0 U	3.7 U	3.7 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	3.6 U	3.7 U	4.0 U	3.7 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-080-SA5DN-SB-8.0-9.0	SL-081-SA5DN-SS-0.0-0.5	SL-081-SA5DN-SB-4.0-5.0	SL-081-SA5DN-SB-9.0-10.0	SL-082-SA5DN-SS-0.0-0.5	SL-082-SA5DN-SB-4.0-5.0	SL-083-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	05/17/2011	05/23/2011	05/23/2011	05/17/2011	05/19/2011	05/17/2011
SDG		DX083	DX082	DX087	DX087	DX082	DX083	DX082
Start Depth		8	0	4	9	0	4	0
End Depth		9	0.5	5	10	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U	0.233 J Z	1.10 U	0.0346 J Z	0.143 J Z	1.08 U B, Z	0.360 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.44 U B, Z	2.53 J Z	5.51 U B, Z	5.44 U B, Z	4.20 J Z	5.38 U B, Z	7.47
OCDD	ng/kg	2.76 J Z	1310	5.37 J Z	8.17 J Z	1570	3.19 J Z	3670
1,2,3,4,6,7,8-HpCDD	ng/kg	5.44 U B, Z	77	5.51 U B, Z	5.44 U B, Z	113	5.38 U B, Z	196
OCDF	ng/kg	10.9 U B, Z	24.9	11.0 U B, Z	10.9 U B, Z	34.1	10.8 U B, Z	55.3
1,2,3,4,7,8-HxCDD	ng/kg	5.44 U B, Z	1.00 J Z	5.51 U B, Z	5.44 U B, Z	1.63 J Z	5.38 U B, Z	3.38 J Z
1,2,3,7,8-PeCDD	ng/kg	5.44 U B, Z	5.27 U B, Z	5.51 U B, Z	5.44 U B, Z	0.935 J Z	5.38 U	1.95 J Z
2,3,7,8-TCDF	ng/kg	1.09 U	1.05 U	1.10 U	1.09 U	0.306 J Z	1.08 U	0.261 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.44 U B, Z	0.761 J Z	5.51 U B, Z	5.44 U B, Z	5.51 U B, Z	5.38 U B, Z	1.03 J Z
2,3,4,7,8-PeCDF	ng/kg	5.44 U B, Z	5.27 U B, Z	5.51 U B, Z	5.44 U B, Z	5.51 U B, Z	5.38 U B, Z	0.560 J Z
1,2,3,7,8-PeCDF	ng/kg	5.44 U B, Z	5.27 U B, Z	5.51 U B, Z	5.44 U B, Z	5.51 U B, Z	5.38 U B, Z	0.359 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.44 U B, Z	0.610 J Z	5.51 U B, Z	5.44 U B, Z	0.565 J Z	5.38 U B, Z	0.660 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.44 U B, Z	3.03 J Z	5.51 U B, Z	5.44 U B, Z	4.18 J Z	5.38 U B, Z	7.77
2,3,4,6,7,8-HxCDF	ng/kg	5.44 U B, Z	0.663 J Z	5.51 U B, Z	5.44 U B, Z	0.556 J Z	5.38 U B, Z	0.781 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.44 U B, Z	10.8	5.51 U B, Z	5.44 U B, Z	11.5	5.38 U B, Z	17.2
1,2,3,4,7,8-HxCDF	ng/kg	5.44 U B, Z	0.900 J Z	5.51 U B, Z	5.44 U B, Z	1.07 J Z	5.38 U B, Z	1.10 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.44 U B, Z	1.04 J Z	5.51 U B, Z	5.44 U B, Z	1.16 J Z	5.38 U B, Z	1.07 J Z
Aroclor 1260	ug/kg	1.9 U	2.3	1.9 U	1.9 U	10	1.9 U	1.1 J Z
Aroclor 1254	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	0.42 J Z	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.6 U	6.4	3.6 U	3.6 U	12	3.6 U	6.5
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-083-SA5DN-SB-4.0-5.0	SL-084-SA5DN-SS-0.0-0.5	SL-084-SA5DN-SB-4.0-5.0	SL-085-SA5DN-SB-2.5-3.5	SL-086-SA5DN-SS-0.0-0.5	SL-086-SA5DN-SB-4.0-5.0	SL-087-SA5DN-SS-0.0-0.5
Sample Date		08/08/2011	05/17/2011	05/23/2011	06/27/2011	05/18/2011	05/20/2011	05/18/2011
SDG		DX126	DX082	DX087	DX106	DX084	DX086	DX084
Start Depth		4	0	4	2.5	0	4	0
End Depth		5	0.5	5	3.5	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.11 U	0.383 J Z	0.0287 J Z	1.14 U	0.364 J Z	1.12 U	0.486 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.231 J Z	6.17	5.48 U B, Z	5.71 U B	8.88	5.59 U B, Z	11.1
OCDD	ng/kg	53.3	2710	15.6	10.7 J Z	3310	12.7	5400 J *#
1,2,3,4,6,7,8-HpCDD	ng/kg	2.91 J Z	157	5.48 U B, Z	5.71 U B	188	5.59 U B, Z	296
OCDF	ng/kg	0.751 J Z	43.6	11.0 U B, Z	11.4 U B	32.6	11.2 U B, Z	71.3
1,2,3,4,7,8-HxCDD	ng/kg	0.0584 J Z	2.68 J Z	5.48 U B, Z	0.0217 J Z	4.10 J Z	5.59 U B, Z	5.09 J Z
1,2,3,7,8-PeCDD	ng/kg	5.56 U	1.72 J Z	5.48 U B, Z	5.71 U B	2.31 J Z	5.59 U B, Z	3.56 J Z
2,3,7,8-TCDF	ng/kg	1.11 U	0.285 J Z	1.10 U	0.0128 J Z	1.15 U B, Z	0.0214 J Z	0.404 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.0449 J Z	0.909 J Z	5.48 U B, Z	5.71 U B	0.639 J Z	5.59 U B, Z	1.28 J Z
2,3,4,7,8-PeCDF	ng/kg	5.56 U B	0.896 J Z	5.48 U B, Z	5.71 U B	0.359 J Z	5.59 U B, Z	0.967 J Z
1,2,3,7,8-PeCDF	ng/kg	5.56 U B	0.520 J Z	5.48 U B, Z	5.71 U B	0.338 J Z	5.59 U B, Z	0.421 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.56 U	0.892 J Z	5.48 U B, Z	5.71 U B	0.465 J Z	5.59 U B, Z	0.855 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.56 U B	6.55	5.48 U B, Z	5.71 U B	7.8	5.59 U B, Z	11.9
2,3,4,6,7,8-HxCDF	ng/kg	5.56 U B	0.761 J Z	5.48 U B, Z	5.71 U B	0.504 J Z	5.59 U B, Z	0.966 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.56 U B	13.6	5.48 U B, Z	5.71 U B	10.2	5.59 U B, Z	21.3
1,2,3,4,7,8-HxCDF	ng/kg	5.56 U B	1.29 J Z	5.48 U B, Z	5.71 U B	0.773 J Z	5.59 U B, Z	1.51 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.56 U B	1.00 J Z	5.48 U B, Z	5.71 U B	0.982 J Z	5.59 U B, Z	1.32 J Z
Aroclor 1260	ug/kg	1.9 U	2.3	1.9 U	2.0 U	2.0 U	1.9 U	1.9
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.8 U	7	3.6 U	3.8 U	2.4 J Z	3.8 UJ C	3.8
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.7 U	3.6 U	3.8 U	3.8 U	3.8 UJ C	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.7 U	3.6 U	3.8 U	3.8 U	3.8 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-088-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SB-4.0-5.0	SL-089-SA5DN-SS-0.0-0.5	SL-089-SA5DN-SB-4.0-5.0	SL-090-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SB-4.0-5.0
Sample Date		05/18/2011	05/20/2011	05/18/2011	05/23/2011	05/18/2011	05/27/2011	06/24/2011
SDG		DX084	DX086	DX084	DX087	DX084	DX094	DX105
Start Depth		0	4	0	4	0	0	4
End Depth		0.5	5	0.5	5	0.5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.131 J Z	1.18 U B, Z	1.08 J Z	1.10 U	0.626 J Z	1.08 U B	0.0937 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.22 J Z	5.90 U B, Z	36.3 J Q, E	5.48 U B, Z	80.4	2.52 J Z	5.95 U B
OCDD	ng/kg	1730	11.8 U B, Z	16400 J *#	13.5	124000 J *#	1530	111
1,2,3,4,6,7,8-HpCDD	ng/kg	91.2	5.90 U B, Z	864 J Q, E	5.48 U B, Z	10500 J *#	99	12.7
OCDF	ng/kg	15.5	11.8 U B, Z	167 J Q, E	11.0 U B, Z	2350	32.4	4.90 J Z
1,2,3,4,7,8-HxCDD	ng/kg	1.85 J Z	5.90 U B, Z	16.9	5.48 U B, Z	33.7	0.985 J Z	5.95 U B
1,2,3,7,8-PeCDD	ng/kg	1.29 J Z	5.90 U B, Z	9.62	5.48 U B, Z	8.87	0.951 J Z	0.487 J Z
2,3,7,8-TCDF	ng/kg	1.11 U B, Z	1.18 U	1.16 U B, Z	1.10 U	0.384 J Z	0.302 J Z	0.587 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.56 U B, Z	5.90 U B, Z	2.17 J Z	5.48 U B, Z	48.1	0.655 J Z	3.05 J Z
2,3,4,7,8-PeCDF	ng/kg	5.56 U B, Z	5.90 U B, Z	0.623 J Z	5.48 U B, Z	2.17 J Z	0.714 J Z	75.7
1,2,3,7,8-PeCDF	ng/kg	0.369 J Z	5.90 U B, Z	0.521 J Z	5.48 U B, Z	0.938 J Z	0.747 J Z	108
1,2,3,6,7,8-HxCDF	ng/kg	5.56 U B, Z	5.90 U B, Z	1.72 J Z	5.48 U B, Z	13.3	0.447 J Z	7.52
1,2,3,6,7,8-HxCDD	ng/kg	4.27 J Z	5.90 U B, Z	33.8 J Q, E	5.48 U B, Z	222	3.37 J Z	0.583 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.56 U B, Z	5.90 U B, Z	2.05 J Z	5.48 U B, Z	17.9	0.657 J Z	3.75 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	4.83 J Z	5.90 U B, Z	52.7 J Q, E	5.48 U B, Z	642	8.66	4.21 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.297 J Z	5.90 U B, Z	2.47 J Z	5.48 U B, Z	10.6	0.773 J Z	24
1,2,3,7,8,9-HxCDF	ng/kg	1.58 J Z	5.90 U B, Z	1.38 J Z	5.48 U B, Z	3.68 J Z	1.00 J Z	4.51 J Z
Aroclor 1260	ug/kg	1.9 U	2.0 U	2.0 UJ FD	1.9 U	2.1 U	3.6	100 U
Aroclor 1254	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	8.6 J S	1.9 U	660
Aroclor 1268	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.1 U	1.9 U	100 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.1 U	1.9 U	100 U
Aroclor 5460	ug/kg	3.7 U	3.9 UJ C	3.4 J FD, Z	3.6 U	4.1 U	6.4	200 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.1 U	1.9 U	100 U
Aroclor 5442	ug/kg	3.7 U	3.9 UJ C	3.8 U	3.6 U	4.1 U	3.6 U	200 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.1 U	1.9 U	100 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.1 U	1.9 U	100 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.1 U	1.9 U	100 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.1 U	1.9 U	100 U
Aroclor 5432	ug/kg	3.7 U	3.9 U	3.8 U	3.6 U	4.1 U	3.6 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-092-SA5DN-SS-0.0-0.5	SL-092-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SB-7.0-8.0	SL-093-SA5DN-SS-0.0-0.5	SL-093-SA5DN-SB-4.0-5.0	SL-093-SA5DN-SB-9.0-10.0	SL-094-SA5DN-SS-0.0-0.5
Sample Date		05/27/2011	06/24/2011	06/24/2011	05/27/2011	06/20/2011	06/20/2011	05/31/2011
SDG		DX094	DX105	DX105	DX094	DX103	DX103	DX095
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.07 U B	0.0268 J Z	0.0734 J Z	1.09 U B	0.0488 J Z	1.10 U	1.08 U B
1,2,3,7,8,9-HxCDD	ng/kg	1.64 J Z	5.54 U B	5.81 U B	1.78 J Z	5.88 U B	5.52 U B	1.60 J Z
OCDD	ng/kg	724	11.1 UJ B, FD	14.8	1050	11.8 U B	11.0 U B	882
1,2,3,4,6,7,8-HpCDD	ng/kg	45.8	5.54 U B	5.81 U B	54.2	5.88 U B	5.52 U B	54.7
OCDF	ng/kg	15.6	11.1 U B	11.6 U B	16.8	11.8 U B	11.0 U B	18.8
1,2,3,4,7,8-HxCDD	ng/kg	0.503 J Z	5.54 U B	5.81 U B	0.583 J Z	0.141 J Z	5.52 U	0.469 J Z
1,2,3,7,8-PeCDD	ng/kg	0.315 J Z	5.54 UJ B, FD	0.257 J Z	0.400 J Z	5.88 U B	5.52 U	0.411 J Z
2,3,7,8-TCDF	ng/kg	1.07 U	1.11 U	0.0373 J Z	0.310 J Z	1.18 U	1.10 U	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.36 U B	5.54 U B	5.81 U B	5.43 U B	5.88 U B	5.52 U B	5.42 U B
2,3,4,7,8-PeCDF	ng/kg	0.790 J Z	5.54 UJ B, FD	5.81 U B	0.936 J Z	5.88 U B	5.52 U B	0.891 J Z
1,2,3,7,8-PeCDF	ng/kg	0.679 J Z	5.54 UJ B, FD	5.81 U B	0.606 J Z	0.173 J Z	5.52 U B	0.830 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.358 J Z	5.54 UJ B, FD	5.81 U B	0.340 J Z	5.88 U B	5.52 U B	0.422 J Z
1,2,3,6,7,8-HxCDD	ng/kg	1.95 J Z	5.54 U B	5.81 U B	2.23 J Z	5.88 U B	5.52 U B	2.25 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.492 J Z	5.54 UJ B, FD	5.81 U B	0.537 J Z	5.88 U B	5.52 U B	0.601 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	4.39 J Z	5.54 U B	5.81 U B	4.53 J Z	5.88 U B	5.52 U B	4.64 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.746 J Z	5.54 UJ B, FD	5.81 U B	0.582 J Z	5.88 U B	5.52 U B	0.661 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.958 J Z	5.54 U B	5.81 U B	1.13 J Z	0.269 J Z	0.132 J Z	1.01 J Z
Aroclor 1260	ug/kg	2.8	2.0 U	2.0 U	27	0.55 J Z	1.9 U	4.4
Aroclor 1254	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	3.8 U	3.9 U	1.9 J Z	3.9 U	3.7 U	4.7
Aroclor 1232	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.8 U	3.9 U	3.6 U	3.9 U	3.7 U	3.6 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.8 U	3.9 U	3.6 U	3.9 U	3.7 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-094-SA5DN-SB-4.0-5.0	SL-094-SA5DN-SB-9.0-10.0	SL-095-SA5DN-SS-0.0-0.5	SL-095-SA5DN-SB-4.0-5.0	SL-095-SA5DN-SB-9.0-10.0	SL-097-SA5DN-SS-0.0-0.5	SL-097-SA5DN-SB-4.0-5.0
Sample Date		06/22/2011	06/22/2011	05/31/2011	06/22/2011	06/22/2011	05/31/2011	06/21/2011
SDG		DX104	DX104	DX095	DX104	DX104	DX095	DX104
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.16 U B	1.15 U B	1.06 U B	1.12 U B	1.09 U B	1.12 U B	1.17 U
1,2,3,7,8,9-HxCDD	ng/kg	5.79 U B	5.75 U B	1.64 J Z	5.58 U B	5.45 U B	2.20 J Z	5.86 U B
OCDD	ng/kg	11.6 U B	11.5 U B	831	11.5	7.45 J Z	1760	9.03 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.79 U B	5.75 U B	57.5	5.58 U B	5.45 U B	117	5.86 U B
OCDF	ng/kg	11.6 U B	11.5 U B	31	11.2 U B	10.9 U B	35	11.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.79 U B	5.75 U B	0.556 J Z	5.58 U B	5.45 U B	0.782 J Z	5.86 U B
1,2,3,7,8-PeCDD	ng/kg	5.79 U B	5.75 U B	0.417 J Z	5.58 U B	5.45 U B	0.398 J Z	5.86 U B
2,3,7,8-TCDF	ng/kg	1.16 U B	1.15 U B	1.06 U	1.12 U B	1.09 U B	0.339 J Z	1.17 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.79 U B	5.75 U B	0.635 J Z	5.58 U B	5.45 U B	0.753 J Z	5.86 U B
2,3,4,7,8-PeCDF	ng/kg	5.79 U B	5.75 U B	0.860 J Z	5.58 U B	5.45 U B	0.882 J Z	5.86 U B
1,2,3,7,8-PeCDF	ng/kg	5.79 U B	5.75 U B	0.499 J Z	5.58 U B	5.45 U B	0.862 J Z	5.86 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.79 U B	5.75 U B	0.463 J Z	5.58 U B	5.45 U B	0.538 J Z	5.86 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.79 U B	5.75 U B	2.15 J Z	5.58 U B	5.45 U B	3.77 J Z	5.86 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.79 U B	5.75 U B	0.551 J Z	5.58 U B	5.45 U B	0.597 J Z	5.86 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.79 U B	5.75 U B	6.99	5.58 U B	5.45 U B	9.26	5.86 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.79 U B	5.75 U B	0.599 J Z	5.58 U B	5.45 U B	1.05 J Z	5.86 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.117 J Z	0.111 J Z	0.768 J Z	0.363 J Z	0.0983 J Z	1.12 J Z	0.0635 J Z
Aroclor 1260	ug/kg	2.0 U	2.0 U	10	1.9 U	1.9 U	37	2.0 U
Aroclor 1254	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	12 J Z	3.7 U	3.7 U	19 U	3.9 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	18 U	3.7 U	3.7 U	19 U	3.9 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	9.1 U	1.9 U	1.9 U	9.6 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	18 U	3.7 U	3.7 U	19 U	3.9 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-097-SA5DN-SB-8.5-9.5	SL-098-SA5DN-SS-0.0-0.5	SL-098-SA5DN-SB-4.0-5.0	SL-098-SA5DN-SB-7.0-8.0	SL-099-SA5DN-SS-0.0-0.5	SL-099-SA5DN-SB-4.0-5.0	SL-100-SA5DN-SS-0.0-0.5
Sample Date		06/21/2011	05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011	06/01/2011
SDG		DX104	DX095	DX104	DX104	DX095	DX104	DX096
Start Depth		8.5	0	4	7	0	4	0
End Depth		9.5	0.5	5	8	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.12 U B	0.266 J Z	1.17 U B	1.14 U B	0.256 J Z	1.12 U B	0.0569 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.61 U B	9.29	0.680 J Z	5.70 U B	7.11	5.61 U B	1.85 J Z
OCDD	ng/kg	11.2 U B	12600 J *#	349	21	8970 J *#	50.8	1340
1,2,3,4,6,7,8-HpCDD	ng/kg	5.61 U B	824	23.6	5.70 U B	488	3.32 J Z	82.6
OCDF	ng/kg	11.2 U B	588	11.1 J Z	11.4 U B	168	1.42 J Z	28
1,2,3,4,7,8-HxCDD	ng/kg	5.61 U B	4.03 J Z	5.84 U B	5.70 U B	3.05 J Z	5.61 U B	0.595 J Z
1,2,3,7,8-PeCDD	ng/kg	5.61 U	2.45 J Z	5.84 U B	5.70 U B	2.04 J Z	0.253 J Z	0.364 J Z
2,3,7,8-TCDF	ng/kg	1.12 U B	0.527 J Z	0.303 J Z	1.14 U B	0.580 J Z	1.12 U	0.241 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.61 U B	5.40 J Z	5.84 U B	5.70 U B	2.26 J Z	5.61 U B	0.547 J Z
2,3,4,7,8-PeCDF	ng/kg	5.61 U B	2.09 J Z	0.628 J Z	5.70 U B	1.42 J Z	5.61 U B	0.512 J Z
1,2,3,7,8-PeCDF	ng/kg	5.61 U	1.48 J Z	0.374 J Z	5.70 U B	1.59 J Z	0.266 J Z	0.405 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.61 U B	2.00 J Z	5.84 U B	5.70 U B	1.37 J Z	5.61 U B	0.337 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.61 U B	24.8	0.921 J Z	5.70 U B	15.5	5.61 U B	2.96 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.61 U B	2.59 J Z	5.84 U B	5.70 U B	1.49 J Z	5.61 U B	0.492 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.61 U B	101	3.13 J Z	5.70 U B	36.3	5.61 U B	7.38
1,2,3,4,7,8-HxCDF	ng/kg	5.61 U B	3.71 J Z	0.574 J Z	5.70 U B	2.55 J Z	5.61 U B	0.577 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.61 U	1.75 J Z	0.283 J Z	0.189 J Z	1.31 J Z	0.250 J Z	0.966 J Z
Aroclor 1260	ug/kg	1.9 U	11	3.4	2.0 U	1.5 J Z	1.9 U	4
Aroclor 1254	ug/kg	1.9 U	9.6 U	2.0 U	0.57 J Z	1.8 U	1.9 U	1.8 U
Aroclor 1268	ug/kg	1.9 U	9.6 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	9.6 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	3.7 U	28	4.1 J L	3.8 U	3.5 U	3.7 U	3.9
Aroclor 1232	ug/kg	1.9 U	9.6 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.7 U	19 U	3.9 U	3.8 U	3.5 U	3.7 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	9.6 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	9.6 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	9.6 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	9.6 U	2.0 U	2.0 U	1.8 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.7 U	19 U	3.9 U	3.8 U	3.5 U	3.7 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-100-SA5DN-SB-3.0-4.0	SL-101-SA5DN-SS-0.0-0.5	SL-101-SA5DN-SB-2.5-3.5	SL-102-SA5DN-SS-0.0-0.5	SL-102-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SS-0.0-0.5	SL-103-SA5DN-SB-4.0-5.0
Sample Date		06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/24/2011
SDG		DX105	DX095	DX105	DX095	DX105	DX095	DX105
Start Depth		3	0	2.5	0	4	0	4
End Depth		4	0.5	3.5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U	0.208 J Z	1.04 U	0.209 J Z	1.05 U	1.06 U B	0.0481 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.63 U B	2.37 J Z	5.18 U B	7.6	5.23 U B	4.89 J Z	1.04 J Z
OCDD	ng/kg	76.5	920	10.4 U B	8510 J *#	264	6190 J *#	1440
1,2,3,4,6,7,8-HpCDD	ng/kg	4.87 J Z	55.6	5.18 U B	509	13	412	61.7
OCDF	ng/kg	11.3 U B	17.1	10.4 U B	191	5.67 J Z	132	19.9
1,2,3,4,7,8-HxCDD	ng/kg	5.63 U B	1.01 J Z	5.18 U	3.21 J Z	5.23 U B	2.03 J Z	0.386 J Z
1,2,3,7,8-PeCDD	ng/kg	5.63 U B	1.03 J Z	5.18 U	2.04 J Z	5.23 U B	1.43 J Z	0.222 J Z
2,3,7,8-TCDF	ng/kg	1.13 U	0.815 J Z	1.04 U	0.373 J Z	1.05 U	0.464 J Z	0.111 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.63 U B	0.642 J Z	5.18 U B	2.41 J Z	5.23 U B	2.21 J Z	5.32 U B
2,3,4,7,8-PeCDF	ng/kg	5.63 U B	1.53 J Z	5.18 U B	0.991 J Z	5.23 U B	1.04 J Z	5.32 U B
1,2,3,7,8-PeCDF	ng/kg	5.63 U B	1.56 J Z	5.18 U B	0.523 J Z	5.23 U B	0.480 J Z	0.426 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.63 U B	1.18 J Z	5.18 U B	1.22 J Z	5.23 U B	1.24 J Z	5.32 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.63 U B	2.96 J Z	5.18 U B	15.4	0.446 J Z	12.7	2.00 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.63 U B	0.941 J Z	5.18 U B	1.37 J Z	5.23 U B	1.37 J Z	5.32 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.63 U B	5.98	5.18 U B	38.3	1.70 J Z	28.8	6.36
1,2,3,4,7,8-HxCDF	ng/kg	5.63 U B	1.30 J Z	5.18 U B	2.43 J Z	5.23 U B	2.32 J Z	0.456 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.63 U B	1.06 J Z	5.18 U B	1.09 J Z	5.23 U B	1.24 J Z	5.32 U B
Aroclor 1260	ug/kg	1.9 U	4.8 J Z	1.8 U	4.8 J Z	1.8 U	5.2 J Z	1.9 U
Aroclor 1254	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	18 U	3.4 U	18 U	3.5 U	36 U	3.6 U
Aroclor 1232	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	18 U	3.4 U	18 U	3.5 U	36 U	3.6 U
Aroclor 1248	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	9.1 U	1.8 U	9.3 U	1.8 U	19 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	18 U	3.4 U	18 U	3.5 U	36 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-103-SA5DN-SB-7.0-8.0	SL-104-SA5DN-SS-0.0-0.5	SL-104-SA5DN-SB-4.0-5.0	SL-105-SA5DN-SS-0.0-0.5	SL-105-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SS-0.0-0.5	SL-106-SA5DN-SB-4.0-5.0
Sample Date		06/24/2011	05/31/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/23/2011
SDG		DX105	DX095	DX105	DX096	DX105	DX096	DX105
Start Depth		7	0	4	0	4	0	4
End Depth		8	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0486 J Z	1.06 U B	0.0663 J Z	1.06 U B	0.112 J Z	0.134 J Z	0.0517 J Z
1,2,3,7,8,9-HxCDD	ng/kg	1.36 J Z	2.46 J Z	5.49 U B	3.34 J Z	1.60 J Z	1.91 J Z	0.624 J Z
OCDD	ng/kg	3210	2460	11.0 U B	3740	1640	1520	24.3
1,2,3,4,6,7,8-HpCDD	ng/kg	143	145	5.49 U B	214	82.5	85.4	5.53 U B
OCDF	ng/kg	48.6	46.4	11.0 U B	75.7	26.3	29.5	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.78 U B	0.725 J Z	5.49 U B	1.46 J Z	0.567 J Z	0.828 J Z	5.53 U B
1,2,3,7,8-PeCDD	ng/kg	5.78 U B	0.429 J Z	0.200 J Z	0.781 J Z	0.551 J Z	0.521 J Z	0.165 J Z
2,3,7,8-TCDF	ng/kg	0.0369 J Z	0.414 J Z	0.0572 J Z	1.06 U	0.254 J Z	0.250 J Z	0.0466 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.692 J Z	1.04 J Z	5.49 U B	1.75 J Z	5.33 U B	0.845 J Z	5.53 U B
2,3,4,7,8-PeCDF	ng/kg	5.78 U B	0.712 J Z	5.49 U B	1.01 J Z	5.33 U B	0.698 J Z	5.53 U B
1,2,3,7,8-PeCDF	ng/kg	5.78 U B	0.690 J Z	0.259 J Z	1.06 J Z	0.560 J Z	0.995 J Z	5.53 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.441 J Z	0.570 J Z	5.49 U B	0.845 J Z	0.461 J Z	0.587 J Z	5.53 U B
1,2,3,6,7,8-HxCDD	ng/kg	4.24 J Z	4.88 J Z	5.49 U B	6.6	2.71 J Z	2.84 J Z	0.435 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.962 J Z	0.702 J Z	5.49 U B	1.21 J Z	5.33 U B	0.677 J Z	5.53 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	16.2	12	5.49 U B	20.7	6.53	8.38	5.53 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.865 J Z	0.867 J Z	5.49 U B	1.92 J Z	0.664 J Z	0.884 J Z	5.53 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.78 U B	0.839 J Z	5.49 U B	0.983 J Z	0.862 J Z	1.06 J Z	0.676 J Z
Aroclor 1260	ug/kg	2.0 U	7.1 J Z	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 1254	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 5460	ug/kg	3.9 U	35 U	3.7 U	35 U	3.6 U	18 U	3.7 U
Aroclor 1232	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 5442	ug/kg	3.9 U	35 U	3.7 U	35 U	3.6 U	18 U	3.7 U
Aroclor 1248	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	18 U	1.9 U	18 U	1.9 U	9.1 U	1.9 U
Aroclor 5432	ug/kg	3.9 U	35 U	3.7 U	35 U	3.6 U	18 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-106-SA5DN-SB-9.0-10.0	SL-107-SA5DN-SS-0.0-0.5	SL-107-SA5DN-SB-3.5-4.5	SL-108-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SB-3.5-4.5	SL-110-SA5DN-SS-0.0-0.5
Sample Date		06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/01/2011	06/23/2011	05/31/2011
SDG		DX105	DX096	DX105	DX096	DX096	DX105	DX095
Start Depth		9	0	3.5	0	0	3.5	0
End Depth		10	0.5	4.5	0.5	0.5	4.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0339 J Z	1.03 U B	0.0461 J Z	1.05 UJ B, FD	1.07 U B	1.02 U	1.09 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.49 U B	1.79 J Z	5.43 U B	2.11 J Z	2.25 J Z	5.10 U B	2.14 J Z
OCDD	ng/kg	11.0 U B	1110	5.43 J Z	1790	2130	6.83 J Z	1610
1,2,3,4,6,7,8-HpCDD	ng/kg	5.49 U B	65.2	5.43 U B	108	119	5.10 U B	91
OCDF	ng/kg	11.0 U B	30.4	10.9 U B	35	37.2	10.2 U B	36.6
1,2,3,4,7,8-HxCDD	ng/kg	5.49 U B	0.902 J Z	5.43 U B	0.761 J Z	0.897 J Z	5.10 U B	0.702 J Z
1,2,3,7,8-PeCDD	ng/kg	5.49 U B	0.612 J Z	5.43 U B	0.390 J Z	0.463 J Z	5.10 U	0.560 J Z
2,3,7,8-TCDF	ng/kg	0.0438 J Z	0.237 J Z	1.09 U	0.360 J Z	0.364 J Z	0.0332 J Z	0.264 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.49 U B	0.836 J Z	5.43 U B	0.827 J FD, Z	1.85 J Z	5.10 U B	5.44 U B
2,3,4,7,8-PeCDF	ng/kg	5.49 U B	0.767 J Z	5.43 U B	0.722 J Z	0.905 J Z	5.10 U B	0.812 J Z
1,2,3,7,8-PeCDF	ng/kg	5.49 U B	0.802 J Z	5.43 U B	1.05 J Z	1.03 J Z	5.10 U B	0.355 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.49 U B	0.649 J Z	5.43 U B	0.475 J Z	0.676 J Z	5.10 U B	0.426 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.49 U B	2.52 J Z	5.43 U B	3.62 J Z	3.99 J Z	5.10 U B	3.22 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.49 U B	0.704 J Z	5.43 U B	0.586 J Z	0.943 J Z	5.10 U B	0.606 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.49 U B	8.32	5.43 U B	9.73	10.6	5.10 U B	7.4
1,2,3,4,7,8-HxCDF	ng/kg	5.49 U B	0.807 J Z	5.43 U B	0.802 J Z	1.28 J Z	5.10 U B	0.643 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.49 U B	0.854 J Z	5.43 U B	0.646 J Z	1.27 J Z	5.10 U B	1.14 J Z
Aroclor 1260	ug/kg	1.9 U	18 U	1.9 U	4.7 J Z	4.0 J Z	1.8 U	8.2 J Z
Aroclor 1254	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 1268	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 1221	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 5460	ug/kg	3.7 U	34 U	3.6 U	6.3 J FD, Z	18 U	3.5 U	6.6 J Z
Aroclor 1232	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 5442	ug/kg	3.7 U	34 U	3.6 U	17 U	18 U	3.5 U	18 U
Aroclor 1248	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 1016	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 1262	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 1242	ug/kg	1.9 U	18 U	1.9 U	9.0 U	9.2 U	1.8 U	9.3 U
Aroclor 5432	ug/kg	3.7 U	34 U	3.6 U	17 U	18 U	3.5 U	18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-110-SA5DN-SB-4.0-5.0	SL-111-SA5DN-SS-0.0-0.5	SL-111-SA5DN-SB-4.0-5.0	SL-112-SA5DN-SS-0.0-0.5	SL-112-SA5DN-SB-4.0-5.0	SL-113-SA5DN-SS-0.0-0.5	SL-113-SA5DN-SB-4.0-5.0
Sample Date		06/23/2011	05/31/2011	06/22/2011	05/31/2011	06/22/2011	05/31/2011	06/21/2011
SDG		DX105	DX095	DX104	DX095	DX104	DX095	DX104
Start Depth		4	0	4	0	4	0	4
End Depth		5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	1.11 U B	1.14 U B	1.08 U B	1.16 U	0.213 J Z	1.18 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.42 U B	2.86 J Z	5.68 U B	2.30 J Z	5.80 UJ B, FD	7	5.88 U B
OCDD	ng/kg	43.5	3790	8.66 J Z	1950	5.04 J Z	9240 J *#	11.8 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	3.41 J Z	204	5.68 U B	126	5.80 U B	589	5.88 U B
OCDF	ng/kg	10.8 U B	73.5	11.4 U B	42.4	11.6 U B	220	11.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.42 U B	0.929 J Z	5.68 U	0.867 J Z	5.80 UJ B, FD	2.92 J Z	5.88 U B
1,2,3,7,8-PeCDD	ng/kg	5.42 U B	0.443 J Z	5.68 U	0.523 J Z	5.80 UJ B, FD	1.37 J Z	5.88 U B
2,3,7,8-TCDF	ng/kg	1.08 U	0.213 J Z	1.14 U	0.300 J Z	1.16 U	0.558 J Z	1.18 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	5.42 U B	1.02 J Z	5.68 U B	0.776 J Z	5.80 U B	3.41 J Z	5.88 U B
2,3,4,7,8-PeCDF	ng/kg	5.42 U B	0.523 J Z	5.68 U B	0.788 J Z	5.80 U B	2.30 J Z	5.88 U B
1,2,3,7,8-PeCDF	ng/kg	5.42 U B	0.337 J Z	5.68 U B	0.697 J Z	5.80 UJ B, FD	1.55 J Z	5.88 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.42 U B	0.575 J Z	5.68 U B	0.595 J Z	5.80 U B	1.98 J Z	5.88 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.42 U B	6.32	5.68 U B	4.29 J Z	5.80 UJ B, FD	16.7	5.88 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.42 U B	0.658 J Z	5.68 U B	0.680 J Z	5.80 U B	2.18 J Z	5.88 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.42 U B	15.7	5.68 U B	10.2	5.80 U B	51.4	5.88 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.42 U B	1.06 J Z	5.68 U B	0.853 J Z	5.80 U B	4.78 J Z	5.88 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.42 U B	1.25 J Z	0.105 J Z	0.922 J Z	0.209 J Z	2.08 J Z	0.122 J Z
Aroclor 1260	ug/kg	1.9 U	1.9 U	1.9 U	5.6	2.0 U	19	2.0 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 5460	ug/kg	3.6 U	3.7 U	3.8 U	4.3	3.9 UJ FD	22	3.9 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 5442	ug/kg	3.6 U	3.7 U	3.8 U	3.6 U	3.9 U	18 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	9.3 U	2.0 U
Aroclor 5432	ug/kg	3.6 U	3.7 U	3.8 U	3.6 U	3.9 U	18 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-114-SA5DN-SS-0.0-0.5	SL-114-SA5DN-SB-4.0-5.0	SL-115-SA5DN-SB-4.0-5.0	SL-116-SA5DN-SB-2.0-3.0	SL-117-SA5DN-SS-0.0-0.5	SL-117-SA5DN-SB-4.0-5.0	SL-118-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	06/22/2011	06/22/2011	06/28/2011	05/27/2011	06/20/2011	05/27/2011
SDG		DX095	DX104	DX105	DX106	DX094	DX103	DX094
Start Depth		0	4	4	2	0	4	0
End Depth		0.5	5	5	3	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.04 U B	1.09 U B	0.0520 J Z	0.0496 J FD, Z	1.10 UJ FD	1.09 U	1.05 U B
1,2,3,7,8,9-HxCDD	ng/kg	1.26 J Z	5.43 U B	5.62 U B	5.34 U B	0.693 J FD, Z	5.47 U B	1.43 J Z
OCDD	ng/kg	455	10.9 U B	11.2 U B	10.7 U B	180 J FD, Q, E	7.88 J Z	960
1,2,3,4,6,7,8-HpCDD	ng/kg	29.8	5.43 U B	5.62 U B	5.34 U B	15.6 J FD, Q	5.47 U B	44.3
OCDF	ng/kg	16.1	10.9 U B	11.2 U B	10.7 U B	7.02 J FD, Z	10.9 U B	14.1
1,2,3,4,7,8-HxCDD	ng/kg	5.22 U B	5.43 U B	5.62 U B	0.0924 J FD, Z	0.180 J FD, Z	0.0487 J Z	0.327 J Z
1,2,3,7,8-PeCDD	ng/kg	0.393 J Z	5.43 U B	5.62 U B	0.173 J FD, Z	5.50 UJ B, FD	5.47 U	0.407 J Z
2,3,7,8-TCDF	ng/kg	0.320 J Z	1.09 U B	1.12 U	0.0575 J FD, Z	0.219 J Z	1.09 U	1.05 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	5.22 U B	5.43 U B	5.62 U B	5.34 U B	5.50 UJ B, FD	5.47 U B	5.26 U B
2,3,4,7,8-PeCDF	ng/kg	0.594 J Z	5.43 U B	5.62 U B	5.34 UJ B, FD	5.50 UJ B, FD	5.47 U B	0.417 J Z
1,2,3,7,8-PeCDF	ng/kg	0.479 J Z	5.43 U B	5.62 U B	0.208 J FD, Z	0.757 J Z	5.47 U B	0.454 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.393 J Z	5.43 U B	5.62 U B	0.163 J FD, Z	5.50 UJ B, FD	5.47 U B	0.373 J Z
1,2,3,6,7,8-HxCDD	ng/kg	1.53 J Z	5.43 U B	5.62 U B	0.180 J FD, Z	0.855 J FD, Z	5.47 U B	1.83 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.346 J Z	5.43 U B	5.62 U B	5.34 UJ B, FD	5.50 UJ B, FD	5.47 U B	5.26 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	3.43 J Z	5.43 U B	5.62 U B	5.34 UJ B, FD	2.47 J FD, Z	5.47 U B	3.07 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.558 J Z	5.43 U B	5.62 U B	0.151 J FD, Z	5.50 UJ B, FD	5.47 U B	0.485 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.760 J Z	0.420 J Z	5.62 U B	5.34 U B	0.642 J FD, Z	0.172 J Z	1.38 J Z
Aroclor 1260	ug/kg	15	1.9 U	1.9 U	1.8 U	4	1.9 U	1.9 U
Aroclor 1254	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	5.8 J Z	3.7 U	3.8 U	3.6 U	1.9 J FD, Z	3.7 U	3.6 U
Aroclor 1232	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	18 U	3.7 U	3.8 U	3.6 U	3.6 U	3.7 U	3.6 U
Aroclor 1248	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	18 U	3.7 U	3.8 U	3.6 U	3.6 U	3.7 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-118-SA5DN-SB-4.0-5.0	SL-119-SA5DN-SS-0.0-0.5	SL-119-SA5DN-SB-4.0-5.0	SL-120-SA5DN-SS-0.0-0.5	SL-120-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SS-0.0-0.5	SL-121-SA5DN-SB-4.0-5.0
Sample Date		06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/21/2011	05/31/2011	06/21/2011
SDG		DX104	DX094	DX104	DX094	DX104	DX095	DX104
Start Depth		4	0	4	0	4	0	4
End Depth		5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.10 U	0.226 J Z	1.14 U B	0.161 J Z	1.12 U B	0.255 J Z	1.11 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.49 U B	7.8	5.70 U B	5.49	5.62 U B	6.78	5.53 U B
OCDD	ng/kg	5.11 J Z	17900 J *#	29.1	5320 J *#	22.4	6220 J *#	13.2
1,2,3,4,6,7,8-HpCDD	ng/kg	5.49 U B	1110	5.70 U B	305	5.62 U B	399	5.53 U B
OCDF	ng/kg	11.0 U B	68.7	11.4 U B	82.5	11.2 U B	131	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.49 U B	3.41 J Z	5.70 U B	2.29 J Z	5.62 U B	2.95 J Z	5.53 U B
1,2,3,7,8-PeCDD	ng/kg	5.49 U B	1.97 J Z	5.70 U B	1.20 J Z	5.62 U B	1.63 J Z	5.53 U B
2,3,7,8-TCDF	ng/kg	1.10 U	0.722 J Z	1.14 U	0.532 J Z	1.12 U B	1.03 J Z	1.11 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	5.49 U B	2.98 J Z	5.70 U B	1.28 J Z	5.62 U B	2.08 J Z	5.53 U B
2,3,4,7,8-PeCDF	ng/kg	5.49 U B	1.45 J Z	5.70 U B	1.27 J Z	5.62 U B	2.76 J Z	5.53 U B
1,2,3,7,8-PeCDF	ng/kg	5.49 U B	1.31 J Z	5.70 U B	1.07 J Z	5.62 U B	2.39 J Z	5.53 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.49 U B	1.70 J Z	5.70 U B	0.941 J Z	5.62 U B	1.55 J Z	5.53 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.49 U B	15.6	5.70 U B	8.99	5.62 U B	12	5.53 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.49 U B	2.12 J Z	5.70 U B	1.12 J Z	5.62 U B	1.87 J Z	5.53 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.49 U B	31	5.70 U B	19.3	5.62 U B	29.6	5.53 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.49 U B	1.88 J Z	5.70 U B	1.46 J Z	5.62 U B	1.96 J Z	5.53 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.0560 J Z	1.55 J Z	0.0745 J Z	1.40 J Z	0.0940 J Z	1.12 J Z	0.184 J Z
Aroclor 1260	ug/kg	1.9 U	1.7 J Z	1.9 U	30	1.9 U	2.1	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.6 U	2.1 J Z	3.8 U	12 J Z	3.7 U	2.4 J Z	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	3.6 U	3.8 U	18 U	3.7 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	9.3 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	3.6 U	3.8 U	18 U	3.7 U	3.5 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-121-SA5DN-SB-8.0-9.0	SL-122-SA5DN-SS-0.0-0.5	SL-122-SA5DN-SB-4.0-5.0	SL-123-SA5DN-SS-0.0-0.5	SL-123-SA5DN-SB-2.5-3.5	SL-124-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SS-0.0-0.5
Sample Date		06/21/2011	05/27/2011	06/24/2011	06/01/2011	06/27/2011	06/01/2011	05/31/2011
SDG		DX104	DX094	DX105	DX096	DX106	DX096	DX095
Start Depth		8	0	4	0	2.5	0	0
End Depth		9	0.5	5	0.5	3.5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.05 U B	0.155 J Z	1.12 U	0.163 J Z	0.0449 J Z	0.567 J Z	1.08 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.27 U B	3.05 J Z	5.61 U B	3.41 J Z	5.34 U B	53.5	3.86 J Z
OCDD	ng/kg	24.8	1170	11.2 U B	1830	8.05 J Z	37100 J *#	3190
1,2,3,4,6,7,8-HpCDD	ng/kg	2.49 J Z	67.6	5.61 U B	121	5.34 U B	3360 J *#	206
OCDF	ng/kg	10.5 U B	17.2	11.2 U B	35.1	10.7 U B	613	70.2
1,2,3,4,7,8-HxCDD	ng/kg	5.27 U B	1.15 J Z	5.61 U B	1.46 J Z	0.0892 J Z	29.7	1.54 J Z
1,2,3,7,8-PeCDD	ng/kg	5.27 U B	1.98 J Z	5.61 U B	0.990 J Z	5.34 U B	8.91	0.773 J Z
2,3,7,8-TCDF	ng/kg	1.05 U B	0.389 J Z	0.0484 J Z	0.505 J Z	0.0423 J Z	1/14/2012	0.403 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.27 U B	5.78 U B	5.61 U B	1.11 J Z	5.34 U B	23	1.13 J Z
2,3,4,7,8-PeCDF	ng/kg	5.27 U B	5.78 U B	5.61 U B	0.872 J Z	5.34 U B	4.17 J Z	0.995 J Z
1,2,3,7,8-PeCDF	ng/kg	5.27 U B	0.416 J Z	5.61 U B	1.21 J Z	0.124 J Z	1.61 J Z	0.868 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.27 U B	0.345 J Z	5.61 U B	0.706 J Z	5.34 U B	8	0.736 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.27 U B	3.24 J Z	5.61 U B	4.83 J Z	0.131 J Z	125	6.66
2,3,4,6,7,8-HxCDF	ng/kg	5.27 U B	5.78 U B	5.61 U B	0.872 J Z	5.34 U B	15.7	0.876 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.27 U B	5.69 J Z	5.61 U B	11.9	5.34 U B	256	16.6
1,2,3,4,7,8-HxCDF	ng/kg	5.27 U B	0.494 J Z	5.61 U B	0.943 J Z	5.34 U B	7.3	1.07 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.0493 J Z	1.27 J Z	5.61 U B	0.968 J Z	5.34 U B	2.85 J Z	1.28 J Z
Aroclor 1260	ug/kg	0.47 J Z	1.9 J Z	1.9 U	3.4	1.8 U	14 J S	7.6 J Z
Aroclor 1254	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 1268	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 1221	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 5460	ug/kg	3.5 U	4.1	3.7 U	3.0 J Z	3.5 U	16 J S, Z	6.3 J Z
Aroclor 1232	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 5442	ug/kg	3.5 U	3.9 U	3.7 U	3.6 U	3.5 U	18 R S	18 U
Aroclor 1248	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 1016	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 1262	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 1242	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	9.2 R S	9.4 U
Aroclor 5432	ug/kg	3.5 U	3.9 U	3.7 U	3.6 U	3.5 U	18 R S	18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-125-SA5DN-SB-4.0-5.0	SL-125-SA5DN-SB-9.0-10.0	SL-126-SA5DN-SS-0.0-0.5	SL-127-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SB-4.0-5.0	SL-129-SA5DN-SS-0.0-0.5
Sample Date		06/21/2011	06/21/2011	06/01/2011	06/01/2011	06/01/2011	06/29/2011	06/01/2011
SDG		DX104	DX104	DX096	DX096	DX096	DX106	DX096
Start Depth		4	9	0	0	0	4	0
End Depth		5	10	0.5	0.5	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.10 U	1.04 U B	0.178 J Z	0.152 J Z	1.11 U B	1.14 U	0.133 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.48 U B	5.19 U B	12	6.85	0.717 J Z	5.72 U	6.18
OCDD	ng/kg	33	10.4 U B	11200 J *#	3560	502	11.4 U B	2930
1,2,3,4,6,7,8-HpCDD	ng/kg	2.49 J Z	5.19 U B	650	187	24.1	5.72 U B	232
OCDF	ng/kg	1.86 J Z	10.4 U B	178	41	8.03 J Z	11.4 U B	60.4
1,2,3,4,7,8-HxCDD	ng/kg	5.48 U B	5.19 U B	6.29	3.28 J Z	0.226 J Z	5.72 U	2.59 J Z
1,2,3,7,8-PeCDD	ng/kg	5.48 U B	5.19 U B	2.25 J Z	1.85 J Z	5.54 U B	5.72 U	1.25 J Z
2,3,7,8-TCDF	ng/kg	1.10 U	1.04 U B	0.958 J Z	0.651 J Z	1.11 U	1.14 U	1.04 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.48 U B	5.19 U B	4.76 J Z	0.782 J Z	5.54 U B	5.72 U B	3.94 J Z
2,3,4,7,8-PeCDF	ng/kg	5.48 U B	5.19 U B	2.05 J Z	1.01 J Z	0.597 J Z	5.72 U B	1.23 J Z
1,2,3,7,8-PeCDF	ng/kg	5.48 U	5.19 U B	1.61 J Z	0.921 J Z	1.24 J Z	5.72 U B	1.61 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.48 U B	5.19 U B	2.14 J Z	0.611 J Z	5.54 U B	5.72 U B	1.35 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.48 U B	5.19 U B	20.4	7.05	0.945 J Z	5.72 U B	9.48
2,3,4,6,7,8-HxCDF	ng/kg	5.48 U B	5.19 U B	3.13 J Z	0.777 J Z	5.54 U B	5.72 U B	1.83 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.48 U B	5.19 U B	53.3	11.2	2.65 J Z	5.72 U B	23.7
1,2,3,4,7,8-HxCDF	ng/kg	5.48 U B	5.19 U B	2.53 J Z	1.09 J Z	0.475 J Z	5.72 U B	2.42 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.0720 J Z	0.0511 J Z	1.13 J Z	0.444 J Z	0.301 J Z	5.72 U B	0.571 J Z
Aroclor 1260	ug/kg	1.9 U	1.8 U	16	16	2.4	2.0 U	8.6
Aroclor 1254	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 5460	ug/kg	3.8 U	3.5 U	13 J Z	8.4 J Z	3.7 U	3.8 U	6.4
Aroclor 1232	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 5442	ug/kg	3.8 U	3.5 U	18 U	17 U	3.7 U	3.8 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	9.1 U	8.6 U	1.9 U	2.0 U	1.8 U
Aroclor 5432	ug/kg	3.8 U	3.5 U	18 U	17 U	3.7 U	3.8 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-129-SA5DN-SB-2.5-3.5	SL-130-SA5DN-SS-0.0-0.5	SL-130-SA5DN-SB-4.0-5.0	SL-131-SA5DN-SS-0.0-0.5	SL-131-SA5DN-SB-3.5-4.5	SL-132-SA5DN-SS-0.0-0.5	SL-132-SA5DN-SB-4.0-5.0
Sample Date		06/29/2011	06/01/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011	06/28/2011
SDG		DX106	DX096	DX089	DX097	DX106	DX097	DX106
Start Depth		2.5	0	4	0	3.5	0	4
End Depth		3.5	0.5	5	0.5	4.5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0376 J Z	3.55	0.105 J Z	1.03 U B	0.0711 J Z	0.263 J Z	0.0636 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.394 J Z	136	1.34 J Z	3.60 J Z	5.58 U B	9.69	5.52 U B
OCDD	ng/kg	109	180000 J *#	1170	3010	9.10 J Z	14200 J *#	15.4
1,2,3,4,6,7,8-HpCDD	ng/kg	9.97	5270 J *#	42.6	148	5.58 U B	520	5.52 U B
OCDF	ng/kg	2.64 J Z	1030	8.21 J Z	38.7	11.2 U B	113	11.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.150 J Z	59	0.595 J Z	1.61 J Z	0.101 J Z	4.47 J Z	0.108 J Z
1,2,3,7,8-PeCDD	ng/kg	5.12 U B	31.4	0.541 J Z	0.824 J Z	0.221 J Z	2.13 J Z	5.52 U B
2,3,7,8-TCDF	ng/kg	0.0619 J Z	0.809 J Z	0.0996 J Z	1.03 U	0.0674 J Z	0.351 J Z	0.0371 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.235 J Z	11	5.59 U B, Z	1.60 J Z	5.58 U B	2.00 J Z	5.52 U B
2,3,4,7,8-PeCDF	ng/kg	5.12 U B	3.57 J Z	5.59 U B, Z	0.667 J Z	5.58 U B	0.946 J Z	5.52 U B
1,2,3,7,8-PeCDF	ng/kg	0.190 J Z	3.23 J Z	0.410 J Z	0.227 J Z	0.243 J Z	0.530 J Z	0.123 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.154 J Z	6.49	0.329 J Z	0.743 J Z	5.58 U B	0.961 J Z	5.52 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.560 J Z	176	1.66 J Z	5.57	0.125 J Z	16.8	0.0925 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.12 U B	7.63	5.59 U B, Z	0.996 J Z	5.58 U B	1.39 J Z	5.52 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.17 J Z	243	2.69 J Z	14.1	5.58 U B	31	5.52 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.160 J Z	17.9	0.464 J Z	1.38 J Z	0.142 J Z	2.41 J Z	5.52 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.12 U B	5.05 J Z	5.59 U B, Z	0.440 J Z	5.58 U B	0.832 J Z	5.52 U B
Aroclor 1260	ug/kg	1.8 U	3.6	1.9 U	5.0 J Z	1.9 U	7.8 J S	1.9 U
Aroclor 1254	ug/kg	0.67 J Z	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 5460	ug/kg	3.5 U	4.3	3.7 U	17 U	3.7 U	11 J S	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	15	3.7 U	17 U	3.7 U	3.4 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	8.8 U	1.9 U	1.7 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.4 U	3.7 U	17 U	3.7 U	3.4 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-133-SA5DN-SS-0.0-0.5	SL-133-SA5DN-SB-4.0-5.0	SL-134-SA5DN-SS-0.0-0.5	SL-135-SA5DN-SS-0.0-0.5	SL-136-SA5DN-SS-0.0-0.5	SL-137-SA5DN-SS-0.0-0.5	SL-138-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	05/25/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DX097	DX089	DX097	DX097	DX097	DX097	DX097
Start Depth		0	4	0	0	0	0	0
End Depth		0.5	5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.03 U B	0.0585 J Z	1.03 U B	1.00 U B	1.00 U B	1.00 U B	1.03 U B
1,2,3,7,8,9-HxCDD	ng/kg	1.74 J Z	5.57 U B, Z	2.38 J Z	2.12 J Z	1.38 J Z	0.904 J Z	1.16 J Z
OCDD	ng/kg	1680	6.10 J Z	3440	2530	1110	449	592 J Q
1,2,3,4,6,7,8-HpCDD	ng/kg	71.8	5.57 U B, Z	119	96.2	50.4	26.6	31.6
OCDF	ng/kg	23.9	11.1 U B, Z	25.7	27	15.8	7.87 J Z	7.72 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.717 J Z	5.57 U B, Z	0.926 J Z	0.800 J Z	0.491 J Z	0.375 J Z	0.467 J Z
1,2,3,7,8-PeCDD	ng/kg	0.413 J Z	5.57 U B, Z	0.524 J Z	0.440 J Z	0.399 J Z	0.331 J Z	0.307 J Z
2,3,7,8-TCDF	ng/kg	1.03 U B	1.11 U B, Z	1.03 U B	1.00 U B	0.0924 J Z	0.172 J Z	1.03 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	5.13 U B	5.57 U B, Z	5.16 U B	0.515 J Z	5.02 U B	5.00 U B	5.13 UJ B, FD
2,3,4,7,8-PeCDF	ng/kg	5.13 U B	5.57 U B, Z	1.26 J Z	0.332 J Z	0.396 J Z	0.422 J Z	5.13 UJ B, FD
1,2,3,7,8-PeCDF	ng/kg	0.250 J Z	5.57 U B, Z	0.402 J Z	0.130 J Z	0.481 J Z	0.586 J Z	0.231 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.190 J Z	5.57 U B, Z	0.532 J Z	0.292 J Z	0.261 J Z	0.301 J Z	0.171 J FD, Z
1,2,3,6,7,8-HxCDD	ng/kg	2.44 J Z	5.57 U B, Z	3.89 J Z	3.20 J Z	1.87 J Z	0.976 J Z	1.18 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.274 J Z	5.57 U B, Z	1.03 J Z	0.356 J Z	0.289 J Z	0.279 J Z	0.166 J FD, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	6.51	5.57 U B, Z	7.12	7.46	3.99 J Z	2.72 J Z	2.55 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.485 J Z	5.57 U B, Z	0.713 J Z	0.695 J Z	0.564 J Z	0.525 J Z	0.236 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.13 U B	5.57 U B, Z	5.16 U B	5.00 U B	0.407 J Z	0.351 J Z	5.13 UJ B, FD
Aroclor 1260	ug/kg	1.1 J Z	1.9 U	1.8 U	1.2 J Z	1.7 U	2.6	2.1 J FD, Z
Aroclor 1254	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 1268	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 1221	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 5460	ug/kg	1.3 J Z	3.7 U	3.4 U	3.2 J Z	3.4 U	3.7	5.8 J FD, Z
Aroclor 1232	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 5442	ug/kg	3.4 U	3.7 U	3.4 U	3.4 U	3.4 U	3.4 U	17 U
Aroclor 1248	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 1016	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 1262	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 1242	ug/kg	1.7 U	1.9 U	1.8 U	1.7 U	1.7 U	1.7 U	8.7 U
Aroclor 5432	ug/kg	3.4 U	3.7 U	3.4 U	3.4 U	3.4 U	3.4 U	17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-139-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SB-2.0-3.0	SL-140-SA5DN-SS-0.0-0.5	SL-140-SA5DN-SB-2.0-3.0	SL-141-SA5DN-SS-0.0-0.5	SL-141-SA5DN-SB-4.0-5.0	SL-142-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	05/24/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011
SDG		DX097	DX089	DX097	DX089	DX097	DX106	DX097
Start Depth		0	2	0	2	0	4	0
End Depth		0.5	3	0.5	3	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.990 U B	1.11 U	1.01 U B	1.07 U	0.212 J Z	0.0490 J Z	1.04 U B
1,2,3,7,8,9-HxCDD	ng/kg	0.852 J Z	0.397 J Z	3.18 J Z	5.34 U B, Z	8.52	1.23 J Z	3.05 J Z
OCDD	ng/kg	139	88.1	4330 J *#	4.56 J Z	4790 J *#	598	1710
1,2,3,4,6,7,8-HpCDD	ng/kg	11.5	8.13	159	5.34 U B, Z	353	57.5	135
OCDF	ng/kg	3.22 J Z	2.06 J Z	40.5	10.7 U B, Z	117	18	43.2
1,2,3,4,7,8-HxCDD	ng/kg	0.235 J Z	0.123 J Z	1.30 J Z	5.34 U B, Z	4.04 J Z	0.514 J Z	1.34 J Z
1,2,3,7,8-PeCDD	ng/kg	0.205 J Z	5.53 U B, Z	0.662 J Z	5.34 U B, Z	1.88 J Z	0.260 J Z	0.704 J Z
2,3,7,8-TCDF	ng/kg	0.990 U B	1.11 U	0.390 J Z	1.07 U B, Z	0.811 J Z	0.241 J Z	0.457 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	4.95 U B	5.53 U B, Z	0.882 J Z	5.34 U B, Z	5.45	1.41 J Z	2.13 J Z
2,3,4,7,8-PeCDF	ng/kg	4.95 U B	5.53 U B, Z	0.912 J Z	5.34 U B, Z	1.32 J Z	5.38 U B	0.796 J Z
1,2,3,7,8-PeCDF	ng/kg	0.234 J Z	5.53 U B, Z	2.00 J Z	5.34 U B, Z	2.79 J Z	0.511 J Z	1.14 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.181 J Z	5.53 U B, Z	0.573 J Z	5.34 U B, Z	1.77 J Z	0.453 J Z	0.758 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.762 J Z	0.389 J Z	5.58	5.34 U B, Z	14.2	2.40 J Z	5.4
2,3,4,6,7,8-HxCDF	ng/kg	0.188 J Z	5.53 U B, Z	0.639 J Z	5.34 U B, Z	2.41 J Z	0.676 J Z	1.09 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	1.30 J Z	0.784 J Z	12.4	5.34 U B, Z	39	7.33	15.6
1,2,3,4,7,8-HxCDF	ng/kg	0.226 J Z	5.53 U B, Z	1.12 J Z	5.34 U B, Z	2.24 J Z	0.480 J Z	0.931 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.481 J Z	5.53 U B, Z	0.473 J Z	5.34 U B, Z	0.832 J Z	5.38 U B	0.605 J Z
Aroclor 1260	ug/kg	1.7 U	1.9 U	1.6 J Z	1.8 U	31	1.9 U	6.2 J Z
Aroclor 1254	ug/kg	1.7 U	0.78 J Z	1.7 U	1.8 U	18 U	6	8.8 U
Aroclor 1268	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	18 U	1.9 U	8.8 U
Aroclor 1221	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	18 U	1.9 U	8.8 U
Aroclor 5460	ug/kg	3.3 U	3.7 U	3.4 U	3.5 U	30 J Z	2.0 J Z	7.4 J Z
Aroclor 1232	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	18 U	1.9 U	8.8 U
Aroclor 5442	ug/kg	3.3 U	3.7 U	3.4 U	3.5 U	35 U	3.6 U	17 U
Aroclor 1248	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	18 U	1.9 U	8.8 U
Aroclor 1016	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	18 U	1.9 U	8.8 U
Aroclor 1262	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	18 U	1.9 U	8.8 U
Aroclor 1242	ug/kg	1.7 U	1.9 U	1.7 U	1.8 U	18 U	1.9 U	8.8 U
Aroclor 5432	ug/kg	3.3 U	3.7 U	3.4 U	3.5 U	35 U	3.6 U	17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-142-SA5DN-SB-2.0-3.0	SL-143-SA5DN-SS-0.0-0.5	SL-143-SA5DN-SB-4.0-5.0	SL-144-SA5DN-SS-0.0-0.5	SL-144-SA5DN-SB-2.0-3.0	SL-145-SA5DN-SS-0.0-0.5	SL-145-SA5DN-SB-2.0-3.0
Sample Date		05/25/2011	06/02/2011	06/28/2011	06/02/2011	05/25/2011	06/02/2011	05/24/2011
SDG		DX089	DX097	DX106	DX097	DX089	DX097	DX089
Start Depth		2	0	4	0	2	0	2
End Depth		3	0.5	5	0.5	3	0.5	3
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0193 J Z	0.150 J Z	1.13 U	1.02 U B	1.08 U	1.00 U B	1.04 U
1,2,3,7,8,9-HxCDD	ng/kg	5.48 U B, Z	4.78 J Z	5.66 U B	1.23 J Z	5.40 UJ B, FD, Z	1.41 J Z	5.19 U B, Z
OCDD	ng/kg	11.0 U B, Z	2460	11.3 U B	271	10.8 UJ B, FD, Z	477	17.4
1,2,3,4,6,7,8-HpCDD	ng/kg	5.48 U B, Z	158	5.66 U B	14.9	5.40 U B, Z	28.4	1.26 J Z
OCDF	ng/kg	11.0 U B, Z	56.2	11.3 U B	4.73 J Z	10.8 UJ B, FD, Z	8.25 J Z	10.4 U B, Z
1,2,3,4,7,8-HxCDD	ng/kg	5.48 U	2.11 J Z	5.66 U	0.248 J Z	5.40 UJ FD	0.457 J Z	5.19 U B, Z
1,2,3,7,8-PeCDD	ng/kg	5.48 U B, Z	1.19 J Z	5.66 U B	0.278 J Z	5.40 UJ FD	0.342 J Z	5.19 U B, Z
2,3,7,8-TCDF	ng/kg	1.10 U	0.612 J Z	1.13 U	0.125 J Z	1.08 UJ FD	0.144 J Z	1.04 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.48 U B, Z	1.62 J Z	5.66 U B	5.12 U B	5.40 UJ B, FD, Z	5.00 U B	5.19 U B, Z
2,3,4,7,8-PeCDF	ng/kg	5.48 U B, Z	0.867 J Z	5.66 U B	0.327 J Z	5.40 UJ B, FD, Z	0.360 J Z	5.19 U B, Z
1,2,3,7,8-PeCDF	ng/kg	5.48 U B, Z	1.31 J Z	5.66 U	0.388 J Z	5.40 UJ B, FD, Z	0.353 J Z	5.19 U B, Z
1,2,3,6,7,8-HxCDF	ng/kg	5.48 U B, Z	0.923 J Z	5.66 U B	0.241 J Z	5.40 UJ B, FD, Z	0.236 J Z	5.19 U B, Z
1,2,3,6,7,8-HxCDD	ng/kg	5.48 U B, Z	6.31	5.66 U B	1.11 J Z	5.40 UJ B, FD, Z	1.45 J Z	5.19 U B, Z
2,3,4,6,7,8-HxCDF	ng/kg	5.48 U B, Z	1.06 J Z	5.66 U B	0.199 J Z	5.40 UJ B, FD, Z	0.207 J Z	5.19 U B, Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.48 U B, Z	16.5	5.66 U B	1.79 J Z	5.40 UJ B, FD, Z	2.69 J Z	5.19 U B, Z
1,2,3,4,7,8-HxCDF	ng/kg	5.48 U B, Z	1.32 J Z	5.66 U B	0.266 J Z	5.40 UJ B, FD, Z	0.296 J Z	5.19 U B, Z
1,2,3,7,8,9-HxCDF	ng/kg	5.48 U B, Z	0.937 J Z	5.66 U B	0.895 J Z	5.40 UJ B, FD, Z	0.582 J Z	5.19 U B, Z
Aroclor 1260	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1254	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5460	ug/kg	3.6 U	3.5 U	3.7 U	3.4 U	3.6 U	3.4 U	3.5 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5442	ug/kg	3.6 U	3.5 U	3.7 U	3.4 U	3.6 U	3.4 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5432	ug/kg	3.6 U	3.5 U	3.7 U	3.4 U	3.6 U	3.4 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-146-SA5DN-SB-2.0-3.0	SL-148-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SB-4.0-5.0	SL-150-SA5DN-SS-0.0-0.5	SL-150-SA5DN-SB-4.0-5.0	SL-151-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	06/01/2011	06/02/2011	07/11/2011	06/02/2011	05/24/2011	06/02/2011
SDG		DX089	DX096	DX097	DX110	DX097	DX089	DX097
Start Depth		2	0	0	4	0	4	0
End Depth		3	0.5	0.5	5	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0610 J Z	1.02 U B	1.07 U B	1.09 U	1.07 U B	0.133 J Z	1.03 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.79 U B, Z	1.42 J Z	1.40 J Z	5.44 U B	1.54 J Z	0.275 J Z	2.15 J Z
OCDD	ng/kg	11.6 U B, Z	357	226	6.19 J Z	377	10.7 U B, Z	134
1,2,3,4,6,7,8-HpCDD	ng/kg	5.79 U B, Z	23.1	13.7	5.44 U B	24.1	5.37 U B, Z	8.25
OCDF	ng/kg	11.6 U B, Z	7.55 J Z	4.70 J Z	10.9 U B	8.38 J Z	10.7 U B, Z	5.43 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.79 U B, Z	0.373 J Z	0.243 J Z	5.44 U	0.355 J Z	0.256 J Z	5.13 U B
1,2,3,7,8-PeCDD	ng/kg	5.79 U B, Z	0.305 J Z	0.247 J Z	5.44 U	0.332 J Z	0.468 J Z	0.194 J Z
2,3,7,8-TCDF	ng/kg	1.16 U B, Z	0.345 J Z	0.179 J Z	1.09 U	0.387 J Z	0.163 J Z	1.03 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	5.79 U B, Z	5.10 U B	5.34 U B	5.44 U	5.35 U B	5.37 U B, Z	5.13 U B
2,3,4,7,8-PeCDF	ng/kg	5.79 U B, Z	0.579 J Z	0.394 J Z	5.44 U B	0.564 J Z	0.483 J Z	5.13 U B
1,2,3,7,8-PeCDF	ng/kg	5.79 U B, Z	0.447 J Z	0.569 J Z	0.0310 J Z	0.688 J Z	0.563 J Z	0.168 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.79 U B, Z	0.267 J Z	0.223 J Z	5.44 U B	0.384 J Z	0.342 J Z	0.175 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.79 U B, Z	1.40 J Z	1.09 J Z	5.44 U B	1.49 J Z	0.276 J Z	1.60 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.79 U B, Z	0.272 J Z	0.210 J Z	5.44 U B	0.324 J Z	5.37 U B, Z	5.13 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.79 U B, Z	2.70 J Z	1.72 J Z	5.44 U B	3.61 J Z	5.37 U B, Z	1.58 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.79 U B, Z	0.470 J Z	0.279 J Z	5.44 U B	0.610 J Z	0.315 J Z	5.13 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.79 U B, Z	0.936 J Z	1.32 J Z	5.44 U B	1.02 J Z	5.37 U B, Z	0.664 J Z
Aroclor 1260	ug/kg	2.0 U	2.1	1.7 J Z	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1254	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1268	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	3.9 U	2.9 J Z	3.4 J Z	3.6 U	3.5 U	3.6 U	3.4 U
Aroclor 1232	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.9 U	3.5 U	3.6 U	3.6 U	3.5 U	3.6 U	3.4 U
Aroclor 1248	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.9 U	3.5 U	3.6 U	3.6 U	3.5 U	3.6 U	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-152-SA5DN-SS-0.0-0.5	SL-152-SA5DN-SB-2.5-3.5	SL-153-SA5DN-SS-0.0-0.5	SL-153-SA5DN-SB-4.0-5.0	SL-153-SA5DN-SB-7.0-8.0	SL-154-SA5DN-SS-0.0-0.5	SL-154-SA5DN-SB-4.0-5.0
Sample Date		06/03/2011	06/29/2011	06/03/2011	08/08/2011	08/08/2011	06/03/2011	06/29/2011
SDG		DX098	DX106	DX098	DX126	DX126	DX098	DX106
Start Depth		0	2.5	0	4	7	0	4
End Depth		0.5	3.5	0.5	5	8	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0200 J Z	1.06 U	1.06 U	1.13 U	1.11 U	0.0210 J Z	0.0636 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.340 J Z	0.291 J Z	0.728 J Z	0.383 J Z	5.55 U	1.12 J Z	5.45 U B
OCDD	ng/kg	84.1	10.6 U B	77.8	11.3 U B	11.1 U B	199	10.9 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	6.28	5.28 U B	5.99	5.67 U B	5.55 U B	12	5.45 U B
OCDF	ng/kg	2.47 J Z	10.6 U	2.24 J Z	11.3 U	0.141 J Z	8.05 J Z	10.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.136 J Z	5.28 U	0.0751 J Z	5.67 U	0.0970 J Z	0.151 J Z	0.0935 J Z
1,2,3,7,8-PeCDD	ng/kg	5.35 U B	0.245 J Z	5.32 U B	5.67 U	5.55 U	0.204 J Z	5.45 U B
2,3,7,8-TCDF	ng/kg	0.0756 J Z	1.06 U	0.0465 J Z	1.13 U	1.11 U	0.0525 J Z	0.0308 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.35 U B	5.28 U	5.32 U B	5.67 U	5.55 U	5.44 U B	5.45 U B
2,3,4,7,8-PeCDF	ng/kg	5.35 U B	5.28 U B	5.32 U B	5.67 U	0.0619 J Z	5.44 U B	5.45 U B
1,2,3,7,8-PeCDF	ng/kg	0.136 J Z	0.177 J Z	0.159 J Z	0.109 J Z	0.0512 J Z	0.298 J Z	0.180 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.35 U B	0.186 J Z	5.32 U B	5.67 U	5.55 U	5.44 U B	5.45 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.351 J Z	0.275 J Z	0.551 J Z	0.271 J Z	5.55 U B	0.867 J Z	0.109 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.160 J Z	5.28 U B	5.32 U B	5.67 U B	5.55 U	5.44 U B	5.45 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.968 J Z	5.28 U B	0.756 J Z	5.67 U B	5.55 U B	1.86 J Z	5.45 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.220 J Z	0.140 J Z	5.32 U B	5.67 U	5.55 U B	0.220 J Z	5.45 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.35 U B	5.28 U	0.556 J Z	0.849 J Z	0.149 J Z	0.989 J Z	5.45 U B
Aroclor 1260	ug/kg	1.9 J C	1.9 U	1.8 UJ C	2.0 U	1.9 U	0.70 J Z, C, *#	1.9 U
Aroclor 1254	ug/kg	1.8 UJ C	1.9 U	1.8 UJ C	2.0 U	1.9 U	1.9 UJ C	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	1.3 J L, Z	3.7 U	3.6 U	3.8 U	3.8 U	3.6 U	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.6 U	3.8 U	3.8 U	3.6 U	3.7 U
Aroclor 1248	ug/kg	1.8 UJ C	1.9 U	1.8 UJ C	2.0 U	1.9 U	1.9 UJ C	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 UJ C	1.9 U	1.8 UJ C	2.0 U	1.9 U	1.9 UJ C	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.6 U	3.8 U	3.8 U	3.6 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-154-SA5DN-SB-9.0-10.0	SL-155-SA5DN-SS-0.0-0.5	SL-155-SA5DN-SB-4.0-5.0	SL-155-SA5DN-SB-9.0-10.0	SL-156-SA5DN-SS-0.0-0.5	SL-156-SA5DN-SB-4.0-5.0	SL-156-SA5DN-SB-9.0-10.0
Sample Date		06/29/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011	07/08/2011
SDG		DX106	DX098	DX109	DX109	DX098	DX109	DX109
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0563 J Z	0.0404 J FD, Z	1.13 U	1.17 U	0.0667 J Z	1.14 U	1.13 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.64 U B	1.08 J Z	5.63 U B	5.87 U B	1.44 J Z	5.69 U B	5.67 U B
OCDD	ng/kg	11.3 U B	186	11.3 U B	11.7 U B	221	11.4 U B	11.3 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.64 U B	14.2	5.63 U B	5.87 U B	18.9	5.69 U B	5.67 U B
OCDF	ng/kg	11.3 U B	6.88 J Z	11.3 U B	11.7 U B	11.6	11.4 U B	11.3 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0564 J Z	0.287 J Z	5.63 U	0.0265 J Z	0.387 J Z	0.0332 J Z	0.0720 J Z
1,2,3,7,8-PeCDD	ng/kg	5.64 U B	0.203 J Z	5.63 U	5.87 U	0.403 J Z	0.0578 J Z	0.116 J Z
2,3,7,8-TCDF	ng/kg	1.13 U	0.169 J Z	1.13 U	1.17 U	0.283 J Z	1.14 U	0.0633 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.64 U B	5.16 U B	5.63 U B	5.87 U B	0.409 J Z	5.69 U	5.67 U B
2,3,4,7,8-PeCDF	ng/kg	5.64 U B	0.318 J Z	5.63 U B	5.87 U B	0.540 J Z	5.69 U B	5.67 U B
1,2,3,7,8-PeCDF	ng/kg	0.136 J Z	0.327 J Z	5.63 U B	5.87 U	0.685 J Z	5.69 U B	0.178 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.64 U B	0.200 J Z	5.63 U B	5.87 U	0.410 J Z	5.69 U B	5.67 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.0826 J Z	1.05 J Z	5.63 U B	5.87 U	1.36 J Z	5.69 U B	5.67 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.64 U B	0.225 J Z	5.63 U B	5.87 U B	0.385 J Z	5.69 U B	5.67 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.64 U B	2.09 J Z	5.63 U B	5.87 U B	3.31 J Z	5.69 U B	5.67 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.64 U B	0.294 J Z	5.63 U B	5.87 U B	0.570 J Z	5.69 U	5.67 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.64 U B	1.04 J Z	5.63 U B	5.87 U B	1.49 J Z	5.69 U B	5.67 U B
Aroclor 1260	ug/kg	2.0 U	1.6 J Z, C	9.7 U	10 U	1.2 J Z, C	9.8 U	9.7 U
Aroclor 1254	ug/kg	2.0 U	1.8 UJ C	9.7 U	10 U	1.9 UJ C	9.8 U	9.7 U
Aroclor 1268	ug/kg	2.0 U	1.8 U	9.7 U	10 U	1.9 U	9.8 U	9.7 U
Aroclor 1221	ug/kg	2.0 U	1.8 U	9.7 U	10 U	1.9 U	9.8 U	9.7 U
Aroclor 5460	ug/kg	3.8 U	3.5 J L	19 U	19 U	2.3 J L, Z	19 U	19 U
Aroclor 1232	ug/kg	2.0 U	1.8 U	9.7 U	10 U	1.9 U	9.8 U	9.7 U
Aroclor 5442	ug/kg	3.8 U	3.5 U	19 U	19 U	3.7 U	19 U	19 U
Aroclor 1248	ug/kg	2.0 U	1.8 UJ C	9.7 U	10 U	1.9 UJ C	9.8 U	9.7 U
Aroclor 1016	ug/kg	2.0 U	1.8 U	9.7 U	10 U	1.9 U	9.8 U	9.7 U
Aroclor 1262	ug/kg	2.0 U	1.8 U	9.7 U	10 U	1.9 U	9.8 U	9.7 U
Aroclor 1242	ug/kg	2.0 U	1.8 UJ C	9.7 U	10 U	1.9 UJ C	9.8 U	9.7 U
Aroclor 5432	ug/kg	3.8 U	3.5 U	19 U	19 U	3.7 U	19 U	19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-157-SA5DN-SS-0.0-0.5	SL-157-SA5DN-SB-4.0-5.0	SL-157-SA5DN-SB-9.0-10.0	SL-158-SA5DN-SS-0.0-0.5	SL-158-SA5DN-SB-4.0-5.0	SL-158-SA5DN-SB-9.0-10.0	SL-159-SA5DN-SS-0.0-0.5
Sample Date		06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011
SDG		DX098	DX109	DX109	DX098	DX109	DX109	DX098
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0441 J Z	1.13 U B	1.16 U	0.0223 J Z	1.11 U B	1.13 U	0.0273 J Z
1,2,3,7,8,9-HxCDD	ng/kg	1.03 J Z	5.64 U B	5.81 U B	0.866 J Z	5.57 U B	5.67 U B	1.13 J Z
OCDD	ng/kg	138	11.3 U B	11.6 U B	106	11.1 U B	11.3 U B	112
1,2,3,4,6,7,8-HpCDD	ng/kg	10	5.64 U B	5.81 U B	8.06	5.57 U B	5.67 U B	8.36
OCDF	ng/kg	5.00 J Z	11.3 U B	11.6 U B	4.03 J Z	11.1 U B	11.3 U B	4.96 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.225 J Z	0.0551 J Z	0.0557 J Z	0.155 J Z	0.0746 J Z	0.0233 J Z	0.132 J Z
1,2,3,7,8-PeCDD	ng/kg	0.342 J Z	0.167 J Z	0.0603 J Z	0.196 J Z	0.0788 J Z	0.0303 J Z	0.183 J Z
2,3,7,8-TCDF	ng/kg	0.290 J Z	0.0535 J Z	1.16 U	0.259 J Z	1.11 U	0.0351 J Z	0.532 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.40 U B	5.64 U B	5.81 U B	5.37 U B	5.57 U B	5.67 U B	5.53 U B
2,3,4,7,8-PeCDF	ng/kg	0.513 J Z	5.64 U B	5.81 U B	0.388 J Z	5.57 U B	5.67 U B	0.575 J Z
1,2,3,7,8-PeCDF	ng/kg	0.478 J Z	0.224 J Z	5.81 U B	0.330 J Z	5.57 U B	5.67 U B	0.925 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.280 J Z	5.64 U B	5.81 U B	0.202 J Z	5.57 U B	5.67 U B	0.235 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.865 J Z	5.64 U B	5.81 U B	0.751 J Z	5.57 U B	5.67 U B	0.958 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.270 J Z	5.64 U B	5.81 U B	0.199 J Z	5.57 U B	5.67 U B	0.189 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	1.61 J Z	5.64 U B	5.81 U B	1.36 J Z	5.57 U B	5.67 U B	1.58 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.400 J Z	5.64 U B	5.81 U B	0.297 J Z	5.57 U B	5.67 U B	0.475 J Z
1,2,3,7,8,9-HxCDF	ng/kg	1.21 J Z	5.64 U B	5.81 U B	1.07 J Z	0.362 J Z	5.67 U B	1.35 J Z
Aroclor 1260	ug/kg	1.3 J Z, C	9.7 U	10 U	1.1 J Z, C	9.5 U	9.8 U	2.4 J S, C
Aroclor 1254	ug/kg	1.9 UJ C	9.7 U	10 U	1.8 UJ C	9.5 U	9.8 U	1.9 UJ C
Aroclor 1268	ug/kg	1.9 U	9.7 U	10 U	1.8 U	9.5 U	9.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	9.7 U	10 U	1.8 U	9.5 U	9.8 U	1.9 U
Aroclor 5460	ug/kg	1.5 J L, Z	19 U	19 U	1.8 J L, Z	19 U	19 U	3.4 J S, L, Z
Aroclor 1232	ug/kg	1.9 U	9.7 U	10 U	1.8 U	9.5 U	9.8 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	19 U	19 U	3.6 U	19 U	19 U	3.7 U
Aroclor 1248	ug/kg	1.9 UJ C	9.7 U	10 U	1.8 UJ C	9.5 U	9.8 U	1.9 UJ C
Aroclor 1016	ug/kg	1.9 U	9.7 U	10 U	1.8 U	9.5 U	9.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	9.7 U	10 U	1.8 U	9.5 U	9.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 UJ C	9.7 U	10 U	1.8 UJ C	9.5 U	9.8 U	1.9 UJ C
Aroclor 5432	ug/kg	3.7 U	19 U	19 U	3.6 U	19 U	19 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-159-SA5DN-SB-4.0-5.0	SL-159-SA5DN-SB-9.0-10.0	SL-160-SA5DN-SS-0.0-0.5	SL-160-SA5DN-SB-4.0-5.0	SL-162-SA5DN-SS-0.0-0.5	SL-162-SA5DN-SB-4.0-5.0	SL-162-SA5DN-SB-9.0-10.0
Sample Date		07/08/2011	07/08/2011	06/03/2011	08/02/2011	06/03/2011	08/02/2011	08/02/2011
SDG		DX109	DX109	DX098	DX123	DX098	DX123	DX123
Start Depth		4	9	0	4	0	4	9
End Depth		5	10	0.5	5	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.15 U	0.0348 J Z	0.0193 J Z	1.11 U B	0.0410 J Z	1.10 U	1.14 U B
1,2,3,7,8,9-HxCDD	ng/kg	0.243 J Z	5.66 U B	0.639 J Z	5.54 U B	1.26 J Z	5.50 U B	5.69 U B
OCDD	ng/kg	11.5 U B	11.3 U B	37.1	11.1 U B	96.2	11.0 U B	11.4 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.73 U B	5.66 U B	3.25 J Z	5.54 U B	8.86	5.50 U B	5.69 U B
OCDF	ng/kg	11.5 U B	11.3 U B	1.75 J Z	11.1 U B	2.99 J Z	11.0 U B	11.4 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.73 U	5.66 U	0.0618 J Z	5.54 U	0.197 J Z	5.50 U	5.69 U
1,2,3,7,8-PeCDD	ng/kg	5.73 U	5.66 U B	5.16 U B	5.54 U B	0.242 J Z	5.50 U B	5.69 U
2,3,7,8-TCDF	ng/kg	1.15 U	1.13 U	1.03 U	1.11 U B	0.252 J Z	1.10 U	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.73 U B	5.66 U B	5.16 U B	5.54 U B	5.52 U B	5.50 U B	5.69 U B
2,3,4,7,8-PeCDF	ng/kg	5.73 U B	5.66 U B	5.16 U B	5.54 U B	0.358 J Z	5.50 U B	5.69 U B
1,2,3,7,8-PeCDF	ng/kg	5.73 U B	5.66 U B	0.181 J Z	5.54 U B	0.238 J Z	5.50 U B	5.69 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.73 U B	5.66 U B	5.16 U B	5.54 U B	0.197 J Z	5.50 U B	5.69 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.167 J Z	5.66 U B	0.437 J Z	5.54 U B	1.01 J Z	5.50 U B	5.69 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.73 U B	5.66 U B	5.16 U B	5.54 U B	0.179 J Z	5.50 U B	5.69 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.73 U B	5.66 U B	0.511 J Z	5.54 U B	1.10 J Z	5.50 U B	5.69 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.73 U	5.66 U B	5.16 U B	5.54 U B	0.348 J Z	5.50 U B	5.69 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.541 J Z	0.117 J Z	0.822 J Z	5.54 U B	1.17 J Z	0.311 J Z	5.69 U B
Aroclor 1260	ug/kg	9.8 U	9.8 U	1.8 UJ C	1.9 U	1.3 J Z, C, *#	1.9 U	2.0 U
Aroclor 1254	ug/kg	9.8 U	9.8 U	1.8 UJ C	1.9 U	1.9 UJ C	0.55 J Z	2.0 U
Aroclor 1268	ug/kg	9.8 U	9.8 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	9.8 U	9.8 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	19 U	19 U	3.4 U	3.7 U	1.9 J L, Z	3.7 U	3.8 U
Aroclor 1232	ug/kg	9.8 U	9.8 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	19 U	19 U	3.4 U	3.7 U	3.7 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	9.8 U	9.8 U	1.8 UJ C	1.9 U	1.9 UJ C	1.9 U	2.0 U
Aroclor 1016	ug/kg	9.8 U	9.8 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	9.8 U	9.8 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	9.8 U	9.8 U	1.8 UJ C	1.9 U	1.9 UJ C	1.9 U	2.0 U
Aroclor 5432	ug/kg	19 U	19 U	3.4 U	3.7 U	3.7 U	3.7 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-164-SA5DN-SS-0.0-0.5	SL-164-SA5DN-SB-4.0-5.0	SL-164-SA5DN-SB-9.0-10.0	SL-165-SA5DN-SS-0.0-0.5	SL-165-SA5DN-SB-4.0-5.0	SL-165-SA5DN-SB-9.0-10.0	SL-166-SA5DN-SS-0.0-0.5
Sample Date		05/26/2011	07/07/2011	07/07/2011	05/26/2011	06/29/2011	06/29/2011	06/03/2011
SDG		DX093	DX109	DX109	DX093	DX106	DX106	DX098
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U B	1.14 U	1.14 U	1.07 U B	1.09 U	0.0546 J Z	1.09 U
1,2,3,7,8,9-HxCDD	ng/kg	0.854 J Z	5.72 U B	5.69 U B	1.06 J Z	5.47 U B	0.431 J Z	0.558 J Z
OCDD	ng/kg	138	11.4 U B	11.4 U B	834	3.79 J Z	232	281
1,2,3,4,6,7,8-HpCDD	ng/kg	11.7	5.72 U B	5.69 U B	74.4	5.47 U B	25.7	23.1
OCDF	ng/kg	5.29 J Z	11.4 U B	11.4 U B	96.7	10.9 U B	30.1	11.9
1,2,3,4,7,8-HxCDD	ng/kg	0.191 J Z	5.72 U	0.0264 J Z	0.622 J Z	0.0388 J Z	0.171 J Z	0.204 J Z
1,2,3,7,8-PeCDD	ng/kg	5.42 U B	5.72 U	5.69 U	0.345 J Z	5.47 U	0.191 J Z	0.163 J Z
2,3,7,8-TCDF	ng/kg	0.386 J Z	1.14 U	1.14 U	0.524 J Z	1.09 U	1.06 U	0.659 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.42 U B	5.72 U B	5.69 U B	1.04 J Z	5.47 U B	0.343 J Z	5.43 U B
2,3,4,7,8-PeCDF	ng/kg	0.804 J Z	5.72 U B	5.69 U B	0.749 J Z	5.47 U B	0.548 J Z	0.571 J Z
1,2,3,7,8-PeCDF	ng/kg	0.531 J Z	5.72 U	5.69 U B	1.86 J Z	5.47 U B	0.359 J Z	0.602 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.261 J Z	5.72 U B	5.69 U B	0.631 J Z	5.47 U B	0.276 J Z	0.228 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.881 J Z	5.72 U B	5.69 U B	2.35 J Z	5.47 U B	0.850 J Z	0.807 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.419 J Z	5.72 U B	5.69 U B	0.753 J Z	5.47 U B	0.386 J Z	0.271 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	1.94 J Z	5.72 U B	5.69 U B	23.2	5.47 U B	7.25	3.44 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.494 J Z	5.72 U B	5.69 U B	0.617 J Z	5.47 U B	0.341 J Z	0.611 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.605 J Z	5.72 U B	5.69 U B	5.33 U B	5.47 U B	5.30 U B	0.296 J Z
Aroclor 1260	ug/kg	1.4 J Z	2.0 U	1.9 U	0.45 J Z	1.9 U	1.3 J Z	3.0 J C
Aroclor 1254	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 UJ C
Aroclor 1268	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	7.7	3.8 U	3.8 U	3.5 U	3.7 U	3.5 U	4.6 J L
Aroclor 1232	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	3.8 U	3.8 U	3.5 U	3.7 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 UJ C
Aroclor 1016	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 UJ C
Aroclor 5432	ug/kg	3.6 U	3.8 U	3.8 U	3.5 U	3.7 U	3.5 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-166-SA5DN-SB-4.0-5.0	SL-166-SA5DN-SB-9.0-10.0	SL-167-SA5DN-SB-4.0-5.0	SL-167-SA5DN-SB-9.0-10.0	SL-168-SA5DN-SB-4.0-5.0	SL-168-SA5DN-SB-9.0-10.0	SL-169-SA5DN-SB-4.0-5.0
Sample Date		07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011
SDG		DX109	DX109	DX109	DX109	DX109	DX109	DX109
Start Depth		4	9	4	9	4	9	4
End Depth		5	10	5	10	5	10	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.14 UJ B, FD	1.16 U B	1.15 U	1.16 U B	1.17 U B	1.12 U B	1.15 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.71 U B	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
OCDD	ng/kg	11.4 U B	11.6 U B	11.5 U B	11.6 U B	11.7 U B	8.11 J Z	11.5 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.71 U B	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
OCDF	ng/kg	11.4 UJ B, FD	11.6 U B	11.5 U B	11.6 U B	11.7 U B	11.2 U B	11.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.71 U	0.0356 J Z	5.75 U	0.127 J Z	0.137 J Z	0.103 J Z	5.75 U
1,2,3,7,8-PeCDD	ng/kg	5.71 UJ FD	0.0663 J Z	5.75 U	0.148 J Z	0.281 J Z	0.215 J Z	0.0892 J Z
2,3,7,8-TCDF	ng/kg	1.14 U	0.0302 J Z	1.15 U	0.0425 J Z	0.0335 J Z	0.0326 J Z	0.0301 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.71 U B	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
2,3,4,7,8-PeCDF	ng/kg	5.71 UJ B, FD	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
1,2,3,7,8-PeCDF	ng/kg	5.71 UJ B, FD	5.78 U B	5.75 U B	5.79 U B	0.347 J Z	0.249 J Z	5.75 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.71 UJ B, FD	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.71 UJ FD	5.78 U B	5.75 U B	5.79 U B	5.87 U B	0.186 J Z	5.75 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.71 UJ B, FD	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.71 UJ B, FD	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.71 U B	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.71 UJ B, FD	5.78 U B	5.75 U B	5.79 U B	5.87 U B	5.62 U B	5.75 U B
Aroclor 1260	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1254	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.8 U	4.0 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.8 U	4.0 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.8 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-169-SA5DN-SB-7.5-8.5	SL-170-SA5DN-SS-0.0-0.5	SL-170-SA5DN-SB-4.0-5.0	SL-170-SA5DN-SB-9.0-10.0	SL-171-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SB-4.0-5.0
Sample Date		07/07/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	05/26/2011	07/28/2011
SDG		DX109	DX093	DX123	DX123	DX093	DX093	DX121
Start Depth		7.5	0	4	9	0	0	4
End Depth		8.5	0.5	5	10	0.5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U	1.00 U B	1.08 U B	1.11 U B	0.220 J Z	1.06 U B	0.0186 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.63 U B	0.206 J Z	5.40 U B	5.53 U B	3.49 J Z	0.376 J Z	0.467 J Z
OCDD	ng/kg	11.3 U B	79.2	357	10.4 J Z	363	100	155
1,2,3,4,6,7,8-HpCDD	ng/kg	5.63 U B	4.31 J Z	20.9	5.53 U B	58.7	8.85	8.79
OCDF	ng/kg	11.3 U B	2.27 J Z	4.55 J Z	11.1 U B	10.5	2.65 J Z	1.88 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.63 U	5.00 U B	5.40 U B	5.53 U B	1.74 J Z	5.31 U B	0.158 J Z
1,2,3,7,8-PeCDD	ng/kg	5.63 U	0.273 J Z	5.40 U B	5.53 U B	1.88 J Z	5.31 U B	5.53 U B
2,3,7,8-TCDF	ng/kg	1.13 U	0.0809 J Z	1.08 U B	1.11 U B	0.225 J Z	0.0468 J Z	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.63 U B	5.00 U B	5.40 U B	5.53 U B	5.24 U B	5.31 U B	5.53 U B
2,3,4,7,8-PeCDF	ng/kg	5.63 U B	5.00 U B	5.40 U B	5.53 U B	1.07 J Z	5.31 U B	5.53 U B
1,2,3,7,8-PeCDF	ng/kg	5.63 U B	0.287 J Z	5.40 U B	5.53 U B	0.324 J Z	5.31 U B	0.190 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.63 U B	0.229 J Z	5.40 U B	5.53 U B	0.729 J Z	0.110 J Z	0.0721 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.63 U B	0.286 J Z	0.815 J Z	5.53 U B	5.35	0.430 J Z	0.413 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.63 U B	5.00 U B	5.40 U B	5.53 U B	0.975 J Z	5.31 U B	5.53 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.63 U B	0.625 J Z	1.94 J Z	5.53 U B	5.57	1.20 J Z	0.756 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.63 U B	0.314 J Z	5.40 U B	5.53 U B	0.783 J Z	5.31 U B	5.53 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.63 U B	5.00 U B	5.40 U B	5.53 U B	5.24 U	5.31 U B	0.320 J Z
Aroclor 1260	ug/kg	1.9 U	1.7 J Z	4.1	2.0 U	2.5	1.1 J Z	1.9 U
Aroclor 1254	ug/kg	1.9 U	3.4	5.5	0.89 J Z	4.1	1.8 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	1.8 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	1.8 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.8 U	3.4 U	6.8	3.8 U	5.1	2.8 J Z	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	1.8 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.4 U	3.6 U	3.8 U	3.5 U	3.6 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	1.8 U	1.8 U	1.1 J Z
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	1.8 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	1.8 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	2.0 U	1.8 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.4 U	3.6 U	3.8 U	3.5 U	3.6 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-172-SA5DN-SB-9.0-10.0	SL-173-SA5DN-SS-0.0-0.5	SL-173-SA5DN-SB-4.0-5.0	SL-173-SA5DN-SB-9.0-10.0	SL-174-SA5DN-SS-0.0-0.5	SL-174-SA5DN-SB-4.0-5.0	SL-174-SA5DN-SB-9.0-10.0
Sample Date		07/28/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	07/29/2011	07/29/2011
SDG		DX121	DX093	DX123	DX123	DX093	DX121	DX121
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0220 J Z	1.05 U B	1.13 U	1.14 U	1.02 U B	0.0361 J Z	0.0512 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.201 J Z	1.08 J Z	5.67 U B	5.68 U B	0.646 J Z	5.65 U B	0.144 J Z
OCDD	ng/kg	103	340	8.99 J Z	7.55 J Z	207	50.9	60.7
1,2,3,4,6,7,8-HpCDD	ng/kg	5.67 J Z	36	5.67 U B	5.68 U B	21.9	5.57 J Z	6.46
OCDF	ng/kg	1.98 J Z	15.6	11.3 U B	11.4 U B	8.25 J Z	1.93 J Z	2.06 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0893 J Z	0.460 J Z	5.67 U	5.68 U B	0.288 J Z	0.0561 J Z	0.0715 J Z
1,2,3,7,8-PeCDD	ng/kg	5.85 U B	0.230 J Z	5.67 U B	5.68 U B	5.10 U B	5.65 U B	5.68 U B
2,3,7,8-TCDF	ng/kg	1.17 U	0.380 J Z	1.13 U B	1.14 U	0.181 J Z	1.13 U	0.0336 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.85 U B	5.26 U B	5.67 U B	5.68 U B	5.10 U B	5.65 U B	5.68 U B
2,3,4,7,8-PeCDF	ng/kg	5.85 U B	0.898 J Z	5.67 U B	5.68 U B	0.407 J Z	5.65 U B	5.68 U B
1,2,3,7,8-PeCDF	ng/kg	5.85 U B	5.26 U B	5.67 U B	5.68 U	0.465 J Z	5.65 U B	5.68 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.85 U B	0.676 J Z	5.67 U B	5.68 U B	0.311 J Z	0.0649 J Z	0.0851 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.224 J Z	1.80 J Z	5.67 U B	5.68 U B	1.09 J Z	0.230 J Z	0.296 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.85 U B	0.665 J Z	5.67 U B	5.68 U B	0.376 J Z	5.65 U B	5.68 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.732 J Z	5.47	5.67 U B	5.68 U B	3.48 J Z	0.873 J Z	0.989 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.85 U B	0.480 J Z	5.67 U B	5.68 U B	0.408 J Z	5.65 U B	0.101 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.85 U B	5.26 U B	5.67 U B	5.68 U B	5.10 U B	5.65 U B	5.68 U B
Aroclor 1260	ug/kg	2.0 U	2.0 J S	1.9 U	1.9 U	1.1 J Z	2.0 U	2.0 U
Aroclor 1254	ug/kg	1.2 J Z	1.8 UJ S	0.65 J Z	0.67 J Z	1.8 U	2.0 U	0.82 J Z
Aroclor 1268	ug/kg	2.0 U	1.8 UJ S	1.9 U	1.9 U	1.8 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.8 UJ S	1.9 U	1.9 U	1.8 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.9 U	2.0 J S, Z	3.8 U	3.8 U	3.4 U	3.8 U	3.8 U
Aroclor 1232	ug/kg	2.0 U	1.8 UJ S	1.9 U	1.9 U	1.8 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.9 U	3.5 UJ S	3.8 U	3.8 U	3.4 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.8 UJ S	1.9 U	1.9 U	1.8 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.8 UJ S	1.9 U	1.9 U	1.8 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.8 UJ S	1.9 U	1.9 U	1.8 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.8 UJ S	1.9 U	1.9 U	1.8 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.9 U	3.5 UJ S	3.8 U	3.8 U	3.4 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-175-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SB-4.0-5.0	SL-175-SA5DN-SB-9.0-10.0	SL-176-SA5DN-SS-0.0-0.5	SL-176-SA5DN-SB-4.0-5.0	SL-176-SA5DN-SB-9.0-10.0	SL-179-SA5DN-SS-0.0-0.5
Sample Date		05/26/2011	08/01/2011	08/01/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011
SDG		DX093	DX123	DX123	DX093	DX123	DX123	DX093
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.04 U B	1.07 U B	1.13 U B	1.03 U B	1.08 U B	1.12 U B	1.05 U B
1,2,3,7,8,9-HxCDD	ng/kg	4.34 J Z	0.813 J Z	5.67 U B	0.933 J Z	1.75 J Z	5.60 U B	0.378 J Z
OCDD	ng/kg	2980	565	57	100	831	135	96
1,2,3,4,6,7,8-HpCDD	ng/kg	388	48	6.4	13.3	115	15	8.84
OCDF	ng/kg	163	15.7	2.11 J Z	4.22 J Z	37	4.52 J Z	3.18 J Z
1,2,3,4,7,8-HxCDD	ng/kg	1.80 J Z	0.368 J Z	5.67 U B	0.261 J Z	0.776 J Z	5.60 U B	0.208 J Z
1,2,3,7,8-PeCDD	ng/kg	1.06 J Z	5.37 U B	5.67 U B	5.14 U B	5.39 U B	5.60 U B	0.277 J Z
2,3,7,8-TCDF	ng/kg	0.146 J Z	1.07 U B	1.13 U B	1/16/2012	1.08 U B	1.12 U B	0.323 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.24	0.497 J Z	5.67 U B	5.14 U B	1.33 J Z	5.60 U B	5.23 U B
2,3,4,7,8-PeCDF	ng/kg	0.528 J Z	5.37 UJ B, FD	5.67 U B	0.566 J Z	5.39 U B	5.60 U B	5.23 U B
1,2,3,7,8-PeCDF	ng/kg	0.307 J Z	5.37 U B	5.67 U B	0.483 J Z	5.39 U B	5.60 U B	0.260 J Z
1,2,3,6,7,8-HxCDF	ng/kg	1.65 J Z	5.37 U B	5.67 U B	0.984 J Z	0.628 J Z	5.60 U B	0.220 J Z
1,2,3,6,7,8-HxCDD	ng/kg	15.3	1.93 J Z	0.397 J Z	1.24 J Z	5.10 J Z	0.560 J Z	0.526 J Z
2,3,4,6,7,8-HxCDF	ng/kg	2.76 J Z	0.399 J Z	5.67 U B	0.473 J Z	0.865 J Z	5.60 U B	5.23 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	56.8	6.13	0.834 J Z	2.13 J Z	14.5	1.80 J Z	1.37 J Z
1,2,3,4,7,8-HxCDF	ng/kg	1.53 J Z	5.37 U B	5.67 U B	1.51 J Z	0.532 J Z	5.60 U B	0.207 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.464 J Z	5.37 U B	5.67 U B	5.14 U B	0.260 J Z	5.60 U B	5.23 U B
Aroclor 1260	ug/kg	1.2 J Z	2.7 J FD	1.9 U	1.8 U	1.3 J Z	1.9 U	1.2 J Z
Aroclor 1254	ug/kg	1.8 U	1.9 U	1.9 U	9	1.9 U	0.91 J Z	2.9
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	1.9 J Z	3.7 J FD	3.8 U	3.4 U	1.3 J Z	3.8 U	3.5 U
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.5 U	3.6 U	3.8 U	3.4 U	3.6 U	3.8 U	3.5 U
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.5 U	3.6 U	3.8 U	3.4 U	3.6 U	3.8 U	3.5 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-179-SA5DN-SB-4.0-5.0	SL-179-SA5DN-SB-9.0-10.0	SL-180-SA5DN-SS-0.0-0.5	SL-180-SA5DN-SB-4.0-5.0	SL-180-SA5DN-SB-9.0-10.0	SL-181-SA5DN-SS-0.0-0.5	SL-181-SA5DN-SB-4.0-5.0
Sample Date		07/27/2011	07/27/2011	05/26/2011	07/29/2011	07/29/2011	05/26/2011	06/30/2011
SDG		DX120	DX120	DX093	DX121	DX121	DX093	DX107
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0859 J Z	1.10 U B	1.02 U B	0.0169 J Z	0.0157 J Z	1.04 U B	1.11 U B
1,2,3,7,8,9-HxCDD	ng/kg	3.11 J Z	5.52 U B	0.276 J Z	5.59 U B	5.87 U B	1.26 J Z	5.55 U B
OCDD	ng/kg	2400	88.6	98.6	4.51 J Z	18.1	1090	12.5
1,2,3,4,6,7,8-HpCDD	ng/kg	214	8.1	7.61	5.59 U B	2.57 J Z	64.1	5.55 U B
OCDF	ng/kg	53.8	1.98 J Z	3.19 J Z	11.2 U B	11.7 U B	16	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	1.90 J Z	5.52 U B	5.12 U B	0.0116 J Z	0.0402 J Z	0.576 J Z	5.55 U
1,2,3,7,8-PeCDD	ng/kg	0.713 J Z	5.52 U B	0.284 J Z	5.59 U B	5.87 U B	0.382 J Z	0.0721 J Z
2,3,7,8-TCDF	ng/kg	0.126 J Z	1.10 U B	0.115 J Z	0.0126 J Z	0.0171 J Z	0.526 J Z	0.0425 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	2.33 J Z	5.52 U B	5.12 U B	5.59 U B	5.87 U B	5.18 U B	5.55 U B
2,3,4,7,8-PeCDF	ng/kg	0.626 J Z	5.52 U B	5.12 U B	5.59 U B	5.87 U B	0.759 J Z	5.55 U B
1,2,3,7,8-PeCDF	ng/kg	0.638 J Z	5.52 U B	0.243 J Z	5.59 U B	5.87 U B	0.301 J Z	5.55 U B
1,2,3,6,7,8-HxCDF	ng/kg	1.11 J Z	5.52 U B	0.179 J Z	5.59 U B	5.87 U B	0.490 J Z	5.55 U B
1,2,3,6,7,8-HxCDD	ng/kg	7.88	0.311 J Z	0.371 J Z	5.59 U B	0.124 J Z	2.22 J Z	5.55 U B
2,3,4,6,7,8-HxCDF	ng/kg	1.80 J Z	5.52 U B	5.12 U B	5.59 U B	5.87 U B	0.521 J Z	5.55 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	22.3	0.852 J Z	1.06 J Z	5.59 U B	0.293 J Z	6.63	5.55 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.982 J Z	5.52 U B	0.316 J Z	5.59 U B	5.87 U B	1.20 J Z	5.55 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.328 J Z	5.52 U B	5.12 U B	5.59 U B	5.87 U B	0.469 J Z	5.55 U B
Aroclor 1260	ug/kg	1.6 J Z	1.9 U	0.52 J Z	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 1254	ug/kg	1.8 U	1.9 U	0.86 J Z	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 5460	ug/kg	2.6 J Z	3.8 U	1.5 J Z	3.8 U	4.0 U	21	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 5442	ug/kg	3.4 U	3.8 U	3.4 U	3.8 U	4.0 U	17 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	2.0 U	9.0 U	1.9 U
Aroclor 5432	ug/kg	3.4 U	3.8 U	3.4 U	3.8 U	4.0 U	17 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-181-SA5DN-SB-9.0-10.0	SL-182-SA5DN-SS-0.0-0.5	SL-182-SA5DN-SB-4.0-5.0	SL-182-SA5DN-SB-9.0-10.0	SL-183-SA5DN-SS-0.0-0.5	SL-183-SA5DN-SB-4.0-5.0	SL-183-SA5DN-SB-9.0-10.0
Sample Date		06/30/2011	05/26/2011	06/30/2011	06/30/2011	05/26/2011	07/28/2011	07/28/2011
SDG		DX107	DX093	DX107	DX107	DX093	DX121	DX121
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.19 U	1.05 U B	1.12 U	1.14 U	1.02 U	1.09 U	0.0112 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.96 U B	0.407 J Z	0.251 J Z	5.68 U B	0.835 J Z	5.45 U B	5.70 U B
OCDD	ng/kg	11.3 J Z	207	11.2 U B	11.4 U B	186	4.73 J FD, Z	11.4 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.96 U B	15.3	5.62 U B	5.68 U B	18.3	5.45 U B	5.70 U B
OCDF	ng/kg	11.9 U B	5.36 J Z	11.2 U B	11.4 U B	5.25 J Z	10.9 U B	11.4 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.96 U	5.23 U B	5.62 U	5.68 U	0.402 J Z	0.0161 J FD, Z	0.0677 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0459 J Z	5.23 U B	5.62 U	0.0258 J Z	0.357 J Z	5.45 UJ B, FD	5.70 U B
2,3,7,8-TCDF	ng/kg	1.19 U	0.167 J Z	1.12 U	1.14 U	0.104 J Z	1.09 UJ FD	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.96 U B	5.23 U B	5.62 U B	5.68 U B	5.10 U B	5.45 U B	5.70 U B
2,3,4,7,8-PeCDF	ng/kg	5.96 U B	5.23 U B	5.62 U B	5.68 U B	5.10 U B	5.45 U B	5.70 U B
1,2,3,7,8-PeCDF	ng/kg	5.96 U B	5.23 U B	5.62 U B	5.68 U B	5.10 U B	5.45 U B	5.70 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.96 U B	0.132 J Z	5.62 U B	5.68 U B	0.254 J Z	5.45 UJ B, FD	0.0735 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.96 U B	0.566 J Z	5.62 U B	5.68 U B	1.19 J Z	5.45 UJ B, FD	5.70 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.96 U B	5.23 U B	5.62 U B	5.68 U B	0.270 J Z	5.45 UJ B, FD	5.70 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.96 U B	1.95 J Z	5.62 U B	5.68 U B	2.53 J Z	5.45 U B	5.70 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.96 U B	0.472 J Z	5.62 U B	5.68 U B	5.10 U B	5.45 U B	5.70 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.96 U	5.23 U B	0.423 J Z	5.68 U B	5.10 U B	5.45 UJ B, FD	5.70 U B
Aroclor 1260	ug/kg	2.0 U	0.83 J Z	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	2.0 U	0.74 J Z	2.0 U	0.66 J Z	1.7 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.9 U	2.7 J Z	3.8 U	3.9 U	3.4 U	3.7 U	3.8 U
Aroclor 1232	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.9 U	3.5 U	3.8 U	3.9 U	3.4 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	1.7 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.9 U	3.5 U	3.8 U	3.9 U	3.4 U	3.7 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-184-SA5DN-SS-0.0-0.5	SL-184-SA5DN-SB-4.0-5.0	SL-184-SA5DN-SB-9.0-10.0	SL-185-SA5DN-SS-0.0-0.5	SL-185-SA5DN-SB-4.0-5.0	SL-185-SA5DN-SB-9.0-10.0	SL-186-SA5DN-SS-0.0-0.5
Sample Date		05/26/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011	08/04/2011	05/24/2011
SDG		DX093	DX107	DX107	DX090	DX124	DX124	DX088
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.03 U B	1.11 U	1.15 U	1.10 U	0.0159 J Z	1.14 U	1.14 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	0.264 J Z	0.324 J Z	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	0.654 J Z
OCDD	ng/kg	81.9	44.7	11.5 U B	30	11.4 U B	2.94 J Z	416
1,2,3,4,6,7,8-HpCDD	ng/kg	6.28	4.24 J Z	5.75 U B	2.83 J Z	5.72 U B	5.71 U B	25.1
OCDF	ng/kg	2.26 J Z	11.1 U B	11.5 U B	11.0 U B, Z	11.4 U B	11.4 U B	9.12 J Z
1,2,3,4,7,8-HxCDD	ng/kg	5.17 U B	5.54 U B	5.75 U	5.49 U B, Z	5.72 U B	5.71 U	0.286 J Z
1,2,3,7,8-PeCDD	ng/kg	5.17 U B	0.105 J Z	0.0389 J Z	0.0480 J Z	5.72 U B	5.71 U B	0.323 J Z
2,3,7,8-TCDF	ng/kg	0.161 J Z	0.188 J Z	1.15 U	0.159 J Z	1.14 U	1.14 U B	0.672 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.17 U B	5.54 U B	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	0.373 J Z
2,3,4,7,8-PeCDF	ng/kg	5.17 U B	0.666 J Z	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	0.695 J Z
1,2,3,7,8-PeCDF	ng/kg	5.17 U B	0.204 J Z	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	2.87 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.17 U B	5.54 U B	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	0.500 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.318 J Z	0.297 J Z	5.75 U B	0.225 J Z	5.72 U B	5.71 U B	1.09 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.17 U B	5.54 U B	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	0.372 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	0.898 J Z	5.54 U B	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	3.13 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.374 J Z	5.54 U B	5.75 U B	0.249 J Z	5.72 U B	5.71 U B	1.36 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.17 U B	5.54 U B	5.75 U B	5.49 U B, Z	5.72 U B	5.71 U B	0.377 J Z
Aroclor 1260	ug/kg	1.8 U	1.9 U	2.0 U	0.87 J Z	1.9 U	1.9 U	3.7
Aroclor 1254	ug/kg	1.8 U	1.9 U	2.0 U	3.1	1.3 J Z	1.9 U	5.6
Aroclor 1268	ug/kg	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.2 J Z	3.8 U	3.9 U	4	3.8 U	3.8 U	2.1 J Z
Aroclor 1232	ug/kg	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	3.8 U	3.9 U	3.7 U	3.8 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.8 U	3.9 U	3.7 U	3.8 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-186-SA5DN-SB-4.0-5.0	SL-186-SA5DN-SB-9.0-10.0	SL-187-SA5DN-SS-0.0-0.5	SL-187-SA5DN-SB-4.0-5.0	SL-187-SA5DN-SB-9.0-10.0	SL-188-SA5DN-SS-0.0-0.5	SL-188-SA5DN-SB-4.0-5.0
Sample Date		07/05/2011	07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/03/2011
SDG		DX107	DX108	DX088	DX107	DX107	DX088	DX124
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.16 U B	0.0136 J Z	1.24 U B, Z	1.12 U	1.14 U B	1.14 U	0.0952 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.224 J Z	5.71 U B	1.43 J Z	0.353 J Z	5.71 U B	0.630 J Z	0.152 J Z
OCDD	ng/kg	11.6 U B	11.4 U B	532	11.4	11.4 U B	60.1	11.5 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.80 U B	5.71 U B	56.3	5.59 U B	5.71 U B	5.49 J Z	5.73 U B
OCDF	ng/kg	11.6 U B	11.4 U B	13.4	11.2 U B	11.4 U B	2.57 J Z	11.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.80 U B	5.71 U B	0.760 J Z	5.59 U B	5.71 U B	0.148 J Z	0.154 J Z
1,2,3,7,8-PeCDD	ng/kg	5.80 U B	5.71 U	0.590 J Z	0.119 J Z	0.253 J Z	0.155 J Z	0.298 J Z
2,3,7,8-TCDF	ng/kg	0.0147 J Z	1.14 U	0.745 J Z	0.0310 J Z	0.0882 J Z	0.401 J Z	0.105 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.80 U B	5.71 U B	0.665 J Z	5.59 U B	5.71 U B	5.70 U B, Z	5.73 U B
2,3,4,7,8-PeCDF	ng/kg	5.80 U B	5.71 U B	1.12 J Z	5.59 U B	5.71 U B	0.502 J Z	0.339 J Z
1,2,3,7,8-PeCDF	ng/kg	5.80 U B	5.71 U B	1.75 J Z	0.207 J Z	0.288 J Z	0.993 J Z	0.352 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.80 U B	5.71 U B	0.792 J Z	5.59 U B	5.71 U B	5.70 U B, Z	0.214 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.80 U B	5.71 U B	2.39 J Z	5.59 U B	5.71 U B	0.583 J Z	0.170 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.80 U B	5.71 U B	0.583 J Z	5.59 U B	5.71 U B	5.70 U B, Z	0.147 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	5.80 U B	5.71 U B	6.99	5.59 U B	5.71 U B	1.20 J Z	5.73 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.80 U B	5.71 U B	0.716 J Z	5.59 U B	5.71 U B	5.70 U B, Z	0.263 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.80 U B	0.0775 J Z	0.667 J Z	0.478 J Z	5.71 U B	0.604 J Z	0.200 J Z
Aroclor 1260	ug/kg	2.0 U	1.9 U	2.3	1.9 U	2.0 U	1.8 J Z	2.0 U
Aroclor 1254	ug/kg	2.0 U	1.9 U	4.8	1.9 U	2.0 U	4.1	2.0 U
Aroclor 1268	ug/kg	2.0 U	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	3.8 U	2.6 J Z	3.8 U	3.9 U	1.7 J Z	3.8 U
Aroclor 1232	ug/kg	2.0 U	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	3.8 U	4.2 U	3.8 U	3.9 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	3.8 U	4.2 U	3.8 U	3.9 U	3.8 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-188-SA5DN-SB-9.0-10.0	SL-189-SA5DN-SS-0.0-0.5	SL-189-SA5DN-SB-4.0-5.0	SL-189-SA5DN-SB-9.0-10.0	SL-190-SA5DN-SS-0.0-0.5	SL-190-SA5DN-SB-4.0-5.0	SL-190-SA5DN-SB-9.0-10.0
Sample Date		08/03/2011	05/24/2011	08/04/2011	08/04/2011	05/25/2011	07/06/2011	07/06/2011
SDG		DX124	DX088	DX124	DX124	DX090	DX108	DX108
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0764 J Z	1.17 U	1.05 UJ FD	0.0229 J Z	0.0209 J Z	1.15 U	0.0181 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.182 J Z	0.318 J Z	0.176 J Z	0.146 J Z	5.88 U B, Z	5.74 U B	5.79 U B
OCDD	ng/kg	6.68 J Z	44.4	2.91 J FD, Z	8.78 J Z	31.8	11.5 U B	11.6 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.57 U B	4.53 J Z	5.24 U B	1.36 J Z	3.75 J Z	5.74 U B	5.79 U B
OCDF	ng/kg	11.1 U B	2.23 J Z	10.5 U B	0.717 J Z	11.8 U B, Z	11.5 U B	11.6 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.57 U B	5.86 U B, Z	5.24 UJ B, FD	5.67 U B	5.88 U B, Z	5.74 U	5.79 U B
1,2,3,7,8-PeCDD	ng/kg	0.192 J Z	5.86 U B, Z	5.24 UJ B, FD	0.120 J Z	0.0792 J Z	5.74 U B	5.79 U B
2,3,7,8-TCDF	ng/kg	0.137 J Z	0.695 J Z	1.05 UJ B, FD	0.188 J Z	0.265 J Z	1.15 U	0.0268 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.57 U B	5.86 U B, Z	5.24 U B	5.67 U B	5.88 U B, Z	5.74 U B	5.79 U B
2,3,4,7,8-PeCDF	ng/kg	0.304 J Z	0.461 J Z	5.24 U B	0.237 J Z	0.322 J Z	5.74 U B	5.79 U B
1,2,3,7,8-PeCDF	ng/kg	0.431 J Z	0.709 J Z	0.231 J Z	0.643 J Z	5.88 U B, Z	5.74 U	5.79 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.183 J Z	5.86 U B, Z	5.24 UJ B, FD	0.129 J Z	5.88 U B, Z	5.74 U B	5.79 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.153 J Z	0.248 J Z	5.24 U B	5.67 U B	0.225 J Z	5.74 U B	5.79 U B
2,3,4,6,7,8-HxCDF	ng/kg	0.121 J Z	5.86 U B, Z	5.24 U B	0.138 J Z	5.88 U B, Z	5.74 U B	5.79 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.57 U B	1.10 J Z	5.24 U B	5.67 U B	0.778 J Z	5.74 U B	5.79 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.239 J Z	1.09 J Z	5.24 U B	0.295 J Z	0.354 J Z	5.74 U B	5.79 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.218 J Z	5.86 U B, Z	0.227 J Z	0.177 J Z	5.88 U B, Z	0.306 J Z	0.0905 J Z
Aroclor 1260	ug/kg	1.9 U	3.6 J Z	1.9 U	2.0 U	1.7 J Z	2.0 U	2.0 U
Aroclor 1254	ug/kg	1.9 U	7.0 J Z	1.2 J FD, Z	0.55 J Z	2.0 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	1.9 U	10 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	10 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	3.8 U	19 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U
Aroclor 1232	ug/kg	1.9 U	10 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	3.8 U	19 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	10 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	10 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	10 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	10 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	3.8 U	19 U	3.6 U	3.8 U	3.9 U	3.8 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-191-SA5DN-SS-0.0-0.5	SL-191-SA5DN-SB-4.0-5.0	SL-191-SA5DN-SB-9.0-10.0	SL-192-SA5DN-SS-0.0-0.5	SL-192-SA5DN-SB-4.0-5.0	SL-192-SA5DN-SB-9.0-10.0	SL-193-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	07/06/2011	07/06/2011	05/24/2011	07/05/2011	07/05/2011	05/24/2011
SDG		DX088	DX108	DX108	DX088	DX107	DX108	DX088
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U B, Z	0.0619 J Z	0.127 J Z	1.22 U	1.16 U	0.0131 J Z	1.07 U B, Z
1,2,3,7,8,9-HxCDD	ng/kg	2.35 J Z	0.497 J Z	5.82 U B	0.714 J Z	5.79 U B	5.75 U B	1.29 J Z
OCDD	ng/kg	1040	11.4 U B	9.64 J Z	259	11.6 U B	11.5 U B	556
1,2,3,4,6,7,8-HpCDD	ng/kg	106	5.70 U B	5.82 U B	19.8	5.79 U B	5.75 U B	54.1
OCDF	ng/kg	36	11.4 U B	11.6 U B	6.14 J Z	11.6 U B	11.5 U B	20.1
1,2,3,4,7,8-HxCDD	ng/kg	0.946 J Z	0.148 J Z	5.82 U B	0.318 J Z	5.79 U B	5.75 U B	0.551 J Z
1,2,3,7,8-PeCDD	ng/kg	0.584 J Z	5.70 U B	0.272 J Z	0.274 J Z	5.79 U B	5.75 U B	0.346 J Z
2,3,7,8-TCDF	ng/kg	1/19/2012	0.0571 J Z	0.105 J Z	0.281 J Z	0.0208 J Z	0.0138 J Z	1/13/2012
1,2,3,4,7,8,9-HpCDF	ng/kg	1.82 J Z	5.70 U B	5.82 U B	6.11 U B, Z	5.79 U B	5.75 U B	0.944 J Z
2,3,4,7,8-PeCDF	ng/kg	0.774 J Z	5.70 U B	5.82 U B	0.470 J Z	5.79 U B	5.75 U B	1.01 J Z
1,2,3,7,8-PeCDF	ng/kg	0.288 J Z	0.382 J Z	0.436 J Z	0.238 J Z	5.79 U B	5.75 U B	0.829 J Z
1,2,3,6,7,8-HxCDF	ng/kg	1.20 J Z	5.70 U B	5.82 U B	6.11 U B, Z	5.79 U B	5.75 U B	0.704 J Z
1,2,3,6,7,8-HxCDD	ng/kg	4.40 J Z	0.308 J Z	0.177 J Z	1.00 J Z	5.79 U B	5.75 U B	2.40 J Z
2,3,4,6,7,8-HxCDF	ng/kg	1.34 J Z	5.70 U B	5.82 U B	6.11 U B, Z	5.79 U B	5.75 U B	0.948 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	16	5.70 U B	5.82 U B	2.80 J Z	5.79 U B	5.75 U B	8.32
1,2,3,4,7,8-HxCDF	ng/kg	3.19 J Z	5.70 U B	5.82 U B	0.693 J Z	5.79 U B	5.75 U B	2.39 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.459 J Z	0.624 J Z	0.213 J Z	0.426 J Z	5.79 U B	0.159 J Z	0.386 J Z
Aroclor 1260	ug/kg	11	2.0 U	2.0 U	1.1 J Z	2.0 U	2.0 U	4.1 J Z
Aroclor 1254	ug/kg	20	2.0 U	2.0 U	1.8 J Z	2.0 U	2.0 U	9.3 U
Aroclor 1268	ug/kg	9.3 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	9.3 U
Aroclor 1221	ug/kg	9.3 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	9.3 U
Aroclor 5460	ug/kg	10 J Z	3.8 U	3.9 U	1.4 J Z	3.8 U	3.9 U	18 U
Aroclor 1232	ug/kg	9.3 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	9.3 U
Aroclor 5442	ug/kg	18 U	3.8 U	3.9 U	4.1 U	3.8 U	3.9 U	18 U
Aroclor 1248	ug/kg	9.3 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	9.3 U
Aroclor 1016	ug/kg	9.3 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	9.3 U
Aroclor 1262	ug/kg	9.3 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	9.3 U
Aroclor 1242	ug/kg	9.3 U	2.0 U	2.0 U	2.1 U	2.0 U	2.0 U	9.3 U
Aroclor 5432	ug/kg	18 U	3.8 U	3.9 U	4.1 U	3.8 U	3.9 U	18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-193-SA5DN-SB-4.0-5.0	SL-193-SA5DN-SB-9.0-10.0	SL-194-SA5DN-SS-0.0-0.5	SL-194-SA5DN-SB-4.0-5.0	SL-194-SA5DN-SB-9.0-10.0	SL-195-SA5DN-SS-0.0-0.5	SL-195-SA5DN-SB-4.0-5.0
Sample Date		08/03/2011	08/03/2011	05/24/2011	07/05/2011	07/05/2011	05/24/2011	07/05/2011
SDG		DX124	DX124	DX088	DX107	DX107	DX088	DX107
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0357 J Z	1.11 U	1.24 U B, Z	1.13 U B	1.17 U B	0.124 J Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.307 J Z	0.127 J Z	0.699 J Z	5.66 U B	5.84 U B	4.72 J Z	5.67 U B
OCDD	ng/kg	154	49.1	105	15.5	7.18 J Z	1940	11.3 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	14.4	5.16 J Z	10.4	5.66 U B	5.84 U B	194	5.67 U B
OCDF	ng/kg	8.65 J Z	2.12 J Z	3.01 J Z	11.3 U B	11.7 U B	64	11.3 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.141 J Z	5.57 U B	0.181 J Z	5.66 U B	5.84 U	2.14 J Z	5.67 U B
1,2,3,7,8-PeCDD	ng/kg	0.150 J Z	5.57 U B	0.182 J Z	0.143 J Z	5.84 U B	1.07 J Z	5.67 U
2,3,7,8-TCDF	ng/kg	0.167 J Z	1.11 U	0.302 J Z	0.0540 J Z	1.17 U	2.44 Z	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.357 J Z	5.57 U B	6.19 U B, Z	5.66 U B	5.84 U B	2.97 J Z	5.67 U B
2,3,4,7,8-PeCDF	ng/kg	0.403 J Z	5.57 U B	0.389 J Z	5.66 U B	5.84 U B	1.80 J Z	5.67 U B
1,2,3,7,8-PeCDF	ng/kg	0.588 J Z	0.136 J Z	0.451 J Z	5.66 U B	5.84 U B	3.98 J Z	5.67 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.208 J Z	5.57 U B	0.294 J Z	5.66 U B	5.84 U B	1.68 J Z	5.67 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.542 J Z	0.220 J Z	0.781 J Z	5.66 U B	5.84 U B	8.82	0.129 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.268 J Z	5.57 U B	6.19 U B, Z	5.66 U B	5.84 U B	2.33 J Z	5.67 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	2.81 J Z	0.806 J Z	1.49 J Z	5.66 U B	5.84 U B	26.6	5.67 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.313 J Z	0.153 J Z	0.592 J Z	5.66 U B	5.84 U B	4.04 J Z	5.67 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.161 J Z	5.57 U B	0.599 J Z	0.312 J Z	5.84 U B	0.745 J Z	5.67 U B
Aroclor 1260	ug/kg	1.9 U	9.8 U	0.66 J Z	2.0 U	2.0 U	13	2.0 U
Aroclor 1254	ug/kg	2.1	52	1.1 J Z	2.0 U	2.0 U	40	2.0 U
Aroclor 1268	ug/kg	1.9 U	9.8 U	2.1 U	2.0 U	2.0 U	11 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	9.8 U	2.1 U	2.0 U	2.0 U	11 U	2.0 U
Aroclor 5460	ug/kg	3.7 U	19 U	4.1 U	3.8 U	3.9 U	11 J Z	3.9 U
Aroclor 1232	ug/kg	1.9 U	9.8 U	2.1 U	2.0 U	2.0 U	11 U	2.0 U
Aroclor 5442	ug/kg	3.7 U	19 U	4.1 U	3.8 U	3.9 U	21 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	9.8 U	2.1 U	2.0 U	2.0 U	11 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	9.8 U	2.1 U	2.0 U	2.0 U	11 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	9.8 U	2.1 U	2.0 U	2.0 U	11 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	9.8 U	2.1 U	2.0 U	2.0 U	11 U	2.0 U
Aroclor 5432	ug/kg	3.7 U	19 U	4.1 U	3.8 U	3.9 U	21 U	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-195-SA5DN-SB-9.0-10.0	SL-196-SA5DN-SS-0.0-0.5	SL-196-SA5DN-SB-4.0-5.0	SL-196-SA5DN-SB-9.0-10.0	SL-197-SA5DN-SS-0.0-0.5	SL-197-SA5DN-SB-4.0-5.0	SL-197-SA5DN-SB-9.0-10.0
Sample Date		07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	06/30/2011	06/30/2011
SDG		DX107	DX088	DX107	DX107	DX088	DX107	DX107
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.16 U B	0.0330 J Z	1.12 U B	1.11 U	1.15 U B, Z	1.12 U	1.16 U
1,2,3,7,8,9-HxCDD	ng/kg	5.79 U B	0.938 J Z	0.340 J Z	5.57 U B	1.53 J Z	0.301 J Z	5.78 U B
OCDD	ng/kg	13.1	266	11.2 U B	11.1 U B	339	11.2 U B	11.6 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.79 U B	22	5.62 U B	5.57 U B	34	5.62 U B	5.78 U B
OCDF	ng/kg	11.6 U B	10.5 J Z	11.2 U B	11.1 U B	11.5	11.2 U B	11.6 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.79 U	0.261 J Z	5.62 U B	5.57 U B	0.425 J Z	5.62 U B	5.78 U
1,2,3,7,8-PeCDD	ng/kg	0.0262 J Z	0.202 J Z	0.138 J Z	0.0441 J Z	0.377 J Z	0.0414 J Z	5.78 U
2,3,7,8-TCDF	ng/kg	1.16 U	0.338 J Z	0.0345 J Z	1.11 U	0.455 J Z	1.12 U	1.16 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.79 U	5.74 U B, Z	5.62 U B	5.57 U B	0.442 J Z	5.62 U B	5.78 U B
2,3,4,7,8-PeCDF	ng/kg	5.79 U B	0.459 J Z	5.62 U B	5.57 U B	0.494 J Z	5.62 U B	5.78 U B
1,2,3,7,8-PeCDF	ng/kg	5.79 U B	0.357 J Z	0.183 J Z	5.57 U B	0.704 J Z	5.62 U B	5.78 U
1,2,3,6,7,8-HxCDF	ng/kg	5.79 U B	5.74 U B, Z	5.62 U B	5.57 U B	0.483 J Z	5.62 U B	5.78 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.79 U B	1.04 J Z	5.62 U B	5.57 U B	1.74 J Z	5.62 U B	5.78 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.79 U B	5.74 U B, Z	5.62 U B	5.57 U B	0.551 J Z	5.62 U B	5.78 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.79 U B	3.52 J Z	5.62 U B	5.57 U B	5.59 J Z	5.62 U B	5.78 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.79 U B	0.572 J Z	5.62 U B	5.57 U B	1.11 J Z	5.62 U B	5.78 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.79 U B	0.791 J Z	0.413 J Z	5.57 U B	0.845 J Z	0.276 J Z	5.78 U B
Aroclor 1260	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.3 J S	2.0 U	2.0 U
Aroclor 1254	ug/kg	0.59 J L, Z	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1268	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1221	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5460	ug/kg	4.0 U	38 U	3.8 U	3.8 U	3.6 J S, Z	3.9 U	4.0 U
Aroclor 1232	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5442	ug/kg	4.0 U	38 U	3.8 U	3.8 U	3.8 U	3.9 U	4.0 U
Aroclor 1248	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1016	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1262	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 1242	ug/kg	2.1 U	20 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Aroclor 5432	ug/kg	4.0 U	38 U	3.8 U	3.8 U	3.8 U	3.9 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-198-SA5DN-SS-0.0-0.5	SL-198-SA5DN-SB-4.0-5.0	SL-198-SA5DN-SB-9.0-10.0	SL-199-SA5DN-SS-0.0-0.5	SL-199-SA5DN-SB-4.0-5.0	SL-199-SA5DN-SB-9.0-10.0	SL-200-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	08/05/2011	08/05/2011	05/25/2011	07/11/2011	07/11/2011	05/25/2011
SDG		DX088	DX125	DX125	DX090	DX110	DX110	DX091
Start Depth		0	4	9	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.10 U	1.16 U	1.07 U	0.0836 J Z	1.16 U	1.11 U	1.14 U B
1,2,3,7,8,9-HxCDD	ng/kg	6.42	0.882 J Z	0.194 J Z	2.53 J Z	0.438 J Z	5.57 U B	0.187 J Z
OCDD	ng/kg	2250	117	71.7	1270	11.6 U B	11.1 U B	24.9
1,2,3,4,6,7,8-HpCDD	ng/kg	243	11.8	7.25	126	5.79 U B	5.57 U B	2.70 J Z
OCDF	ng/kg	106	5.79 J Z	4.33 J Z	51	11.6 U B	11.1 U B	11.4 U B
1,2,3,4,7,8-HxCDD	ng/kg	3.10 J Z	5.80 U B	5.33 U	1.15 J Z	5.79 U B	5.57 U	5.69 U B
1,2,3,7,8-PeCDD	ng/kg	1.06 J Z	0.130 J Z	5.33 U	0.570 J Z	5.79 U B	5.57 U	5.69 U B
2,3,7,8-TCDF	ng/kg	1.36 Z	0.143 J Z	1.07 U	4.39 Z	1.16 U	1.11 U	0.216 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	3.64 J Z	5.80 U B	5.33 U B	1.83 J Z	5.79 U	5.57 U B	5.69 U B
2,3,4,7,8-PeCDF	ng/kg	1.73 J Z	5.80 U B	5.33 U B	2.42 J Z	5.79 U B	5.57 U B	0.300 J Z
1,2,3,7,8-PeCDF	ng/kg	1.07 J Z	0.752 J Z	5.33 U	1.96 J Z	0.145 J Z	0.0345 J Z	0.231 J Z
1,2,3,6,7,8-HxCDF	ng/kg	1.98 J Z	0.147 J Z	0.0874 J Z	1.11 J Z	5.79 U B	5.57 U B	5.69 U B
1,2,3,6,7,8-HxCDD	ng/kg	7.42	0.636 J Z	0.200 J Z	4.42 J Z	5.79 U B	5.57 U B	5.69 U B
2,3,4,6,7,8-HxCDF	ng/kg	2.81 J Z	0.140 J Z	0.145 J Z	1.50 J Z	5.79 U B	5.57 U B	5.69 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	41.7	2.13 J Z	1.34 J Z	22.3	5.79 U B	5.57 U B	5.69 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.94	0.211 J Z	0.0875 J Z	0.929 J Z	5.79 U B	5.57 U B	5.69 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.662 J Z	0.982 J Z	5.33 U	0.723 J Z	0.538 J Z	5.57 U	5.69 U B
Aroclor 1260	ug/kg	170 J Z	3.3	2.6	9.3 U	2.0 U	1.9 U	1.1 J Z
Aroclor 1254	ug/kg	190 U	2.8	2.2	75	2.0 U	1.9 U	2.0 U
Aroclor 1268	ug/kg	190 U	2.0 U	1.9 U	9.3 U	2.0 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	190 U	2.0 U	1.9 U	9.3 U	2.0 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	360 U	3.3 J Z	3.7 U	18 U	3.9 U	3.7 U	3.8 U
Aroclor 1232	ug/kg	190 U	2.0 U	1.9 U	9.3 U	2.0 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	360 U	3.8 U	3.7 U	18 U	3.9 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	190 U	2.0 U	1.9 U	9.3 U	2.0 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	190 U	2.0 U	1.9 U	9.3 U	2.0 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	190 U	2.0 U	1.9 U	9.3 U	2.0 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	190 U	2.0 U	1.9 U	9.3 U	2.0 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	360 U	3.8 U	3.7 U	18 U	3.9 U	3.7 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-200-SA5DN-SB-4.0-5.0	SL-200-SA5DN-SB-9.0-10.0	SL-201-SA5DN-SS-0.0-0.5	SL-201-SA5DN-SB-4.0-5.0	SL-201-SA5DN-SB-9.0-10.0	SL-202-SA5DN-SS-0.0-0.5	SL-202-SA5DN-SB-4.0-5.0
Sample Date		07/06/2011	07/06/2011	05/25/2011	07/06/2011	07/06/2011	05/18/2011	06/13/2011
SDG		DX108	DX108	DX091	DX108	DX108	DX084	DX102
Start Depth		4	9	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0682 J FD, Z	0.0280 J Z	1.16 UJ FD	1.17 U	1.16 U	1.12 U B, Z	1.20 U
1,2,3,7,8,9-HxCDD	ng/kg	5.53 U B	5.81 U B	0.220 J Z	5.83 U B	5.81 U B	1.01 J Z	5.99 U B
OCDD	ng/kg	11.1 U B	11.6 U B	31.5	11.7 U B	11.6 U B	956	8.40 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.53 U B	5.81 U B	3.71 J Z	5.83 U B	5.81 U B	48.7	5.99 U B
OCDF	ng/kg	11.1 UJ B, FD	11.6 U B	11.6 U B	11.7 U B	11.6 U B	14.3	12.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.53 U B	5.81 U B	5.81 U B	5.83 U B	5.81 U	0.334 J Z	5.99 U
1,2,3,7,8-PeCDD	ng/kg	5.53 U B	5.81 U B	5.81 U B	5.83 U B	5.81 U B	5.60 U B, Z	5.99 U
2,3,7,8-TCDF	ng/kg	0.0390 J Z	0.0182 J Z	0.654 J Z	1.17 U	1.16 U	0.191 J Z	1.20 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.53 UJ B, FD	5.81 U B	5.81 U B	5.83 U B	5.81 U B	5.60 U B, Z	5.99 U
2,3,4,7,8-PeCDF	ng/kg	5.53 U B	5.81 U B	0.634 J Z	5.83 U B	5.81 U B	5.60 U	5.99 U
1,2,3,7,8-PeCDF	ng/kg	0.191 J Z	5.81 U B	0.948 J FD, Z	5.83 U B	5.81 U B	5.60 U	5.99 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U B	5.81 U B	5.81 U B	5.83 U B	5.81 U B	0.372 J Z	5.99 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.53 U B	5.81 U B	0.237 J Z	5.83 U B	5.81 U B	1.87 J Z	5.99 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U B	5.81 U B	5.81 U B	5.83 U B	5.81 U B	5.60 U B, Z	5.99 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.53 U B	5.81 U B	0.831 J Z	5.83 U B	5.81 U B	3.91 J Z	5.99 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U B	5.81 U B	0.743 J Z	5.83 U B	5.81 U B	0.620 J Z	5.99 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.349 J Z	0.158 J Z	5.81 U B	0.231 J Z	0.0367 J Z	0.734 J Z	5.99 U B
Aroclor 1260	ug/kg	2.0 U	2.0 U	2.3	2.0 U	2.0 U	6.4	2.1 U
Aroclor 1254	ug/kg	2.0 U	2.0 U	3.1	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 5460	ug/kg	3.8 U	3.9 U	3.9 U	3.8 U	3.9 U	5.4	4.0 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 5442	ug/kg	3.8 U	3.9 U	3.9 U	3.8 U	3.9 U	3.7 U	4.0 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U
Aroclor 5432	ug/kg	3.8 U	3.9 U	3.9 U	3.8 U	3.9 U	3.7 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A4
PCBs and Dioxins-Validated Data
HSA-5DN

Sample Name		SL-202-SA5DN-SB-9.0-10.0	SL-203-SA5DN-SS-0.0-0.5	SL-203-SA5DN-SB-4.0-5.0	SL-203-SA5DN-SB-9.0-10.0	SL-204-SA5DN-SS-0.0-0.5	SL-204-SA5DN-SB-4.0-5.0	SL-204-SA5DN-SB-9.0-10.0
Sample Date		06/13/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011	08/04/2011
SDG		DX102	DX089	DX107	DX107	DX089	DX124	DX124
Start Depth		9	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.15 U B	0.0509 J Z	1.15 U	1.15 U	1.15 U	0.0495 J Z	0.0436 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.77 U B	1.49 J Z	0.307 J Z	5.75 U B	0.388 J Z	0.437 J Z	0.233 J Z
OCDD	ng/kg	5.76 J Z	345	11.5 U B	11.5 U B	23.1	35	4.26 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.77 U B	31.9	5.74 U B	5.75 U B	2.54 J Z	3.02 J Z	5.85 U B
OCDF	ng/kg	11.5 U B	14.1	11.5 U B	11.5 U B	11.5 U B, Z	1.52 J Z	11.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.77 U B	0.572 J Z	5.74 U B	5.75 U	5.75 U B, Z	5.51 U B	5.85 U B
1,2,3,7,8-PeCDD	ng/kg	5.77 U B	0.389 J Z	0.0498 J Z	0.0295 J Z	5.75 U B, Z	0.173 J Z	0.154 J Z
2,3,7,8-TCDF	ng/kg	1.15 U B	0.918 J Z	1.15 U	1.15 U	1.15 U B, Z	0.171 J Z	1.17 U B
1,2,3,4,7,8,9-HpCDF	ng/kg	5.77 U B	0.530 J Z	5.74 U B	5.75 U B	5.75 U B, Z	5.51 U B	5.85 U B
2,3,4,7,8-PeCDF	ng/kg	5.77 U B	0.766 J Z	5.74 U B	5.75 U B	5.75 U B, Z	0.394 J Z	5.85 U B
1,2,3,7,8-PeCDF	ng/kg	0.244 J Z	2.26 J Z	5.74 U B	5.75 U B	0.285 J Z	0.516 J Z	0.248 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.77 U B	0.570 J Z	5.74 U B	5.75 U B	5.75 U B, Z	0.165 J Z	0.104 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.77 U B	1.93 J Z	5.74 U B	5.75 U B	0.300 J Z	0.291 J Z	0.146 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.77 U B	0.469 J Z	5.74 U B	5.75 U B	5.75 U B, Z	0.168 J Z	5.85 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.77 U B	5.53 J Z	5.74 U B	5.75 U B	5.75 U B, Z	0.600 J Z	5.85 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.77 U B	1.85 J Z	5.74 U	5.75 U B	5.75 U B, Z	0.453 J Z	0.150 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.77 U B	1.14 J Z	0.414 J Z	5.75 U B	0.373 J Z	0.404 J Z	0.311 J Z
Aroclor 1260	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	0.50 J Z	2.0 U
Aroclor 1254	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	0.65 J Z
Aroclor 1268	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	3.9 U	78 U	3.9 U	3.8 U	3.9 U	3.6 U	3.8 U
Aroclor 1232	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	3.9 U	78 U	3.9 U	3.8 U	3.9 U	3.6 U	3.8 U
Aroclor 1248	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	2.0 U	40 U	2.0 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	3.9 U	78 U	3.9 U	3.8 U	3.9 U	3.6 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-205-SA5DN-SS-0.0-0.5	SL-205-SA5DN-SB-4.0-5.0	SL-205-SA5DN-SB-9.0-10.0	SL-206-SA5DN-SS-0.0-0.5	SL-206-SA5DN-SB-4.0-5.0	SL-207-SA5DN-SS-0.0-0.5	SL-207-SA5DN-SB-4.0-5.0
Sample Date		05/25/2011	07/06/2011	07/06/2011	05/17/2011	05/19/2011	06/03/2011	08/11/2011
SDG		DX091	DX108	DX108	DX082	DX083	DX098	DX127
Start Depth		0	4	9	0	4	0	4
End Depth		0.5	5	10	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.16 U	1.14 U	1.16 U	0.455 J Z	1.14 U	0.371 J Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.360 J Z	5.69 U B	5.79 U B	8.87	5.72 U B, Z	1.35 J Z	5.66 U B
OCDD	ng/kg	37.1	11.4 U B	11.6 U B	3500	6.22 J Z	165	11.3 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	4.33 J Z	5.69 U B	5.79 U B	207	5.72 U B, Z	15.1	5.66 U B
OCDF	ng/kg	2.59 J Z	11.4 U B	11.6 U B	46.8	11.4 U B, Z	6.73 J Z	11.3 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.221 J Z	5.69 U	5.79 U B	3.69 J Z	5.72 U B, Z	0.260 J Z	5.66 U B
1,2,3,7,8-PeCDD	ng/kg	5.82 U B	5.69 U B	5.79 U B	2.15 J Z	5.72 U B, Z	2.17 J Z	0.180 J Z
2,3,7,8-TCDF	ng/kg	0.545 J Z	0.0117 J Z	0.0210 J Z	0.320 J Z	1.14 U	4.78 Z	0.105 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.82 U B	5.69 U B	5.79 U B	0.860 J Z	5.72 U B, Z	0.624 J Z	5.66 U B
2,3,4,7,8-PeCDF	ng/kg	0.701 J Z	5.69 U B	5.79 U B	5.61 U B, Z	5.72 U B, Z	4.12 J Z	5.66 U B
1,2,3,7,8-PeCDF	ng/kg	0.256 J Z	5.69 U B	5.79 U B	0.450 J Z	5.72 U B, Z	4.47 J Z	0.218 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.288 J Z	5.69 U B	5.79 U B	0.890 J Z	5.72 U B, Z	1.32 J Z	5.66 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.395 J Z	5.69 U B	5.79 U B	8.19	5.72 U B, Z	1.15 J Z	0.106 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.373 J Z	5.69 U B	5.79 U B	0.823 J Z	5.72 U B, Z	1.28 J Z	0.0740 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	1.26 J Z	5.69 U B	5.79 U B	14.9	5.72 U B, Z	4.06 J Z	5.66 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.891 J Z	5.69 U B	5.79 U B	1.40 J Z	5.72 U B, Z	25.9	5.66 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.82 U B	0.434 J Z	0.0910 J Z	1.05 J Z	5.72 U B, Z	1.33 J Z	5.66 U B
Aroclor 1260	ug/kg	3.0 J Z	2.0 U	2.0 U	1.4 J Z	2.0 U	300 J C	1.9 U
Aroclor 1254	ug/kg	3.5 J Z	2.0 U	2.0 U	1.9 U	2.0 U	37 UJ C	1.9 U
Aroclor 1268	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	37 U	1.9 U
Aroclor 1221	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	37 U	1.9 U
Aroclor 5460	ug/kg	7.7 U	3.8 U	3.9 U	6.7	3.8 U	71 U	3.8 U
Aroclor 1232	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	37 U	1.9 U
Aroclor 5442	ug/kg	7.7 U	3.8 U	3.9 U	3.8 U	3.8 U	71 U	3.8 U
Aroclor 1248	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	37 UJ C	1.9 U
Aroclor 1016	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	37 U	1.9 U
Aroclor 1262	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	37 U	1.9 U
Aroclor 1242	ug/kg	4.0 U	2.0 U	2.0 U	1.9 U	2.0 U	37 UJ C	1.9 U
Aroclor 5432	ug/kg	7.7 U	3.8 U	3.9 U	3.8 U	3.8 U	71 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Pesticides-Validated Data
HSA-5DN

Sample Name		SL-001-SA5DN-SS-0.0-0.5	SL-002-SA5DN-SS-0.0-0.5	SL-004-SA5DN-SS-0.0-0.5	SL-005-SA5DN-SS-0.0-0.5	SL-006-SA5DN-SS-0.0-0.5	SL-008-SA5DN-SS-0.0-0.5	SL-009-SA5DN-SS-0.0-0.5
Sample Date		05/25/2011	05/25/2011	05/25/2011	05/25/2011	05/25/2011	05/23/2011	05/23/2011
SDG		DE163	DE163	DE163	DE163	DE163	DE160	DE160
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U	1.8 U	2.2 U
Dicamba	ug/kg	1.4 U	1.3 U	1.3 U	1.4 U	1.4 U	1.3 U	1.6 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	9.4 U	9.8 U	10 U	11 U	9.7 U	12 U
Dinitrobutyl Phenol	ug/kg	2.7 U	2.5 U	2.6 U	2.7 U	2.9 U	2.6 U	3.1 U
MCPP	ug/kg	290 U	260 U	270 U	280 U	300 U	270 U	330 U
2,4,5-TP	ug/kg	0.19 U	0.12 J Z	0.19 U	0.19 U	0.20 U	0.18 U	0.22 U
2,4,5-T	ug/kg	0.19 U	0.18 U	0.19 U	0.19 U	0.20 U	0.18 U	0.22 U
MCPA	ug/kg	800 U	530	270 U	1500	360 U	420	200 J Z
2,4-D	ug/kg	4.1 U	3.8 U	3.9 U	4.1 U	4.3 U	3.9 U	4.7 U
2,4 DB	ug/kg	2.4 U	1.8 U	2.9	2.8 U	2.5 U	1.8 U	2.2 U
Toxaphene	ug/kg	7.5 U	6.9 U	7.2 U	7.5 U	7.9 UJ S	7.1 U	8.7 U
Heptachlor Epoxide	ug/kg	0.19 U	0.17 U	0.18 U	0.19 U	0.20 UJ S	0.18 U	0.22 U
Endosulfan Sulfate	ug/kg	0.39 U	0.36 U	0.37 U	0.39 U	0.41 UJ S	0.37 U	0.45 U
Mirex	ug/kg	0.39 U	0.36 U	0.39 U	0.77 U	0.41 UJ S	0.37 U	0.45 U
Aldrin	ug/kg	0.19 U	0.17 U	0.18 U	0.19 U	0.20 UJ S	0.18 U	0.22 U
Alpha-BHC	ug/kg	0.19 U	0.17 U	0.18 U	0.19 U	0.20 UJ S	0.18 U	0.22 U
Beta-BHC	ug/kg	0.19 U	0.17 U	0.18 U	0.19 U	0.20 UJ S	0.18 U	0.23 J Q
Delta-BHC	ug/kg	0.043 J Z	0.17 U	0.18 U	0.060 J Z	0.20 UJ S	0.18 U	0.13 J Z
Endosulfan II	ug/kg	0.39 U	0.36 U	0.37 U	0.39 U	0.41 UJ S	0.40 UJ L	0.45 UJ L
4,4'-DDT	ug/kg	0.59 U	0.77 U	0.37 U	1.3 J L	3.0 J S, L	1.5	1.8 J Q
Endrin Ketone	ug/kg	0.39 U	0.36 U	0.37 U	0.39 U	0.41 UJ S	0.37 U	0.45 U
Chlordane	ug/kg	2.7 J Z	1.6 J Z	3.7 U	4	2.1 J S, Z	3.7 U	4.5 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.17 U	0.18 U	0.056 J Z	0.20 UJ S	0.18 U	0.22 U
Dieldrin	ug/kg	0.39 U	0.36 U	0.37 U	0.39 U	0.41 UJ S	0.45 U	0.45 U
Endrin	ug/kg	0.39 U	0.36 U	0.37 U	0.12 J Z	0.41 UJ S	0.37 U	0.45 R Q
Methoxychlor	ug/kg	1.9 U	1.7 U	1.8 U	1.9 U	2.0 UJ S	1.8 U	2.2 U
4,4'-DDD	ug/kg	0.39 U	0.36 U	0.38 U	0.39 U	0.41 UJ S	0.37 U	0.45 U
4,4'-DDE	ug/kg	0.79	0.36 U	0.37 U	1.0 U	0.58 J S	0.37 U	0.47 J Q
Endrin Aldehyde	ug/kg	0.39 U	0.36 U	0.37 U	0.39 U	0.41 UJ S	0.37 U	0.45 U
Heptachlor	ug/kg	0.19 U	0.17 U	0.18 U	0.19 U	0.20 UJ S	0.18 U	0.22 U
Endosulfan I	ug/kg	0.19 U	0.17 U	0.18 U	0.33	0.20 UJ S	0.18 U	0.22 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA5DN-SS-0.0-0.5	SL-011-SA5DN-SS-0.0-0.5	SL-012-SA5DN-SS-0.0-0.5	SL-013-SA5DN-SS-0.0-0.5	SL-014-SA5DN-SS-0.0-0.5	SL-015-SA5DN-SS-0.0-0.5	SL-016-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	05/23/2011	05/23/2011	05/23/2011	05/23/2011	05/23/2011	05/23/2011
SDG		DE160	DE160	DE160	DE160	DE160	DE159	DE159
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Dicamba	ug/kg	1.2 U	1.3 U	1.3 U	1.2 U	1.3 U	1.4 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.7 U	2.7 U	2.5 U	2.6 U	2.7 R L	2.7 R L
MCPP	ug/kg	250 U	280 U	280 U	260 U	280 U	280 U	280 U
2,4,5-TP	ug/kg	0.11 J Z	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.085 J Z
2,4,5-T	ug/kg	0.17 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
MCPA	ug/kg	200 J Z	410	160 J Z	540 U	580	280 U	280 U
2,4-D	ug/kg	3.7 U	4.0 U	4.0 U	3.7 U	4.0 U	4.1 U	4.0 U
2,4 DB	ug/kg	1.7 U	1.9 U	1.9 U	2.6	1.9 U	1.9 U	1.9 U
Toxaphene	ug/kg	6.7 U	7.4 U	7.4 U	6.8 U	7.3 U	7.5 U	7.4 U
Heptachlor Epoxide	ug/kg	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.19 U
Endosulfan Sulfate	ug/kg	0.34 U	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	0.38 U
Mirex	ug/kg	0.34 U	0.38 U	0.42	0.35 U	0.38 U	0.39 U	0.38 U
Aldrin	ug/kg	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.19 U
Alpha-BHC	ug/kg	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.19 U
Beta-BHC	ug/kg	0.17 U	0.19 U	0.19 U	0.17 U	0.15 J Z	0.95	0.33
Delta-BHC	ug/kg	0.17 U	0.11 J Z	0.19 U	0.17 U	0.18 U	0.19 U	0.19 U
Endosulfan II	ug/kg	0.34 UJ L	0.38 UJ L	0.38 UJ L	0.35 UJ L	0.38 UJ L	0.39 U	0.38 U
4,4'-DDT	ug/kg	0.34 U	1.1	0.17 J Z	0.36	2.2	1.4	7
Endrin Ketone	ug/kg	0.087 J Z	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	0.38 U
Chlordane	ug/kg	3.4 U	2.1 J Z	3.8 U	3.5 U	1.9 J Z	3.9 U	2.3 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.13 J Z	0.19 U	0.17 U	0.18 U	0.19 U	0.056 J Z
Dieldrin	ug/kg	0.34 U	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	1.6 U
Endrin	ug/kg	0.34 U	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	0.38 U
Methoxychlor	ug/kg	1.7 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U
4,4'-DDD	ug/kg	0.34 U	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	0.38 U
4,4'-DDE	ug/kg	0.34 U	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	0.38 U
Endrin Aldehyde	ug/kg	0.34 U	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	0.38 U
Heptachlor	ug/kg	0.17 U	0.19 U	0.19 U	0.17 U	0.19	0.19 U	0.19 U
Endosulfan I	ug/kg	0.17 U	0.19 U	0.19 U	0.17 U	0.18 U	0.19 U	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Pesticides-Validated Data
HSA-5DN

Sample Name		SL-017-SA5DN-SS-0.0-0.5	SL-018-SA5DN-SS-0.0-0.5	SL-019-SA5DN-SS-0.0-0.5	SL-020-SA5DN-SS-0.0-0.5	SL-021-SA5DN-SS-0.0-0.5	SL-022-SA5DN-SS-0.0-0.5	SL-023-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	05/23/2011	05/23/2011	05/20/2011	05/23/2011	05/23/2011	05/23/2011
SDG		DE159	DE160	DE159	DE158	DE159	DE159	DE159
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U
Dicamba	ug/kg	1.3 U	1.3 U	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	9.9 U	10 U	9.5 U	10 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.7 R L	2.6 U	2.8 R L	2.5 R L	2.8 R L	2.8 R L	2.7 R L
MCPP	ug/kg	280 U	270 U	290 U	260 U	290 U	290 U	280 U
2,4,5-TP	ug/kg	0.18 J Z	0.19 U	0.20 U	0.18 U	0.20 U	0.16 J Z	0.19 U
2,4,5-T	ug/kg	0.22	0.19 U	0.20 U	0.18 U	0.20 U	0.20 U	0.19 U
MCPA	ug/kg	97 J Z	670 U	290 U	260 U	100 J Z	290 U	270 J Z
2,4-D	ug/kg	4.0 U	3.9 U	4.2 U	3.8 U	4.2 U	4.1 U	1.9 J Z
2,4 DB	ug/kg	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U	2.0 U	1.9 U
Toxaphene	ug/kg	7.4 U	7.2 U	7.6 U	7.0 U	7.7 U	7.6 U	7.5 U
Heptachlor Epoxide	ug/kg	0.28 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.086 J Z
Endosulfan Sulfate	ug/kg	0.38 U	0.37 U	0.39 U	0.36 U	0.40 U	0.39 U	0.39 U
Mirex	ug/kg	0.48 U	0.37 U	0.39 U	0.36 U	0.40 U	0.12 J FD, Z	0.39 U
Aldrin	ug/kg	0.18 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.19 U
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.19 U
Beta-BHC	ug/kg	0.18 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.19 U
Delta-BHC	ug/kg	0.18 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.19 U
Endosulfan II	ug/kg	0.38 U	0.37 UJ L	0.39 U	0.36 U	0.40 U	0.39 U	0.39 U
4,4'-DDT	ug/kg	12	5.8	0.7	0.36 U	1	0.52	0.48
Endrin Ketone	ug/kg	0.38 U	0.37 U	0.39 U	0.36 U	0.40 U	0.39 U	0.39 U
Chlordane	ug/kg	3.8 U	2.6 J Z	3.9 U	3.6 U	1.1 J Z	0.98 J FD, Z	4.4
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.19 U
Dieldrin	ug/kg	3.8 U	0.85 U	0.39 U	0.36 U	0.40 U	0.11 J FD, Z	0.21 J Z
Endrin	ug/kg	0.38 U	0.37 U	0.39 U	0.36 U	0.40 U	0.39 U	0.39 U
Methoxychlor	ug/kg	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
4,4'-DDD	ug/kg	0.38 U	0.37 U	0.39 U	0.36 U	0.40 U	0.39 U	0.39 U
4,4'-DDE	ug/kg	0.49 U	0.55	0.39 U	0.36 U	0.40 U	0.39 U	0.19 J Z
Endrin Aldehyde	ug/kg	0.38 U	0.37 U	0.39 U	0.36 U	0.40 U	0.39 U	0.39 U
Heptachlor	ug/kg	0.18 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.19 U
Endosulfan I	ug/kg	0.18 U	0.18 U	0.19 U	0.17 U	0.19 U	0.19 U	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-024-SA5DN-SS-0.0-0.5	SL-025-SA5DN-SS-0.0-0.5	SL-026-SA5DN-SS-0.0-0.5	SL-027-SA5DN-SS-0.0-0.5	SL-028-SA5DN-SS-0.0-0.5	SL-029-SA5DN-SS-0.0-0.5	SL-030-SA5DN-SS-0.0-0.5
Sample Date		05/20/2011	05/20/2011	05/20/2011	05/20/2011	05/20/2011	05/20/2011	05/19/2011
SDG		DE158	DE158	DE158	DE158	DE158	DE158	DE157
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Dicamba	ug/kg	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.8 R L	2.8 R L	2.7 R L	2.8 R L	2.8 R L	2.8 R L	2.8 R L
MCPP	ug/kg	290 U	290 U	290 U	290 U	290 U	290 U	290 U
2,4,5-TP	ug/kg	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	0.20 U	0.20 U
2,4,5-T	ug/kg	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	0.20 U	0.20 U
MCPA	ug/kg	290 U	310 J *#	290 U	290 U	290 U	290 U	380
2,4-D	ug/kg	4.2 U	4.2 U	4.1 U	4.2 U	4.2 U	4.2 U	4.1 U
2,4 DB	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Toxaphene	ug/kg	7.6 U	7.7 U	7.6 U	7.7 U	7.6 UJ C	7.6 UJ C	7.6 U
Heptachlor Epoxide	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ C	0.19 UJ C	0.19 U
Endosulfan Sulfate	ug/kg	0.39 U	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
Mirex	ug/kg	0.19 J Z	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
Aldrin	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ C	0.19 UJ C	0.19 U
Alpha-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Beta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Delta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Endosulfan II	ug/kg	0.39 U	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	1.1 U
4,4'-DDT	ug/kg	1.8	0.55	1	1.2	0.80 J C	1.4 J C	0.51 U
Endrin Ketone	ug/kg	0.39 U	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
Chlordane	ug/kg	15	4.0 U	3.9 U	1.5 J Z, *#	3.9 U	2.8 J Z, *#	1.6 J Z
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Dieldrin	ug/kg	0.26 J Z, *#	0.11 J Z	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
Endrin	ug/kg	0.39 U	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
Methoxychlor	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 UJ C	1.9 UJ C	1.9 U
4,4'-DDD	ug/kg	0.39 U	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
4,4'-DDE	ug/kg	0.28 J Z	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
Endrin Aldehyde	ug/kg	0.082 J Z, *#	0.40 U	0.39 U	0.39 U	0.39 UJ C	0.39 UJ C	0.39 U
Heptachlor	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Endosulfan I	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ C	0.19 UJ C	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-031-SA5DN-SS-0.0-0.5	SL-032-SA5DN-SS-0.0-0.5	SL-033-SA5DN-SS-0.0-0.5	SL-034-SA5DN-SS-0.0-0.5	SL-035-SA5DN-SS-0.0-0.5	SL-036-SA5DN-SS-0.0-0.5	SL-037-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	05/19/2011	05/19/2011	05/19/2011	05/19/2011	05/20/2011	05/20/2011
SDG		DE157	DE157	DE157	DE157	DE157	DE158	DE158
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	2.0 U
Dicamba	ug/kg	1.4 U	1.3 U	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	10 U	11 U	9.9 U	10 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.8 R L	2.7 U	2.8 R L	2.6 U	2.8 U	2.7 R L	2.8 R L
MCPP	ug/kg	290 U	280 U	290 U	270 U	290 U	280 U	290 U
2,4,5-TP	ug/kg	0.20 U	0.19 U	0.20 U	0.091 J Z	0.10 J Z	0.19 U	0.20 U
2,4,5-T	ug/kg	0.20 U	0.10 J Z	0.20 U	0.4	0.20 U	0.19 U	0.20 U
MCPA	ug/kg	210 J Z	280 U	290 U	160 J Z	160 J Z	280 U	440
2,4-D	ug/kg	4.2 U	4.0 U	4.2 U	3.9 U	4.2 U	4.1 U	4.1 U
2,4 DB	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	3.2 U	1.5 J Z, *#	3.6 J *#
Toxaphene	ug/kg	7.7 UJ S	7.4 U	7.7 U	7.2 U	7.6 U	7.5 UJ C	7.5 UJ C
Heptachlor Epoxide	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.18 U	0.19 U	0.19 UJ C	0.19 UJ C
Endosulfan Sulfate	ug/kg	0.39 UJ S	0.38 U	0.40 U	0.37 U	0.39 U	0.39 UJ C	0.39 UJ C
Mirex	ug/kg	0.12 J S, Z	0.38 U	0.10 J Z	0.37 U	0.39 U	0.39 UJ C	0.39 UJ C
Aldrin	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.18 U	0.19 U	0.19 UJ C	0.19 UJ C
Alpha-BHC	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
Beta-BHC	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
Delta-BHC	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
Endosulfan II	ug/kg	0.39 UJ S	0.38 U	0.40 U	0.37 U	0.39 U	0.39 UJ C	0.39 UJ C
4,4'-DDT	ug/kg	0.78 J S, L	1.2 J L	0.35 J L, Z	0.37 U	1.3 J L	0.95 J C	1.4 J C
Endrin Ketone	ug/kg	0.39 UJ S	0.38 U	0.40 U	0.37 U	0.39 U	0.39 UJ C	0.39 UJ C
Chlordane	ug/kg	0.95 J S, Z	1.5 J Z	4.0 U	8.6 U	1.3 J Z	3.9 U	1.8 J Z
Gamma-BHC (Lindane)	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
Dieldrin	ug/kg	0.39 UJ S	0.38 U	0.40 U	5.9	0.18 J Z	0.39 UJ C	0.39 UJ C
Endrin	ug/kg	0.39 UJ S	0.38 U	0.40 U	0.37 U	0.39 U	0.39 UJ C	0.39 UJ C
Methoxychlor	ug/kg	1.9 UJ S	1.9 U	1.9 U	1.8 U	1.9 U	1.9 UJ C	1.9 UJ C
4,4'-DDD	ug/kg	0.39 UJ S	0.38 U	0.40 U	0.37 U	0.39 U	0.39 UJ C	0.39 UJ C
4,4'-DDE	ug/kg	0.15 J S, Z	0.38 U	0.40 U	2	1.1	0.39 UJ C	0.39 UJ C
Endrin Aldehyde	ug/kg	0.15 J S, Z	0.38 U	0.40 U	0.37 U	0.39 U	0.39 UJ C	0.39 UJ C
Heptachlor	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
Endosulfan I	ug/kg	0.19 UJ S	0.19 U	0.19 U	0.068 J Z	0.19 U	0.19 UJ C	0.19 UJ C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-038-SA5DN-SS-0.0-0.5	SL-039-SA5DN-SS-0.0-0.5	SL-040-SA5DN-SS-0.0-0.5	SL-041-SA5DN-SS-0.0-0.5	SL-042-SA5DN-SS-0.0-0.5	SL-043-SA5DN-SS-0.0-0.5	SL-044-SA5DN-SS-0.0-0.5
Sample Date		05/20/2011	05/20/2011	05/20/2011	05/19/2011	05/19/2011	05/19/2011	05/20/2011
SDG		DE158	DE158	DE158	DE157	DE157	DE157	DE158
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.0 U	2.0 U	2.0 U	2.0 U	3.1 UJ H	1.9 U	1.9 U
Dicamba	ug/kg	1.4 U	1.4 U	1.4 U	1.4 U	2.2 UJ H	1.4 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	10 U	10 U	10 U	17 UJ H	10 R Q	10 U
Dinitrobutyl Phenol	ug/kg	2.8 R L	2.8 R L	2.8 R L	2.8 U	4.4 UJ H	2.7 R L	2.7 R L
MCPP	ug/kg	290 U	290 U	290 U	290 U	460 UJ H	290 U	280 U
2,4,5-TP	ug/kg	0.20 U	0.20 U	0.20 U	0.20 U	0.31 UJ H	0.19 UJ FD	0.19 U
2,4,5-T	ug/kg	0.20 U	0.20 U	0.20 U	0.20 U	0.31 UJ H	0.19 U	0.19 U
MCPA	ug/kg	290 U	150 J Z, *#	340	290 U	460 UJ H	290 U	280 U
2,4-D	ug/kg	4.2 U	2.2 J Z, *#	2.4 J Z	4.2 U	6.6 UJ H	4.1 U	4.1 U
2,4 DB	ug/kg	2.0 U	2.1 U	2.0 U	2.0 U	3.1 UJ H	1.9 U	1.7 J Z, *#
Toxaphene	ug/kg	7.7 UJ C	7.7 UJ C	7.7 UJ C	7.7 U	12 U	7.6 U	7.5 UJ C
Heptachlor Epoxide	ug/kg	0.19 UJ C	0.19 UJ C	0.043 J Z, C, *#	0.19 U	0.31 U	0.19 U	0.19 UJ C
Endosulfan Sulfate	ug/kg	0.40 UJ C	0.40 UJ C	0.40 UJ C	0.39 U	0.63 U	0.39 U	0.38 UJ C
Mirex	ug/kg	0.40 UJ C	0.40 UJ C	0.19 J Z, C	0.39 U	0.28 J Z	0.39 U	0.19 J Z, C
Aldrin	ug/kg	0.19 UJ C	0.19 UJ C	0.19 UJ C	0.19 U	0.31 U	0.19 U	0.19 UJ C
Alpha-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.31 U	0.19 U	0.19 U
Beta-BHC	ug/kg	0.33	0.19 U	0.19 U	0.19 U	1.1	0.19 U	0.19 U
Delta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.31 U	0.19 U	0.19 U
Endosulfan II	ug/kg	0.40 UJ C	0.40 UJ C	0.40 UJ C	0.39 U	0.63 U	0.39 UJ Q	0.38 UJ C
4,4'-DDT	ug/kg	0.88 J C	0.86 J C	0.56 J C	1.9 J L	0.61 J L, Z	1.2 J Q, L	0.32 J Z, C
Endrin Ketone	ug/kg	0.40 UJ C	0.40 UJ C	0.40 UJ C	0.39 U	0.63 U	0.39 R Q	0.38 UJ C
Chlordane	ug/kg	4.4 J *#	1.3 J Z	4.0 U	2.7 J Z	6.3 U	4.6 J FD	3.8 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.31 U	0.19 U	0.19 U
Dieldrin	ug/kg	0.40 UJ C	0.40 UJ C	0.40 UJ C	0.45 U	0.63 U	0.39 UJ Q	0.38 UJ C
Endrin	ug/kg	0.40 UJ C	0.40 UJ C	0.40 UJ C	0.39 U	0.63 U	0.39 U	0.38 UJ C
Methoxychlor	ug/kg	1.9 UJ C	1.9 UJ C	1.9 UJ C	1.9 U	3.1 U	1.9 UJ Q	1.9 UJ C
4,4'-DDD	ug/kg	0.40 UJ C	0.40 UJ C	0.40 UJ C	0.39 U	0.63 U	0.39 U	0.38 UJ C
4,4'-DDE	ug/kg	0.40 UJ C	0.40 UJ C	0.11 J Z, C, *#	0.39 U	0.63 U	0.23 J FD, Q, Z	0.38 UJ C
Endrin Aldehyde	ug/kg	0.40 UJ C	0.40 UJ C	0.11 J Z, C	0.39 U	0.63 U	0.39 U	0.38 UJ C
Heptachlor	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.31 U	0.19 U	0.19 U
Endosulfan I	ug/kg	0.19 UJ C	0.19 UJ C	0.19 UJ C	0.19 U	0.31 U	0.19 R Q	0.19 UJ C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-045-SA5DN-SS-0.0-0.5	SL-046-SA5DN-SS-0.0-0.5	SL-047-SA5DN-SS-0.0-0.5	SL-048-SA5DN-SS-0.0-0.5	SL-049-SA5DN-SS-0.0-0.5	SL-050-SA5DN-SS-0.0-0.5	SL-051-SA5DN-SS-0.0-0.5
Sample Date		05/19/2011	05/19/2011	05/19/2011	05/19/2011	05/19/2011	05/20/2011	05/20/2011
SDG		DE157	DE157	DE157	DE157	DE157	DE158	DE158
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dicamba	ug/kg	1.4 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	0.49 J Z, *#
2,2-Dichlor-Propionic Acid	ug/kg	10 U	10 U	9.8 U	10 U	9.9 U	9.9 U	9.9 U
Dinitrobutyl Phenol	ug/kg	2.8 U	2.8 U	2.6 R L	2.7 U	2.7 U	2.6 R L	7.0 R L
MCPP	ug/kg	290 U	170 J Z	270 U	280 U	280 U	280 U	270 U
2,4,5-TP	ug/kg	0.20 U	0.25	0.17 J Q, Z	0.36	0.19 U	0.19 U	0.32 U
2,4,5-T	ug/kg	0.20 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.23
MCPA	ug/kg	290 U	290 U	270 U	110 J Z	400	600	1100
2,4-D	ug/kg	4.2 U	4.2 U	3.9 U	4.0 U	4.0 U	4.0 U	3.9 U
2,4 DB	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	5.3	5.6 U	6.9 J *#
Toxaphene	ug/kg	7.6 U	7.6 U	7.2 U	7.3 U	36 U	7.3 UJ C	7.3 UJ C
Heptachlor Epoxide	ug/kg	0.083 J S, Z	0.19 U	0.18 U	0.18 U	0.18 R S	0.18 UJ C	0.18 UJ C
Endosulfan Sulfate	ug/kg	0.39 U	0.39 U	0.37 U	0.38 U	1.9 U	0.37 UJ C	0.37 UJ C
Mirex	ug/kg	0.39 U	0.39 U	0.37 U	0.38 U	1.9 U	0.37 UJ C	0.074 J Z, C, *#
Aldrin	ug/kg	0.19 U	0.19 U	0.18 U	0.18 U	0.18 R S	0.18 UJ C	0.18 UJ C
Alpha-BHC	ug/kg	0.19 U	0.19 U	0.18 U	0.18 U	0.18 R S	0.18 U	0.18 U
Beta-BHC	ug/kg	0.19 U	0.19 U	0.18 U	0.18 U	0.18 R S	0.18 U	0.10 J Z
Delta-BHC	ug/kg	0.19 U	0.19 U	0.047 J Z	0.044 J Z	0.18 R S	0.18 U	0.18 U
Endosulfan II	ug/kg	0.39 U	0.39 U	0.37 U	0.38 U	1.3 J S	0.37 UJ C	0.37 UJ C
4,4'-DDT	ug/kg	0.92 J S, L	1.8 J L	2.0 J L	2.1 J L	5.5 U	1.7 J C	0.55 J C, *#
Endrin Ketone	ug/kg	0.37 J S, Z	0.39 U	0.37 U	0.38 U	1.9 U	0.37 UJ C	0.37 UJ C
Chlordane	ug/kg	1.0 J S, Z	2.3 J Z	2.8 J Z	2.8 J Z	4.0 J S	3.7 U	3.7 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.044 J Z	0.18 U	0.18 U	0.18 R S	0.18 U	0.18 U
Dieldrin	ug/kg	0.39 U	0.39 U	0.37 U	0.38 U	1.1 J S	0.37 UJ C	0.37 UJ C
Endrin	ug/kg	0.39 U	0.39 U	0.37 U	0.38 U	0.37 R S	0.37 UJ C	0.37 UJ C
Methoxychlor	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	9.1 U	1.8 UJ C	1.8 UJ C
4,4'-DDD	ug/kg	0.39 U	0.67 U	0.37 U	0.38 U	0.37 R S	0.18 J Z, C	0.37 UJ C
4,4'-DDE	ug/kg	0.31 J S, Z	0.39 U	0.66 U	0.51 U	0.37 R S	2.2 J C	0.84 J C
Endrin Aldehyde	ug/kg	0.39 U	2	2.5	2.3	1.9 U	0.37 UJ C	0.37 UJ C
Heptachlor	ug/kg	0.19 U	0.19 U	0.16 J Z	0.18 U	0.18 R S	0.18 U	0.18 U
Endosulfan I	ug/kg	0.19 U	0.19 U	0.18 U	0.18 U	0.18 R S	0.18 UJ C	0.18 UJ C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-052-SA5DN-SS-0.0-0.5	SL-053-SA5DN-SS-0.0-0.5	SL-054-SA5DN-SS-0.0-0.5	SL-055-SA5DN-SS-0.0-0.5	SL-056-SA5DN-SS-0.0-0.5	SL-057-SA5DN-SS-0.0-0.5	SL-058-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	05/23/2011	05/18/2011	05/18/2011	05/18/2011	05/24/2011	05/18/2011
SDG		DE159	DE159	DE154	DE154	DE154	DE163	DE154
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U
Dicamba	ug/kg	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.8 R L	2.7 R L	2.7 U	2.7 U	2.7 U	2.8 U	2.8 U
MCPP	ug/kg	290 U	280 U	280 U	280 U	280 U	290 UJ FD	290 U
2,4,5-TP	ug/kg	0.22	0.12 J Z	0.19 U	0.13 J Z	0.19 U	0.18 J FD, Z	0.20 U
2,4,5-T	ug/kg	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.20 U	0.20 U
MCPA	ug/kg	230 J Z	280 U	280 U	280 U	280 U	400 U	290 U
2,4-D	ug/kg	1.7 J Z	4.0 U	4.1 U	4.1 U	4.1 U	4.2 U	4.1 U
2,4 DB	ug/kg	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	8.1 U	3.4 U
Toxaphene	ug/kg	7.6 U	7.4 U	7.5 U	7.5 UJ S	7.4 UJ S	7.6 U	7.7 U
Heptachlor Epoxide	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.090 J Z
Endosulfan Sulfate	ug/kg	0.39 U	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
Mirex	ug/kg	0.39 U	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
Aldrin	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.19 U
Alpha-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.19 U
Beta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.19 U
Delta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.19 U
Endosulfan II	ug/kg	0.39 U	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
4,4'-DDT	ug/kg	0.28 J Z	0.95	1.9	1.1 J S	0.35 J S, Z	0.54 U	4.7
Endrin Ketone	ug/kg	0.39 U	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
Chlordane	ug/kg	1.2 J Z	3.8 U	2.2 J Z	1.9 J S, Z	3.8 UJ S	1.9 J FD, Z	4.6
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.19 U
Dieldrin	ug/kg	0.39 U	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
Endrin	ug/kg	0.39 U	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
Methoxychlor	ug/kg	1.9 U	1.9 U	1.9 U	1.9 UJ S	1.9 UJ S	1.9 U	1.9 U
4,4'-DDD	ug/kg	0.39 U	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
4,4'-DDE	ug/kg	0.14 J Z	0.38 U	0.38 U	0.39 UJ S	0.38 UJ S	0.39 U	4.4
Endrin Aldehyde	ug/kg	0.17 J Z	0.38 U	0.88	0.39 UJ S	0.38 UJ S	0.39 U	0.39 U
Heptachlor	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.19 U
Endosulfan I	ug/kg	0.19 U	0.19 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 U	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Pesticides-Validated Data
HSA-5DN

Sample Name		SL-059-SA5DN-SS-0.0-0.5	SL-060-SA5DN-SS-0.0-0.5	SL-064-SA5DN-SS-0.0-0.5	SL-065-SA5DN-SS-0.0-0.5	SL-066-SA5DN-SS-0.0-0.5	SL-067-SA5DN-SS-0.0-0.5	SL-071-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	05/25/2011	05/18/2011	05/18/2011	05/17/2011	05/17/2011	05/27/2011
SDG		DE154	DE163	DE154	DE154	DE152	DE152	DE167
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	1.8 U	2.0 U	1.2 J Z	2.8 U	1.9 U	1.9 U
Dicamba	ug/kg	1.4 U	1.3 U	0.54 J Z	0.72 J Z	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	9.7 U	10 U	10 U	9.9 U	9.9 U	9.8 U
Dinitrobutyl Phenol	ug/kg	2.7 U	2.6 U	2.8 U	2.7 U	2.6 U	2.6 U	2.6 U
MCPP	ug/kg	280 U	270 U	290 U	280 U	350 J S	120 J Z	270 U
2,4,5-TP	ug/kg	0.19 U	0.18 U	0.44	0.19 U	0.19 U	0.19 U	0.19 U
2,4,5-T	ug/kg	0.19 U	0.18 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U
MCPA	ug/kg	280 U	600	990	870	2400 J S	1200	510
2,4-D	ug/kg	4.1 U	3.9 U	4.2 U	4.1 U	4.0 U	4.0 U	3.9 U
2,4 DB	ug/kg	1.9 U	1.8 U	4.4 U	3.1 U	13 U	7.9 U	1.9 U
Toxaphene	ug/kg	7.5 U	7.1 U	7.6 UJ S	7.5 U	19 U	7.3 U	7.3 U
Heptachlor Epoxide	ug/kg	0.19 U	0.18 U	0.19 UJ S	0.15 J S, Z	0.18 U	0.18 U	0.32 U
Endosulfan Sulfate	ug/kg	0.38 U	0.37 U	0.39 UJ S	0.38 U	0.37 U	0.37 U	0.37 U
Mirex	ug/kg	0.23 J Z	1.9 U	0.39 UJ S	0.45 U	0.37 U	0.37 U	0.46 U
Aldrin	ug/kg	0.19 U	0.18 U	0.19 UJ S	0.19 U	0.18 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.19 U	0.18 U	0.19 UJ S	0.19 U	0.18 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.19 U	0.18 U	0.19 UJ S	0.82 J S	0.18 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.19 U	0.18 U	0.19 UJ S	0.19 U	0.18 U	0.18 U	0.18 U
Endosulfan II	ug/kg	0.38 U	0.37 U	0.39 UJ S	0.38 U	0.37 U	0.37 U	0.37 U
4,4'-DDT	ug/kg	0.26 J Z	2.2 U	4.5	4.3	6.7	1.3 J S	0.82
Endrin Ketone	ug/kg	0.38 U	0.37 U	0.39 UJ S	0.38 U	0.37 U	0.37 U	0.23 J Z
Chlordane	ug/kg	3.8 U	5.3 J S	13 J S	5.2 J S	5.6 U	3.7 U	3.7 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.068 J S, Z	0.19 UJ S	0.10 J S, Z	0.18 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.38 U	0.37 U	0.39 UJ S	0.38 U	0.37 U	0.37 U	0.37 U
Endrin	ug/kg	0.38 U	0.37 U	0.39 UJ S	0.38 U	0.37 U	0.37 U	0.37 U
Methoxychlor	ug/kg	1.9 U	1.8 U	1.9 UJ S	1.9 U	1.8 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.38 U	0.37 U	0.39 UJ S	0.87 U	0.37 U	0.80 U	0.37 U
4,4'-DDE	ug/kg	0.38 U	0.63 U	0.84 J S	1.5 J S	3.6	1.1 J S	0.42 U
Endrin Aldehyde	ug/kg	0.17 J Z	0.73 U	0.39 UJ S	0.38 U	0.37 U	0.37 U	0.37 U
Heptachlor	ug/kg	0.19 U	0.18 U	0.19 UJ S	0.19 U	0.18 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.19 U	0.18 U	0.19 UJ S	0.19 U	0.18 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-072-SA5DN-SS-0.0-0.5	SL-074-SA5DN-SS-0.0-0.5	SL-075-SA5DN-SS-0.0-0.5	SL-076-SA5DN-SS-0.0-0.5	SL-079-SA5DN-SS-0.0-0.5	SL-080-SA5DN-SS-0.0-0.5	SL-081-SA5DN-SS-0.0-0.5
Sample Date		05/17/2011	05/17/2011	05/17/2011	05/17/2011	05/17/2011	05/17/2011	05/17/2011
SDG		DE152	DE152	DE152	DE152	DE152	DE152	DE152
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.3 J FD, Z	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.8 U
Dicamba	ug/kg	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	9.9 U	11 U	9.9 U	9.9 U	10 U	9.7 U
Dinitrobutyl Phenol	ug/kg	2.7 U	2.6 U	2.9 U	2.6 U	2.6 U	2.7 U	2.6 U
MCPP	ug/kg	280 U	350	300 U	170 J Z	280 U	2800 U	270 U
2,4,5-TP	ug/kg	0.19 U	0.19 U	0.21 U	1.9 U	0.19 U	0.19 U	0.19 U
2,4,5-T	ug/kg	0.19 UJ FD	0.19 U	0.21 U	0.19 U	0.19 U	0.19 U	0.18 U
MCPA	ug/kg	480 UJ FD	410	300 U	270 U	310 U	200 J Z	470 J S
2,4-D	ug/kg	4.0 U	4.0 U	4.3 U	3.9 U	4.0 U	4.0 U	3.9 U
2,4 DB	ug/kg	2.6	8.7 U	1.2 J Z	4.4 U	4.0 U	3.9 U	7.3 J S
Toxaphene	ug/kg	7.4 U	7.3 U	8.0 U	7.2 U	7.3 U	7.3 U	7.1 U
Heptachlor Epoxide	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg	0.38 U	0.37 U	0.41 U	0.37 U	0.38 U	0.38 U	0.37 U
Mirex	ug/kg	0.38 U	0.37 U	2	0.37 U	0.39 U	0.38 U	0.37 U
Aldrin	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.040 J FD, Z	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.19 R Q	0.18 U	0.20 U	0.18 U	0.15 J Z	0.18 U	0.18 U
Delta-BHC	ug/kg	0.18 J FD, Z	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U
Endosulfan II	ug/kg	0.38 U	0.37 U	0.16 J Z	0.37 U	0.38 U	0.38 U	0.37 U
4,4'-DDT	ug/kg	1.1 U	1.4	0.41 U	1.7 J S	1.8	1.3	1.5 J S
Endrin Ketone	ug/kg	0.38 U	0.099 J Z	0.41 U	0.37 U	0.38 U	0.38 U	0.37 U
Chlordane	ug/kg	3.8 U	3.7 U	4.1 U	3.8 U	3.8 U	3.4 J Z	2.6 J S, Z
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.18 U	0.20 U	0.076 J S, Z	0.18 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.38 U	0.37 U	0.41 U	0.37 U	0.44	0.38 U	0.47 J S
Endrin	ug/kg	0.38 U	0.37 U	0.41 U	0.37 U	0.38 U	0.38 U	0.37 U
Methoxychlor	ug/kg	1.9 U	1.8 U	2.0 U	1.8 U	1.8 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.38 U	0.37 U	0.41 U	0.37 U	0.38 U	0.38 U	0.41 U
4,4'-DDE	ug/kg	0.38 U	0.57	0.41 U	0.36 J S, Z	0.55	0.45	0.39 J S
Endrin Aldehyde	ug/kg	0.38 U	0.37 U	0.41 U	0.37 U	0.38 U	0.38 U	0.37 U
Heptachlor	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Pesticides-Validated Data
HSA-5DN

Sample Name		SL-082-SA5DN-SS-0.0-0.5	SL-083-SA5DN-SS-0.0-0.5	SL-084-SA5DN-SS-0.0-0.5	SL-086-SA5DN-SS-0.0-0.5	SL-087-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SS-0.0-0.5	SL-089-SA5DN-SS-0.0-0.5
Sample Date		05/17/2011	05/17/2011	05/17/2011	05/18/2011	05/18/2011	05/18/2011	05/18/2011
SDG		DE152	DE152	DE152	DE154	DE154	DE154	DE154
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	1.9 U	1.1 J Z	2.0 U	1.9 U	1.9 U	2.0 U
Dicamba	ug/kg	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	9.9 U	9.9 U	10 U	10 U	10 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.7 U	2.6 U	2.7 U	2.8 U	2.7 U	2.7 U	2.8 U
MCPP	ug/kg	280 U	280 U	88 J Z	290 U	280 U	280 U	290 U
2,4,5-TP	ug/kg	0.27 U	0.19 U	0.20 U	0.20 U	0.19 U	0.19 U	0.20 U
2,4,5-T	ug/kg	0.19 U	0.19 U	0.19 U	0.20 U	0.29	0.19 U	0.20 U
MCPA	ug/kg	1100 J S	1200	690	290 U	280 U	280 U	290 U
2,4-D	ug/kg	4.0 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.2 U
2,4 DB	ug/kg	1.9 U	9.1	29 U	6.4	1.9 U	7.2 U	2.1 J FD, Q
Toxaphene	ug/kg	7.3 U	7.3 U	7.4 U	7.7 UJ S	7.4 UJ S	7.4 R S	7.7 U
Heptachlor Epoxide	ug/kg	0.21 U	0.066 J Z	0.19 U	0.19 UJ S	0.19 UJ S	0.19 R S	0.19 U
Endosulfan Sulfate	ug/kg	0.38 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.39 U
Mirex	ug/kg	0.38 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.39 U
Aldrin	ug/kg	0.18 U	0.18 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 R S	0.19 U
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 R S	0.19 U
Beta-BHC	ug/kg	0.18 U	0.18 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 R S	0.19 R Q
Delta-BHC	ug/kg	0.18 U	0.18 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 R S	0.19 U
Endosulfan II	ug/kg	0.38 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.39 U
4,4'-DDT	ug/kg	2.6 J Z	0.9	1.5 J S	0.10 J S, Z	0.86 J S	0.31 J S, Z	1.2 J FD, Q
Endrin Ketone	ug/kg	0.38 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.32 J FD, Q, Z
Chlordane	ug/kg	38 U	3.8 U	3.3 J S, Z	1.3 J S, Z	1.6 J S, Z	3.8 R S	3.9 U
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 R S	0.19 U
Dieldrin	ug/kg	1.6 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.39 U
Endrin	ug/kg	0.38 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.39 U
Methoxychlor	ug/kg	1.8 U	1.8 U	1.9 U	1.9 UJ S	1.9 UJ S	1.9 R S	1.9 U
4,4'-DDD	ug/kg	0.38 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.26 J FD, Z
4,4'-DDE	ug/kg	1.9 J S	0.38 U	0.36 J S, Z	0.40 UJ S	0.096 J S, Z	0.23 J S, Z	0.39 J Q
Endrin Aldehyde	ug/kg	0.49 U	0.38 U	0.38 U	0.40 UJ S	0.38 UJ S	0.38 R S	0.39 U
Heptachlor	ug/kg	0.18 U	0.18 U	0.19 U	0.19 UJ S	0.19 UJ S	0.12 J S, Z	0.10 J FD, Z
Endosulfan I	ug/kg	0.18 U	0.18 U	0.19 U	0.19 UJ S	0.19 UJ S	0.19 R S	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-090-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SS-0.0-0.5	SL-092-SA5DN-SS-0.0-0.5	SL-093-SA5DN-SS-0.0-0.5	SL-094-SA5DN-SS-0.0-0.5	SL-095-SA5DN-SS-0.0-0.5	SL-097-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	05/27/2011	05/27/2011	05/27/2011	05/31/2011	05/31/2011	05/31/2011
SDG		DE154	DE167	DE167	DE167	DE169	DE169	DE169
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
Dicamba	ug/kg	1.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	11 U	9.8 U	10 U	9.8 U	9.9 U	9.6 U	10 U
Dinitrobutyl Phenol	ug/kg	3.0 U	2.6 U	2.7 U	2.6 U	2.6 U	2.6 U	2.7 U
MCPP	ug/kg	310 U	270 U	280 U	270 U	280 U	270 U	280 U
2,4,5-TP	ug/kg	0.21 U	0.10 J Z	0.16 J Z	0.15 J Z	0.097 J Z	0.26	0.22
2,4,5-T	ug/kg	0.21 U	0.19 U	0.19 U	0.18 U	0.19 U	0.32 U	0.19 U
MCPA	ug/kg	310 U	270 U	280 U	730	280 U	1000	780 U
2,4-D	ug/kg	4.5 U	3.9 U	4.0 U	3.9 U	4.0 U	3.8 U	4.0 U
2,4 DB	ug/kg	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	2.5 U	5.5 U
Toxaphene	ug/kg	4.3 J Z	7.2 U	7.4 U	7.2 U	7.3 U	7.1 U	7.4 U
Heptachlor Epoxide	ug/kg	0.21 U	0.050 J Z	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Endosulfan Sulfate	ug/kg	0.42 U	0.37 U	0.27 J Z	0.37 U	0.38 U	0.36 U	0.38 U
Mirex	ug/kg	0.26 J Z	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U	0.38 U
Aldrin	ug/kg	0.21 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Alpha-BHC	ug/kg	0.21 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Beta-BHC	ug/kg	0.21 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Delta-BHC	ug/kg	0.21 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Endosulfan II	ug/kg	0.42 U	0.37 U	0.71	0.37 U	0.38 U	0.36 U	0.38 U
4,4'-DDT	ug/kg	0.17 J Z	0.85	1.8	1.3	2.0 J Q	3.6	0.98
Endrin Ketone	ug/kg	0.42 U	0.37 U	0.38 U	0.37 U	0.38 R Q	0.36 U	0.38 U
Chlordane	ug/kg	4.2 U	2.3 J Z	2.7 J Z	2.4 J Z	2.0 J Z	4.7	1.4 J Z
Gamma-BHC (Lindane)	ug/kg	0.21 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Dieldrin	ug/kg	0.42 U	0.37 U	0.38 U	0.37 U	0.38 U	1.2	0.38 U
Endrin	ug/kg	0.42 U	0.37 U	0.38 U	0.37 U	0.49 R Q	0.36 U	0.38 U
Methoxychlor	ug/kg	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U
4,4'-DDD	ug/kg	0.42 U	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U	0.38 U
4,4'-DDE	ug/kg	0.42 U	0.79	0.74	0.62	0.68 J Q	1	0.4
Endrin Aldehyde	ug/kg	0.42 U	0.37 U	0.38 U	0.37 U	0.38 U	0.36 U	0.38 U
Heptachlor	ug/kg	0.31	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U
Endosulfan I	ug/kg	0.21 U	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA5DN-SS-0.0-0.5	SL-099-SA5DN-SS-0.0-0.5	SL-100-SA5DN-SS-0.0-0.5	SL-101-SA5DN-SS-0.0-0.5	SL-102-SA5DN-SS-0.0-0.5	SL-103-SA5DN-SS-0.0-0.5	SL-104-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	05/31/2011	06/01/2011	05/31/2011	05/31/2011	05/31/2011	05/31/2011
SDG		DE169	DE169	DE170	DE169	DE169	DE169	DE169
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U
Dicamba	ug/kg	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	9.5 U	9.6 U	9.6 U	9.8 U	9.8 U	9.5 U
Dinitrobutyl Phenol	ug/kg	2.7 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U
MCPP	ug/kg	280 U	260 U	270 U	340 U	270 U	270 U	270 U
2,4,5-TP	ug/kg	0.19 U	0.28	0.18 U	0.18 U	0.27	0.3	0.17 J Z
2,4,5-T	ug/kg	0.19 U	0.18 U	0.18 U	0.27 U	0.18 U	0.19 U	0.18 U
MCPA	ug/kg	760 U	700	360	130 J Z	840 U	1000	530
2,4-D	ug/kg	4.0 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
2,4 DB	ug/kg	6.0 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U
Toxaphene	ug/kg	7.4 U	7.0 U	7.0 UJ S	7.1 U	7.2 U	7.2 U	7.0 R S
Heptachlor Epoxide	ug/kg	0.19 U	0.19 J S	0.18 UJ S	0.18 U	0.18 U	0.18 U	0.18 R S
Endosulfan Sulfate	ug/kg	0.38 U	0.36 U	0.36 UJ S	0.36 U	0.37 U	0.37 U	7.3 U
Mirex	ug/kg	0.38 U	0.36 U	0.36 UJ S	0.46 U	0.37 U	0.37 U	7.3 U
Aldrin	ug/kg	0.19 U	0.18 U	0.18 UJ S	0.18 U	0.18 U	0.18 U	0.18 R S
Alpha-BHC	ug/kg	0.045 J S, Z	0.18 U	0.18 UJ S	0.18 U	0.18 U	0.18 U	0.18 R S
Beta-BHC	ug/kg	0.19 U	0.18 U	0.18 UJ S	0.18 U	0.18 U	0.18 U	0.18 R S
Delta-BHC	ug/kg	0.090 J S, Z	0.18 U	0.18 UJ S	0.18 U	0.18 U	0.18 U	0.087 J S, Z
Endosulfan II	ug/kg	0.45 U	0.36 U	0.36 UJ S	0.36 U	0.37 U	0.37 U	0.36 R S
4,4'-DDT	ug/kg	2.4 J S	2.8 J S	1.9 J L	2.6 J S	2.1 J S	5	3.7 J Z
Endrin Ketone	ug/kg	0.38 U	0.36 U	0.36 UJ S	0.36 U	0.37 U	0.37 U	7.3 U
Chlordane	ug/kg	3.8 U	4.2 J S	2.2 J S, Z	5.7 J S	3.0 J S, Z	3.7 U	3.6 R S
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.18 U	0.18 UJ S	0.11 J S, Z	0.18 U	0.18 U	0.18 R S
Dieldrin	ug/kg	0.49 J S	0.82 J S	0.36 UJ S	0.36 U	0.46 J S	0.63	1.4 R S
Endrin	ug/kg	0.38 U	0.36 U	0.36 UJ S	0.36 U	0.43 U	0.37 U	0.36 R S
Methoxychlor	ug/kg	1.9 U	1.8 U	1.8 UJ S	1.8 U	1.8 U	1.8 U	35 U
4,4'-DDD	ug/kg	2.7 U	0.36 U	0.36 UJ S	0.36 U	0.37 U	0.51 U	2.2 R S
4,4'-DDE	ug/kg	3.1 J S	5.1	2.5	1.4 J S	2.5 J S	14	15
Endrin Aldehyde	ug/kg	0.38 U	0.36 U	0.36 UJ S	0.36 U	0.37 U	0.37 U	7.3 U
Heptachlor	ug/kg	0.15 J S, Z	0.18 U	0.18 UJ S	0.28 J S	0.18 U	0.18 U	0.18 R S
Endosulfan I	ug/kg	0.19 U	0.18 U	0.18 UJ S	0.18 U	0.18 U	0.18 U	0.18 R S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-105-SA5DN-SS-0.0-0.5	SL-106-SA5DN-SS-0.0-0.5	SL-107-SA5DN-SS-0.0-0.5	SL-108-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SS-0.0-0.5	SL-110-SA5DN-SS-0.0-0.5	SL-111-SA5DN-SS-0.0-0.5
Sample Date		06/01/2011	06/01/2011	06/01/2011	06/01/2011	06/01/2011	05/31/2011	05/31/2011
SDG		DE170	DE170	DE170	DE170	DE170	DE169	DE169
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.4 J Z	1.8 U	1.8 U	1.5 J Z	1.9 U
Dicamba	ug/kg	1.3 U	1.3 U	1.3 U	0.56 J FD, Z	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.6 U	9.6 U	9.4 U	9.4 U	9.7 U	9.8 U	10 U
Dinitrobutyl Phenol	ug/kg	2.6 U	2.6 U	2.5 U	2.5 U	2.6 U	2.6 U	2.7 U
MCPP	ug/kg	280	270 U	260 U	260 U	270 U	270 U	280 U
2,4,5-TP	ug/kg	0.18 U	0.090 J Z	0.18 U	0.11 J FD, Q, Z	0.12 J Z	0.18 J Z	0.19 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
MCPA	ug/kg	510	660 U	510	820 J FD, Q	570	1300	630
2,4-D	ug/kg	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U	4.0 U
2,4 DB	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U
Toxaphene	ug/kg	7.0 UJ S	7.0 UJ S	6.9 U	7.0 U	7.2 U	7.2 U	7.3 U
Heptachlor Epoxide	ug/kg	0.22 UJ S	0.18 UJ S	0.17 U	0.18 U	0.33 U	0.18 U	0.10 J Z
Endosulfan Sulfate	ug/kg	0.36 UJ S	0.36 UJ S	0.35 U	0.36 U	0.37 U	0.37 U	0.38 U
Mirex	ug/kg	0.36 UJ S	0.36 UJ S	0.35 U	0.36 U	0.37 U	0.37 U	0.38 U
Aldrin	ug/kg	0.18 UJ S	0.18 UJ S	0.17 U	0.18 R Q	0.18 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.18 UJ S	0.18 UJ S	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.18 UJ S	0.18 UJ S	0.17 U	0.18 R Q	0.18 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.18 UJ S	0.18 UJ S	0.17 U	0.18 R Q	0.18 U	0.18 U	0.18 U
Endosulfan II	ug/kg	0.36 UJ S	0.36 UJ S	0.35 U	0.36 UJ Q	0.37 U	0.37 U	0.38 U
4,4'-DDT	ug/kg	3.8 J L	1.1 J S, L	26 J L	4.1 J L	4.7 J L	1.8	1.7
Endrin Ketone	ug/kg	0.36 UJ S	0.11 J S, Z	0.084 J Z	0.36 UJ Q	0.37 U	0.37 U	0.38 U
Chlordane	ug/kg	2.8 J S, Z	3.6 UJ S	5	3.3 J Z	3.6 J Z	2.0 J Z	2.5 J Z
Gamma-BHC (Lindane)	ug/kg	0.18 UJ S	0.18 UJ S	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.47 UJ S	0.11 J S, Z	1.9	0.39 U	0.47 U	0.37 U	0.29 J Z
Endrin	ug/kg	0.36 UJ S	0.099 J S, L, Z	0.35 U	0.36 U	0.71 U	0.37 U	0.38 U
Methoxychlor	ug/kg	1.8 UJ S	1.8 UJ S	0.49 J L, Z	1.8 U	1.8 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	1.5 J S	0.36 UJ S	1	0.42 U	0.45 U	0.37 U	0.35 J Z
4,4'-DDE	ug/kg	12	2.5 J S	29	9.8	14	3	2.6
Endrin Aldehyde	ug/kg	0.36 UJ S	0.081 J S, Z	0.35 U	0.36 U	0.37 U	0.37 U	0.11 J Z
Heptachlor	ug/kg	0.18 UJ S	0.18 UJ S	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.18 UJ S	0.18 UJ S	0.22 U	0.18 U	0.18 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Pesticides-Validated Data
HSA-5DN

Sample Name		SL-112-SA5DN-SS-0.0-0.5	SL-113-SA5DN-SS-0.0-0.5	SL-114-SA5DN-SS-0.0-0.5	SL-117-SA5DN-SS-0.0-0.5	SL-118-SA5DN-SS-0.0-0.5	SL-119-SA5DN-SS-0.0-0.5	SL-120-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	05/31/2011	05/31/2011	05/27/2011	05/27/2011	05/27/2011	05/27/2011
SDG		DE169	DE169	DE169	DE167	DE167	DE167	DE167
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Dicamba	ug/kg	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.8 U	9.9 U	9.5 U	9.9 U	9.9 U	9.9 U	9.8 U
Dinitrobutyl Phenol	ug/kg	2.6 U	2.6 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U
MCPP	ug/kg	270 U	270 U	270 U	280 U	270 U	280 U	270 U
2,4,5-TP	ug/kg	0.14 J Z	0.25	0.13 J Z	0.19 U	0.19 U	0.19 U	0.19 U
2,4,5-T	ug/kg	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U
MCPA	ug/kg	880 U	910	930	490 UJ FD	280	670	680
2,4-D	ug/kg	3.9 U	3.9 U	3.8 U	4.0 U	3.9 U	4.0 U	3.9 U
2,4 DB	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	5.2 U	1.9 U	1.9 U
Toxaphene	ug/kg	7.2 U	7.2 U	7.1 U	7.3 U	7.3 U	7.3 U	7.3 UJ S
Heptachlor Epoxide	ug/kg	0.31 U	0.18 U	0.18 U	0.095 J FD, S, Z	0.18 U	0.18 U	0.19 UJ S
Endosulfan Sulfate	ug/kg	0.37 U	0.37 U	0.36 U	0.38 U	0.37 U	0.38 U	0.37 UJ S
Mirex	ug/kg	0.37 U	0.37 U	0.36 U	0.38 UJ FD	0.31 J Z	0.38 U	0.37 UJ S
Aldrin	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 UJ S
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 UJ S
Beta-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 UJ S
Delta-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.086 J S, Z	0.18 UJ S
Endosulfan II	ug/kg	0.37 U	0.37 U	0.36 U	0.38 U	0.37 U	0.38 U	0.37 UJ S
4,4'-DDT	ug/kg	2.9 J S	3.5	1.3	1.1 J S	0.16 J Z	1.4 J S	1.4 J S
Endrin Ketone	ug/kg	0.37 U	0.37 U	0.36 U	0.38 U	0.37 U	0.38 U	0.37 UJ S
Chlordane	ug/kg	2.2 J S, Z	3.7 J S	3.6 U	2.3 J S, Z	3.7 U	5.6 J S	9.3 J S
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.043 J Z	0.18 U	0.18 U	0.18 U	0.18 UJ S
Dieldrin	ug/kg	0.37 U	0.53 U	1.2	0.38 U	0.37 U	0.84 U	2.9 UJ S
Endrin	ug/kg	0.37 U	0.37 U	0.41 U	0.38 U	0.37 U	0.38 U	0.37 UJ S
Methoxychlor	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ S
4,4'-DDD	ug/kg	0.81 U	0.37 U	0.36 U	0.38 U	0.076 J Z	0.38 U	0.37 UJ S
4,4'-DDE	ug/kg	5.7	7	0.38	0.52 J S	0.19 J Z	0.31 J S, Z	0.39 J S
Endrin Aldehyde	ug/kg	0.37 U	0.37 U	0.36 U	0.38 U	0.37 U	0.38 U	0.37 UJ S
Heptachlor	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 UJ S
Endosulfan I	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-121-SA5DN-SS-0.0-0.5	SL-122-SA5DN-SS-0.0-0.5	SL-123-SA5DN-SS-0.0-0.5	SL-124-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SS-0.0-0.5	SL-126-SA5DN-SS-0.0-0.5	SL-127-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	05/27/2011	06/01/2011	06/01/2011	05/31/2011	06/01/2011	06/01/2011
SDG		DE169	DE167	DE170	DE170	DE169	DE170	DE170
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.6 J Z	2.0 U	1.8 U	1.8 U	1.9 U	1.8 U	1.7 U
Dicamba	ug/kg	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.7 U	11 U	9.7 U	9.7 U	9.9 U	9.6 U	9.2 U
Dinitrobutyl Phenol	ug/kg	2.6 U	2.8 U	2.6 U	2.6 U	2.6 U	2.6 U	2.4 U
MCPP	ug/kg	270 U	290 U	270 U	270 U	280 U	270 U	250 U
2,4,5-TP	ug/kg	0.17 J Z	0.20 U	0.17 J Z	0.18 U	0.21 U	0.18 U	0.17 U
2,4,5-T	ug/kg	0.18 U	0.20 U	0.18 U	0.18 U	0.19 U	0.18 U	0.17 U
MCPA	ug/kg	830	450 U	1000	800	1200	990	900 U
2,4-D	ug/kg	3.9 U	4.2 U	3.9 U	3.9 U	4.0 U	3.9 U	3.7 U
2,4 DB	ug/kg	1.8 U	2.0 U	3.2 U	6.0 U	2.0 U	1.8 U	2.2 U
Toxaphene	ug/kg	7.1 U	7.8 U	7.1 U	7.2 UJ S	7.3 U	7.1 UJ S	6.7 U
Heptachlor Epoxide	ug/kg	0.18 U	0.22 U	0.18 U	0.18 UJ S	0.18 U	0.18 UJ S	0.30 U
Endosulfan Sulfate	ug/kg	0.39 U	0.40 U	0.37 U	0.37 UJ S	0.37 U	0.36 UJ S	0.35 U
Mirex	ug/kg	0.36 U	0.40 U	0.37 U	0.37 UJ S	0.37 U	0.36 UJ S	0.64 U
Aldrin	ug/kg	0.18 U	0.20 U	0.18 U	0.18 UJ S	0.18 U	0.18 UJ S	0.17 U
Alpha-BHC	ug/kg	0.18 U	0.20 U	0.18 U	0.18 UJ S	0.18 U	0.18 UJ S	0.17 U
Beta-BHC	ug/kg	0.18 U	0.20 U	0.18 U	0.18 UJ S	0.18 U	0.18 UJ S	0.17 U
Delta-BHC	ug/kg	0.076 J S, Z	0.20 U	0.18 U	0.18 UJ S	0.18 U	0.20 UJ S	0.17 U
Endosulfan II	ug/kg	0.36 U	0.40 U	0.37 U	0.37 UJ S	0.37 U	0.36 UJ S	0.35 U
4,4'-DDT	ug/kg	2.3 J S	1.3 J S	12 J L	0.44 J S, L	1	1.5 J S, L	2.0 J L
Endrin Ketone	ug/kg	0.36 U	0.40 U	0.37 U	0.37 UJ S	0.37 U	0.36 UJ S	0.35 U
Chlordane	ug/kg	4.6 J S	3.0 J S, Z	3.2 J S, Z	1.5 J S, Z	1.9 J Z	4.2 J S	14
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.20 U	0.18 U	0.18 UJ S	0.18 U	0.18 UJ S	0.17 U
Dieldrin	ug/kg	0.55 J S	0.40 U	1.5 U	0.37 UJ S	0.37 U	0.36 UJ S	0.35 U
Endrin	ug/kg	0.36 U	0.40 U	0.37 U	0.37 UJ S	0.37 U	0.36 UJ S	0.35 U
Methoxychlor	ug/kg	1.8 U	2.0 U	1.8 U	1.8 UJ S	1.8 U	1.8 UJ S	1.7 U
4,4'-DDD	ug/kg	0.36 U	0.40 U	0.47 U	0.37 UJ S	0.37 U	0.36 UJ S	0.35 U
4,4'-DDE	ug/kg	0.36 U	0.50 J S	77	0.76 J S	1.5	2.9	3
Endrin Aldehyde	ug/kg	0.36 U	0.40 U	0.37 U	0.37 UJ S	0.37 U	0.36 UJ S	0.35 U
Heptachlor	ug/kg	0.18 U	0.20 U	0.18 U	0.18 UJ S	0.18 U	0.18 UJ S	0.17 U
Endosulfan I	ug/kg	0.18 U	0.20 U	0.28 U	0.18 UJ S	0.18 U	0.18 UJ S	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-128-SA5DN-SS-0.0-0.5	SL-129-SA5DN-SS-0.0-0.5	SL-130-SA5DN-SS-0.0-0.5	SL-131-SA5DN-SS-0.0-0.5	SL-132-SA5DN-SS-0.0-0.5	SL-133-SA5DN-SS-0.0-0.5	SL-134-SA5DN-SS-0.0-0.5
Sample Date		06/01/2011	06/01/2011	06/01/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DE170	DE170	DE170	DE171	DE171	DE171	DE171
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	1.8 U	1.8 U	2.9	1.0 J Z	1.7 U	1.7 U
Dicamba	ug/kg	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	9.6 U	9.4 U	9.3 U	9.1 U	9.2 U	9.3 U
Dinitrobutyl Phenol	ug/kg	2.7 U	2.6 U	2.5 U	2.5 R L	2.4 R L	2.5 R L	2.5 R L
MCPP	ug/kg	280 U	270 U	260 U	260 U	130 J Z	260 U	260 U
2,4,5-TP	ug/kg	0.19 U	0.10 J Z	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.17 U
MCPA	ug/kg	280 U	1100 U	260 U	930	350 U	320	940
2,4-D	ug/kg	4.0 U	3.8 U	3.8 U	3.7 U	3.7 U	3.7 U	3.7 U
2,4 DB	ug/kg	1.9 U	5.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U
Toxaphene	ug/kg	7.4 R S	7.1 U	6.9 U	6.9 U	6.7 U	6.8 U	6.8 U
Heptachlor Epoxide	ug/kg	0.19 R S	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.38 R S	0.36 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Mirex	ug/kg	0.38 R S	0.36 U	0.44 U	0.35 U	0.35 U	0.35 U	0.35 U
Aldrin	ug/kg	0.19 R S	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.19 R S	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.19 R S	0.18 U	0.17 U	0.17 U	0.17 U	2.7	0.17 U
Delta-BHC	ug/kg	0.19 R S	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.38 R S	0.42 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
4,4'-DDT	ug/kg	0.38 R S	0.36 U	1.2 J S, L	1	1	2.4	1
Endrin Ketone	ug/kg	0.38 R S	0.36 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Chlordane	ug/kg	1.0 J S, Z	3.3 J S, Z	2.2 J S, Z	2.5 J Z	1.8 J Z	2.4 J Z	3.5 U
Gamma-BHC (Lindane)	ug/kg	0.19 R S	0.18 U	0.17 U	0.17 U	0.17 U	0.089 J Z	0.17 U
Dieldrin	ug/kg	0.38 R S	0.40 J S	0.35 U	2	0.59	0.81	0.24 J Z
Endrin	ug/kg	0.38 R S	0.36 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Methoxychlor	ug/kg	1.9 R S	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.38 R S	0.36 U	0.55 U	0.35 U	0.35 U	0.35 U	0.35 U
4,4'-DDE	ug/kg	0.38 R S	0.51 J S	0.99 J S	1.1	0.65	0.45	0.14 J Z
Endrin Aldehyde	ug/kg	0.38 R S	0.36 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Heptachlor	ug/kg	0.19 R S	0.10 J S, Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.19 R S	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-135-SA5DN-SS-0.0-0.5	SL-136-SA5DN-SS-0.0-0.5	SL-137-SA5DN-SS-0.0-0.5	SL-138-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SS-0.0-0.5	SL-140-SA5DN-SS-0.0-0.5	SL-141-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DE171	DE171	DE171	DE171	DE171	DE171	DE171
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.2 U	9.1 U	9.1 U	9.2 U	9.1 U	9.1 U	9.6 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.4 R L	2.4 R L	2.5 R L	2.7 R L	2.4 R L	2.6 R L
MCPP	ug/kg	260 U	250 U	250 U	260 U	250 U	250 U	270 U
2,4,5-TP	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.28
2,4,5-T	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U
MCPA	ug/kg	1400	710	540	290 J FD, Q	250 U	250 U	270 U
2,4-D	ug/kg	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U	3.7 U	3.8 U
2,4 DB	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	3.1 U	2.0 U	4.4 U
Toxaphene	ug/kg	6.7 U	6.7 UJ S	6.8 UJ S	6.8 U	6.7 U	6.7 U	7.1 U
Heptachlor Epoxide	ug/kg	0.17 U	0.063 J S, Z	0.035 J S, Z	0.17 U	0.17 U	0.25 U	0.43 U
Endosulfan Sulfate	ug/kg	0.35 U	0.35 UJ S	0.35 UJ S	0.35 U	0.34 U	0.35 U	0.36 U
Mirex	ug/kg	0.35 U	0.35 UJ S	0.14 J S, Z	0.35 UJ FD	0.34 U	0.35 U	0.36 U
Aldrin	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.18 U
Alpha-BHC	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.18 U
Beta-BHC	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.52
Delta-BHC	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.18 U
Endosulfan II	ug/kg	0.35 U	0.35 UJ S	0.35 UJ S	0.35 U	0.34 U	0.35 U	0.36 U
4,4'-DDT	ug/kg	0.84	2.5 J S	1.7 J S	0.35 UJ FD	0.34 U	3.1	2.2
Endrin Ketone	ug/kg	0.35 U	0.35 UJ S	0.35 UJ S	0.35 U	0.34 U	0.35 U	0.36 U
Chlordane	ug/kg	7.4	1.4 J S, Z	3.0 J S, Z	3.5 UJ FD	3.4 U	1.5 J Z	4.6
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.097 J Z
Dieldrin	ug/kg	1	0.26 J S, Z	1.1 J S	0.35 UJ FD	0.34 U	0.56 U	0.89 U
Endrin	ug/kg	0.35 U	0.35 UJ S	0.35 UJ S	0.35 U	0.34 U	0.35 U	0.36 U
Methoxychlor	ug/kg	1.7 U	1.7 UJ S	1.7 UJ S	1.7 U	1.7 U	1.7 U	1.8 U
4,4'-DDD	ug/kg	0.35 U	0.35 UJ S	0.35 UJ S	0.35 U	0.34 U	0.35 U	0.36 U
4,4'-DDE	ug/kg	0.35 U	0.87 J S	0.42 J S	0.35 UJ FD	0.34 U	0.81	0.47
Endrin Aldehyde	ug/kg	0.35 U	0.35 UJ S	0.35 UJ S	0.35 UJ FD	0.34 U	0.35 U	0.58 U
Heptachlor	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.18 U
Endosulfan I	ug/kg	0.17 U	0.17 UJ S	0.17 UJ S	0.17 U	0.17 U	0.17 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Pesticides-Validated Data
HSA-5DN

Sample Name		SL-142-SA5DN-SS-0.0-0.5	SL-143-SA5DN-SS-0.0-0.5	SL-144-SA5DN-SS-0.0-0.5	SL-145-SA5DN-SS-0.0-0.5	SL-148-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SS-0.0-0.5	SL-150-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	06/02/2011	06/02/2011	06/02/2011	06/01/2011	06/02/2011	06/02/2011
SDG		DE171	DE171	DE171	DE171	DE170	DE171	DE171
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	0.87 J Z	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.4 U	9.3 U	9.2 U	9.4 U	9.6 U	9.6 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R L	2.5 R L	2.5 R L	2.5 U	2.6 R L	2.6 R L
MCPP	ug/kg	260 U	260 U	260 U	260 U	260 U	270 U	270 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.18 U	0.080 J Z	0.12 J Z	0.18 U	0.12 J Z
2,4,5-T	ug/kg	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	260 U	260 U	360 U	260 U	370 U	270 U	270 U
2,4-D	ug/kg	3.7 U	3.8 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U
2,4 DB	ug/kg	1.8 U	8.9 U	5.4 U	1.7 U	1.8 U	3.6 U	3.1 U
Toxaphene	ug/kg	6.9 U	6.9 U	6.8 U	6.8 U	6.9 U	7.1 U	7.1 U
Heptachlor Epoxide	ug/kg	0.43 U	0.17	0.17 U	0.17 U	0.81 U	0.18 U	0.13 J Z
Endosulfan Sulfate	ug/kg	0.35 U	0.36 U	0.35 U	0.35 U	0.36 U	0.37 U	0.36 U
Mirex	ug/kg	0.35 U	0.70 U	0.27 J Z	0.15 J Z	0.36 U	0.37 U	0.15 J Z
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.17 U	2.1	0.17 U	0.17 U	0.17 U	0.75	0.18 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.057 J Z
Endosulfan II	ug/kg	0.35 U	0.36 U	0.35 U	0.074 J Z	0.36 U	0.37 U	0.16 J Z
4,4'-DDT	ug/kg	2.4	4	0.81	0.58	0.57 J L	0.37 U	0.93
Endrin Ketone	ug/kg	0.35 U	0.36 U	0.35 U	0.35 U	0.36 U	0.37 U	0.36 U
Chlordane	ug/kg	5.3	4.9	3.1 J Z	1.9 J Z	3.6 U	3.7 U	2.1 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.35 U	0.63 U	0.35 U	0.10 J Z	0.36 U	0.37 U	0.36 U
Endrin	ug/kg	0.35 U	0.36 U	0.35 U	0.35 U	0.36 U	0.37 U	0.36 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.35 U	0.36 U	0.35 U	0.35 U	0.36 U	0.37 U	0.36 U
4,4'-DDE	ug/kg	0.9	0.82	0.44	0.82	0.64 U	0.12 J Z	0.88
Endrin Aldehyde	ug/kg	0.44 U	0.91	0.16 J Z	0.35 U	0.36 U	0.37 U	0.20 J Z
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-151-SA5DN-SS-0.0-0.5	SL-152-SA5DN-SS-0.0-0.5	SL-153-SA5DN-SS-0.0-0.5	SL-154-SA5DN-SS-0.0-0.5	SL-155-SA5DN-SS-0.0-0.5	SL-156-SA5DN-SS-0.0-0.5	SL-157-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	06/03/2011	06/03/2011	06/03/2011	06/03/2011	06/03/2011	06/03/2011
SDG		DE171	DE173	DE173	DE173	DE173	DE173	DE173
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U
Dicamba	ug/kg	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.46 J Z, *#
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.6 U	9.6 U	9.8 U	9.4 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.6 U	2.6 U	2.6 U	2.5 U	2.7 U	2.7 U
MCPP	ug/kg	260 U	270 U	270 U	270 U	260 U	280 U	280 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.19 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.19 U
MCPA	ug/kg	260 U	270 U	460 J *#	270 U	260 U	280 U	280 U
2,4-D	ug/kg	3.7 U	3.8 U	3.9 U	3.9 U	3.8 U	4.0 U	4.0 U
2,4 DB	ug/kg	5.5 U	1.8 U	1.8 U	1.9 U	2.0 U	4.7 U	2.1 U
Toxaphene	ug/kg	6.9 U	18 U	7.1 UJ S	7.3 U	6.9 U	7.4 U	7.4 U
Heptachlor Epoxide	ug/kg	0.17 U	0.45 U	0.18 UJ S	0.18 U	0.17 U	0.19 U	0.19 U
Endosulfan Sulfate	ug/kg	0.35 U	0.91 U	0.37 UJ S	0.37 U	0.36 U	0.38 U	0.38 U
Mirex	ug/kg	0.35 U	0.91 U	0.37 UJ S	0.37 U	0.36 U	0.38 U	0.38 U
Aldrin	ug/kg	0.17 U	0.45 U	0.18 UJ S	0.18 U	0.17 U	0.19 U	0.19 U
Alpha-BHC	ug/kg	0.17 U	0.45 U	0.18 UJ S	0.18 U	0.17 U	0.19 U	0.19 U
Beta-BHC	ug/kg	0.17 U	1.0 J *#	0.18 UJ S	0.15 J Z, *#	0.17 U	0.19 U	0.19 U
Delta-BHC	ug/kg	0.17 U	0.45 U	0.18 UJ S	0.18 U	0.063 J FD, Z	0.19 U	0.048 J Z, *#
Endosulfan II	ug/kg	0.35 U	0.91 U	0.099 J S, Z	0.37 U	0.15 J FD, Z	0.38 U	0.38 U
4,4'-DDT	ug/kg	0.35 U	0.91 U	0.37 UJ S	0.37 U	0.37 J FD	0.27 J Z, *#	0.39 U
Endrin Ketone	ug/kg	0.35 U	0.91 U	0.37 UJ S	0.14 J Z	0.36 UJ FD	0.14 J Z, *#	0.38 U
Chlordane	ug/kg	3.5 U	9.1 U	1.8 J S, Z, *#	3.1 J Z, *#	2.5 J Z	4.7 J *#	3.5 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.45 U	0.18 UJ S	0.18 U	0.17 U	0.19 U	0.19 U
Dieldrin	ug/kg	0.35 U	0.91 U	0.37 UJ S	0.37 U	0.36 U	0.38 U	0.38 U
Endrin	ug/kg	0.35 U	0.91 U	0.37 UJ S	0.37 U	0.36 U	0.38 U	0.38 U
Methoxychlor	ug/kg	1.7 U	4.5 U	1.8 UJ S	1.8 U	1.7 U	1.9 U	1.9 U
4,4'-DDD	ug/kg	0.35 U	0.26 J Z, *#	0.37 UJ S	0.37 U	0.36 U	0.44 J *#	0.38 U
4,4'-DDE	ug/kg	0.35 U	0.91 U	0.093 J S, Z	0.37 U	0.29 J FD, Z, *#	0.40 J *#	0.53 J *#
Endrin Aldehyde	ug/kg	0.35 U	0.91 U	0.37 UJ S	0.37 U	0.23 J FD, Z, *#	0.38 U	0.38 U
Heptachlor	ug/kg	0.17 U	0.45 U	0.18 UJ S	0.18 U	0.17 U	0.19 U	0.19 U
Endosulfan I	ug/kg	0.17 U	0.45 U	0.18 UJ S	0.18 U	0.17 U	0.19 U	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-158-SA5DN-SS-0.0-0.5	SL-159-SA5DN-SS-0.0-0.5	SL-160-SA5DN-SS-0.0-0.5	SL-162-SA5DN-SS-0.0-0.5	SL-164-SA5DN-SS-0.0-0.5	SL-165-SA5DN-SS-0.0-0.5	SL-166-SA5DN-SS-0.0-0.5
Sample Date		06/03/2011	06/03/2011	06/03/2011	06/03/2011	05/26/2011	05/26/2011	06/03/2011
SDG		DE173	DE173	DE173	DE173	DE166	DE166	DE173
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Dicamba	ug/kg	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.7 U	10 U	9.3 U	10 U	9.9 U	9.7 U	10 U
Dinitrobutyl Phenol	ug/kg	2.6 U	2.7 U	2.5 U	2.7 U	2.6 U	2.6 U	2.7 U
MCPP	ug/kg	270 U	280 U	260 U	280 U	270 U	270 U	280 U
2,4,5-TP	ug/kg	0.18 U	0.19 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U
2,4,5-T	ug/kg	0.18 U	0.19 U	0.18 U	0.19 U	0.19 U	0.18 U	0.19 U
MCPA	ug/kg	270 U	280 U	330 J *#	370	230 J Q, Z	340	500
2,4-D	ug/kg	3.9 U	4.0 U	3.7 U	4.0 U	3.9 U	3.9 U	4.0 U
2,4 DB	ug/kg	3.6 U	1.9 U	1.8 U	1.9 U	2.6 U	1.8 U	1.9 U
Toxaphene	ug/kg	7.1 UJ C	7.4 UJ C	6.8 UJ C	7.4 UJ C	7.3 UJ S	7.1 U	7.3 UJ S, C
Heptachlor Epoxide	ug/kg	0.18 UJ C	0.19 UJ C	0.17 UJ C	0.19 UJ C	0.18 UJ S	0.053 J Z	0.18 UJ S, C
Endosulfan Sulfate	ug/kg	0.37 UJ C	0.38 UJ C	0.35 UJ C	0.38 UJ C	0.37 UJ S	0.37 U	0.38 UJ S, C
Mirex	ug/kg	0.37 UJ C	0.38 UJ C	0.35 UJ C	0.38 UJ C	0.37 UJ S	0.37 U	0.38 UJ S, C
Aldrin	ug/kg	0.18 UJ C	0.19 UJ C	0.17 UJ C	0.19 UJ C	0.18 UJ S	0.18 U	0.18 UJ S, C
Alpha-BHC	ug/kg	0.18 UJ C	0.19 UJ C	0.17 UJ C	0.19 UJ C	0.18 UJ S	0.18 U	0.18 UJ S, C
Beta-BHC	ug/kg	0.18 UJ C	0.19 UJ C	0.17 UJ C	0.14 J Z, C	0.12 J S, Q, Z	0.18 U	0.18 UJ S, C
Delta-BHC	ug/kg	0.058 J Z, C, *#	0.067 J Z, C, *#	0.17 UJ C	0.042 J Z, C, *#	0.18 UJ S	0.18 U	0.18 UJ S, C
Endosulfan II	ug/kg	0.37 UJ C	0.38 UJ C	0.35 UJ C	0.38 UJ C	0.10 J S, Z	0.37 U	0.38 UJ S, C
4,4'-DDT	ug/kg	0.35 J Z, C, *#	0.81 UJ C	0.35 UJ C	0.51 J C	0.82 UJ S	1.5 J L	0.46 UJ S, C
Endrin Ketone	ug/kg	0.084 J Z, C	0.38 UJ C	0.35 UJ C	0.38 UJ C	0.37 UJ S	0.37 U	0.38 UJ S, C
Chlordane	ug/kg	2.1 J Z, C	3.3 J Z, C	1.1 J Z, C, *#	4.7 J C	2.5 J S, Z	2.1 J Z	1.1 J S, Z, C, *#
Gamma-BHC (Lindane)	ug/kg	0.18 UJ C	0.19 UJ C	0.17 UJ C	0.19 UJ C	0.18 UJ S	0.18 U	0.18 UJ S, C
Dieldrin	ug/kg	0.37 UJ C	0.38 UJ C	0.35 UJ C	0.38 UJ C	0.37 UJ S	0.5	0.38 UJ S, C
Endrin	ug/kg	0.37 UJ C	0.38 UJ C	0.35 UJ C	0.38 UJ C	0.37 UJ S	0.37 U	0.38 UJ S, C
Methoxychlor	ug/kg	1.8 UJ C	1.9 UJ C	1.7 UJ C	1.9 UJ C	1.8 UJ S	1.8 U	1.8 UJ S, C
4,4'-DDD	ug/kg	0.37 UJ C	0.38 UJ C	0.35 UJ C	0.31 J Z, C, *#	0.37 UJ S	0.37 U	0.38 UJ S, C
4,4'-DDE	ug/kg	0.60 J C, *#	1.1 UJ C	0.16 J Z, C, *#	0.52 UJ C	0.56 UJ S	0.79	0.38 UJ S, C
Endrin Aldehyde	ug/kg	0.37 UJ C	0.38 UJ C	0.35 UJ C	0.38 UJ C	0.37 UJ S	0.37 U	0.13 J S, Z, C
Heptachlor	ug/kg	0.18 UJ C	0.19 UJ C	0.17 UJ C	0.19 UJ C	0.18 UJ S	0.18 U	0.18 UJ S, C
Endosulfan I	ug/kg	0.18 UJ C	0.19 UJ C	0.064 J Z, C	0.19 UJ C	0.18 UJ S	0.18 U	0.18 UJ S, C

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-170-SA5DN-SS-0.0-0.5	SL-171-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SS-0.0-0.5	SL-173-SA5DN-SS-0.0-0.5	SL-174-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SS-0.0-0.5	SL-176-SA5DN-SS-0.0-0.5
Sample Date		05/26/2011	05/26/2011	05/26/2011	05/26/2011	05/26/2011	05/26/2011	05/26/2011
SDG		DE166	DE166	DE166	DE166	DE166	DE166	DE166
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.2 U	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.6 U	9.7 U	9.5 U	9.3 U	9.6 U	9.3 U
Dinitrobutyl Phenol	ug/kg	2.5 U	2.5 U	2.6 U	2.5 U	2.5 U	2.6 U	2.5 U
MCPP	ug/kg	260 U	270 U	270 U	500 U	260 U	270 U	260 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	160 J Z	270 U	220 J Z	260 U	540 U	270 U	260
2,4-D	ug/kg	3.7 U	3.8 U	3.9 U	3.8 U	3.7 U	3.8 U	3.7 U
2,4 DB	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Toxaphene	ug/kg	6.8 U	7.0 U	7.1 UJ S	6.9 U	6.9 U	7.1 U	6.9 U
Heptachlor Epoxide	ug/kg	1.8 U	0.18 U	0.18 UJ S	0.17 U	0.17 U	0.18 U	0.21 U
Endosulfan Sulfate	ug/kg	0.35 U	0.36 U	0.37 UJ S	0.36 U	0.35 U	0.36 U	0.35 U
Mirex	ug/kg	0.35 U	0.73 U	0.37 UJ S	0.79 U	0.35 U	0.36 U	0.35 U
Aldrin	ug/kg	0.17 U	0.18 U	0.18 UJ S	0.17 U	0.17 U	0.18 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.18 U	0.18 UJ S	0.17 U	0.17 U	0.18 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.27 J S	0.18 UJ S	0.17 U	0.17 U	0.18 U	0.17 U
Delta-BHC	ug/kg	0.17 U	0.18 U	0.18 UJ S	0.067 J S, Z	0.17 U	0.18 U	0.17 U
Endosulfan II	ug/kg	0.35 U	0.36 U	0.37 UJ S	0.36 U	0.35 U	0.36 U	0.35 U
4,4'-DDT	ug/kg	2.6 U	0.95 U	0.50 UJ S	1.9 J S, L	0.35 U	0.59 U	1.7 J L
Endrin Ketone	ug/kg	0.35 U	0.36 U	0.37 UJ S	0.36 U	0.35 U	0.36 U	0.35 U
Chlordane	ug/kg	3.5 U	1.2 J S, Z	5.1 J S	2.3 J S, Z	3.5 U	3.6 U	3.5 U
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.041 J S, Z	0.18 UJ S	0.17 U	0.17 U	0.18 U	0.17 U
Dieldrin	ug/kg	1.1 U	0.36 U	0.37 UJ S	0.36 U	0.35 U	0.36 U	0.88 U
Endrin	ug/kg	0.35 U	0.36 U	0.37 UJ S	0.36 U	0.35 U	0.36 U	0.35 U
Methoxychlor	ug/kg	1.7 U	1.8 U	1.8 UJ S	1.7 U	1.7 U	1.8 U	1.7 U
4,4'-DDD	ug/kg	0.35 U	0.36 U	0.37 UJ S	0.36 U	0.35 U	0.36 U	0.35 U
4,4'-DDE	ug/kg	1.3 U	0.36 U	0.37 UJ S	0.36 U	0.35 U	0.36 U	0.50 U
Endrin Aldehyde	ug/kg	0.35 U	0.36 U	0.37 UJ S	0.43 U	0.35 U	0.36 U	0.35 U
Heptachlor	ug/kg	0.17 U	0.18 U	0.18 UJ S	0.17 U	0.17 U	0.18 U	0.86 U
Endosulfan I	ug/kg	0.17 U	0.18 U	0.18 UJ S	0.17 U	0.17 U	0.18 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-179-SA5DN-SS-0.0-0.5	SL-180-SA5DN-SS-0.0-0.5	SL-181-SA5DN-SS-0.0-0.5	SL-182-SA5DN-SS-0.0-0.5	SL-183-SA5DN-SS-0.0-0.5	SL-184-SA5DN-SS-0.0-0.5	SL-185-SA5DN-SS-0.0-0.5
Sample Date		05/26/2011	05/26/2011	05/26/2011	05/26/2011	05/26/2011	05/26/2011	05/24/2011
SDG		DE166	DE166	DE166	DE166	DE166	DE166	DE163
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U
Dicamba	ug/kg	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.4 U	9.4 U	9.5 U	9.5 U	9.2 U	9.6 U	9.9 U
Dinitrobutyl Phenol	ug/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U
MCPP	ug/kg	260 U	260 U	260 U	160 J Z	260 U	270 U	280 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.19 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.19 U
MCPA	ug/kg	260 U	210 J Z	660	260 U	260 U	270 U	320 U
2,4-D	ug/kg	3.8 U	3.7 U	3.8 U	3.8 U	3.7 U	3.8 U	4.0 U
2,4 DB	ug/kg	1.8 U	1.8 U	1.2 J Z	1.8 U	1.7 U	1.8 U	1.9 U
Toxaphene	ug/kg	6.9 U	6.9 U	7.0 U	7.0 U	6.8 U	7.0 U	7.3 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.051 J Z	0.18 U
Endosulfan Sulfate	ug/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.38 U
Mirex	ug/kg	0.36 U	0.36 U	0.36 U	0.36 U	2.2 J S	0.25 J Z	0.38 U
Aldrin	ug/kg	0.17 U	0.11 J S, Z	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan II	ug/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.38 U
4,4'-DDT	ug/kg	0.88 J L	0.36 U	2.4 J S, L	0.36 U	0.53 U	0.41 J L	0.38 U
Endrin Ketone	ug/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.11 J Z	0.38 U
Chlordane	ug/kg	3.6 U	3.6 U	3.6 U	3.6 U	3.5 U	1.6 J Z	3.8 U
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.36 U	11	0.36 U	0.36 U	0.35 U	0.36 U	0.38 U
Endrin	ug/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.38 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.38 U
4,4'-DDE	ug/kg	0.36 U	0.36 U	0.62 U	0.36 U	0.37 U	0.23 J Z	0.38 U
Endrin Aldehyde	ug/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	0.36 U	0.38 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-186-SA5DN-SS-0.0-0.5	SL-187-SA5DN-SS-0.0-0.5	SL-188-SA5DN-SS-0.0-0.5	SL-189-SA5DN-SS-0.0-0.5	SL-190-SA5DN-SS-0.0-0.5	SL-191-SA5DN-SS-0.0-0.5	SL-192-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	05/24/2011	05/24/2011	05/24/2011	05/25/2011	05/24/2011	05/24/2011
SDG		DE160	DE160	DE160	DE160	DE163	DE160	DE160
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	2.2 U	1.9 U	2.0 U	2.0 U	1.9 U	1.3 J Z
Dicamba	ug/kg	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.3 U	0.55 J Z
2,2-Dichlor-Propionic Acid	ug/kg	10 U	11 U	10 U	11 U	11 U	9.8 U	11 U
Dinitrobutyl Phenol	ug/kg	2.7 U	3.1 U	2.7 U	2.8 U	2.8 U	2.6 U	2.9 U
MCPP	ug/kg	290 U	320 U	290 U	290 U	300 U	270 U	310 U
2,4,5-TP	ug/kg	0.19 U	0.22 U	0.25	0.20 U	0.20 U	0.19 U	0.32
2,4,5-T	ug/kg	0.19 U	0.22 U	0.19 U	0.20 U	0.20 U	0.19 U	0.21 U
MCPA	ug/kg	760	320 U	830	290 U	300 U	910	310 U
2,4-D	ug/kg	4.1 U	4.6 U	4.1 U	4.2 U	4.3 U	3.9 U	7.9 U
2,4 DB	ug/kg	5.3 U	5.7 U	2.3 U	2.0 U	2.5 U	4.5 U	110
Toxaphene	ug/kg	7.5 U	8.4 U	7.6 U	7.7 U	7.8 U	7.2 U	8.1 U
Heptachlor Epoxide	ug/kg	0.19 U	0.44 U	0.19 U	0.19 U	0.20 U	0.18 U	0.20 U
Endosulfan Sulfate	ug/kg	0.39 U	0.71 U	0.39 U	0.40 U	0.40 U	0.37 U	0.42 U
Mirex	ug/kg	0.39 U	0.68 U	0.22 J Z	0.40 U	0.40 U	0.37 U	0.42 U
Aldrin	ug/kg	0.19 U	0.21 U	0.19 U	0.19 U	0.20 U	0.18 U	0.20 U
Alpha-BHC	ug/kg	0.19 U	0.21 U	0.19 U	0.19 U	0.20 U	0.18 U	0.20 U
Beta-BHC	ug/kg	0.19 U	0.21 U	0.19 U	0.19 U	0.20 U	0.18 U	0.20 U
Delta-BHC	ug/kg	0.19 U	0.27 J S	0.19 U	0.19 U	0.20 U	0.056 J Z	0.20 U
Endosulfan II	ug/kg	0.39 UJ L	1.5 UJ L	0.39 UJ L	0.40 UJ L	0.40 U	0.39 UJ L	0.42 UJ L
4,4'-DDT	ug/kg	1.5	4.1	0.6	1.4	0.60 U	1.6	0.53
Endrin Ketone	ug/kg	0.39 U	0.43 U	0.39 U	0.40 U	0.40 U	0.37 U	0.42 U
Chlordane	ug/kg	3.9 U	4.3 J S	1.9 J Z	1.5 J Z	2.4 J Z	3.7 U	3.4 J Z
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.21 U	0.19 U	0.19 U	0.20 U	0.18 U	0.080 J Z
Dieldrin	ug/kg	0.39 U	2.0 J S	0.39 U	0.40 U	0.40 U	0.43	0.42 U
Endrin	ug/kg	0.39 U	0.43 U	0.39 U	0.40 U	0.40 U	0.37 U	0.42 U
Methoxychlor	ug/kg	1.9 U	2.2 U	1.9 U	1.9 U	2.0 U	1.8 U	2.0 U
4,4'-DDD	ug/kg	0.39 U	0.43 U	0.39 U	0.40 U	0.40 U	0.37 U	0.42 U
4,4'-DDE	ug/kg	0.88	1.2 U	0.64	1.4	0.89	0.33 J Z	0.73
Endrin Aldehyde	ug/kg	0.39 U	0.43 U	0.39 U	0.40 U	0.40 U	0.37 U	0.42 U
Heptachlor	ug/kg	0.19 U	0.21 U	0.19 U	0.19 U	0.20 U	0.18 U	0.20 U
Endosulfan I	ug/kg	0.19 U	0.21 U	0.19 U	0.19 U	0.20 U	0.18 U	0.20 U

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R - Result is rejected

Sample Name		SL-193-SA5DN-SS-0.0-0.5	SL-194-SA5DN-SS-0.0-0.5	SL-195-SA5DN-SS-0.0-0.5	SL-196-SA5DN-SS-0.0-0.5	SL-197-SA5DN-SS-0.0-0.5	SL-198-SA5DN-SS-0.0-0.5	SL-199-SA5DN-SS-0.0-0.5
Sample Date		05/24/2011	05/24/2011	05/24/2011	05/24/2011	05/24/2011	05/24/2011	05/25/2011
SDG		DE160	DE160	DE160	DE160	DE160	DE160	DE163
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.9 U	2.1 U	2.1 U	2.0 U	2.0 U	1.9 U	2.4
Dicamba	ug/kg	1.3 U	1.5 U	1.5 U	1.4 U	1.4 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.8 U	11 U	11 U	10 U	10 U	9.9 U	9.9 U
Dinitrobutyl Phenol	ug/kg	2.6 U	3.0 U	3.0 U	2.8 U	2.8 U	2.6 U	2.6 U
MCPP	ug/kg	270 U	310 U	310 U	290 U	290 U	280 U	270 U
2,4,5-TP	ug/kg	0.19 U	0.21 U	0.21 U	0.20 U	0.20 U	0.19 U	0.17 J Z
2,4,5-T	ug/kg	0.19 U	0.21 U	0.21 U	0.20 U	0.20 U	0.19 U	0.19 U
MCPA	ug/kg	270 U	310 U	310 U	1300 U	290 U	100 J Z	270 U
2,4-D	ug/kg	1.8 J Z	2.3 J Z	4.5 U	1.9 J Z	4.2 U	4.0 U	4.0 U
2,4 DB	ug/kg	7.1 U	2.1 U	2.4 U	2.0 U	3.1 U	1.9 U	19 U
Toxaphene	ug/kg	7.2 U	8.3 U	8.2 U	7.6 U	7.7 U	7.3 U	7.3 U
Heptachlor Epoxide	ug/kg	0.14 J Z	0.21 U	0.21 U	0.069 J Z	0.19 U	0.18 U	4.3 U
Endosulfan Sulfate	ug/kg	0.37 U	0.43 U	0.42 U	0.39 U	0.39 U	0.37 U	0.37 U
Mirex	ug/kg	0.37 U	0.43 U	0.42 U	0.39 U	0.18 J Z	0.37 U	0.37 U
Aldrin	ug/kg	0.18 U	0.21 U	0.21 U	0.19 U	0.19 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.18 U	0.21 U	0.21 U	0.19 U	0.19 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.18 U	0.21 U	0.21 U	0.8	0.19 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.060 J Z	0.21 U	0.21 U	1.2	0.059 J Z	0.18 U	0.18 U
Endosulfan II	ug/kg	0.45 UJ L	0.43 UJ L	0.97 UJ L	0.39 UJ L	0.15 J L, Z	0.37 UJ L	0.58 U
4,4'-DDT	ug/kg	2.2	0.6	3.5	0.84	0.72	1.9	4.7 J L
Endrin Ketone	ug/kg	0.37 U	0.43 U	0.42 U	0.39 U	0.39 U	0.37 U	0.37 U
Chlordane	ug/kg	3.7 U	3.8 J Z	5.6	3.9 U	2.3 J Z	3.7 U	9.3
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.21 U	0.21 U	0.12 J Z	0.077 J Z	0.18 U	0.18 U
Dieldrin	ug/kg	0.6	0.43 U	1.2	0.39 U	0.39 U	1.1	0.37 U
Endrin	ug/kg	0.37 U	0.43 U	0.42 U	0.39 U	0.39 U	0.37 U	0.48 U
Methoxychlor	ug/kg	1.8 U	2.1 U	2.1 U	1.9 U	1.9 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.37 U	0.43 U	0.42 U	0.39 U	0.39 U	0.37 U	0.37 U
4,4'-DDE	ug/kg	0.65	1	0.5	1	0.87	0.53 U	2.7 U
Endrin Aldehyde	ug/kg	0.37 U	0.43 U	0.42 U	0.32 J Z	0.39 U	0.37 U	0.79 U
Heptachlor	ug/kg	0.18 U	0.21 U	0.21 U	0.19 U	0.19 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.18 U	0.21 U	0.21 U	0.29	0.19 U	0.18 U	0.18 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-200-SA5DN-SS-0.0-0.5	SL-201-SA5DN-SS-0.0-0.5	SL-202-SA5DN-SS-0.0-0.5	SL-203-SA5DN-SS-0.0-0.5	SL-204-SA5DN-SS-0.0-0.5	SL-205-SA5DN-SS-0.0-0.5	SL-206-SA5DN-SS-0.0-0.5
Sample Date		05/25/2011	05/25/2011	05/18/2011	05/24/2011	05/24/2011	05/25/2011	05/17/2011
SDG		DE164	DE164	DE154	DE161	DE161	DE164	DE152
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	2.0 U	2.0 U	1.9 U	2.0 U	2.0 U	2.0 U	2.0 U
Dicamba	ug/kg	1.4 U	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	11 U	10 U	11 U	11 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.8 U	2.8 U	2.7 U	2.8 R L	2.8 R L	2.8 U	2.7 U
MCPP	ug/kg	290 U	290 U	280 U	290 U	290 U	290 U	280 U
2,4,5-TP	ug/kg	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	0.20 U	0.22 U
2,4,5-T	ug/kg	0.20 U	0.20 U	0.19 U	0.20 U	0.20 U	0.20 U	0.19 U
MCPA	ug/kg	290 U	110 J FD, Z	280 U	290 U	290 U	290 U	980 J S
2,4-D	ug/kg	4.1 U	4.2 U	4.0 U	4.2 U	4.2 U	4.2 U	4.1 U
2,4 DB	ug/kg	2.0 U	2.0 U	3.1 U	2.6 U	2.0 U	2.0 U	7.2 U
Toxaphene	ug/kg	7.6 U	7.8 U	7.4 U	7.7 U	7.7 U	7.7 U	7.5 U
Heptachlor Epoxide	ug/kg	0.19 U	0.20 U	0.19 U	0.33	0.19 U	0.19 U	0.19 U
Endosulfan Sulfate	ug/kg	0.39 U	0.40 U	0.38 U	0.40 U	0.40 U	0.40 U	0.39 U
Mirex	ug/kg	0.39 U	0.40 U	0.38 U	0.40 U	0.40 U	0.40 U	0.47 J S
Aldrin	ug/kg	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Alpha-BHC	ug/kg	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Beta-BHC	ug/kg	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Delta-BHC	ug/kg	0.19 U	0.14 J Z	0.19 U	0.48 U	0.19 U	0.24	0.19 U
Endosulfan II	ug/kg	0.39 U	0.40 UJ FD	0.38 U	0.56	0.40 U	0.40 U	0.39 U
4,4'-DDT	ug/kg	0.35 J Z	1.3	4.5	2.6	0.17 J Z	1.7	1.1 J S
Endrin Ketone	ug/kg	0.39 U	0.40 U	0.38 U	0.40 U	0.40 U	0.40 U	0.39 U
Chlordane	ug/kg	1.9 J Z	1.9 J Z	3.8 U	4.0 U	4.0 U	3.6 J Z	3.9 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.20 U	0.19 U	0.15 J Z	0.19 U	0.19 U	0.19 U
Dieldrin	ug/kg	0.39 U	0.40 U	0.38 U	0.71	0.40 U	0.40 U	0.39 U
Endrin	ug/kg	0.39 U	0.40 U	0.38 U	0.40 U	0.40 U	0.40 U	0.39 U
Methoxychlor	ug/kg	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4,4'-DDD	ug/kg	0.39 U	0.40 U	0.38 U	0.40 U	0.40 U	0.40 U	0.39 U
4,4'-DDE	ug/kg	0.98	1.1	0.38 U	0.94	0.31 J Z	0.63	0.58 J S
Endrin Aldehyde	ug/kg	0.39 U	0.40 UJ FD	2.1 U	0.40 U	0.40 U	0.40 U	0.39 U
Heptachlor	ug/kg	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Endosulfan I	ug/kg	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A5
Pesticides-Validated Data
HSA-5DN

Sample Name		SL-207-SA5DN-SS-0.0-0.5
Sample Date		06/03/2011
SDG		DE173
Start Depth		0
End Depth		0.5
Chemical Name	Unit	
Dichlorprop	ug/kg	1.8 U
Dicamba	ug/kg	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.6 U
Dinitrobutyl Phenol	ug/kg	2.6 U
MCPP	ug/kg	270 U
2,4,5-TP	ug/kg	0.18 U
2,4,5-T	ug/kg	0.18 U
MCPA	ug/kg	220 J Z, *#
2,4-D	ug/kg	3.8 U
2,4 DB	ug/kg	3.7 U
Toxaphene	ug/kg	7.1 UJ C
Heptachlor Epoxide	ug/kg	1.8 UJ C
Endosulfan Sulfate	ug/kg	3.7 UJ C
Mirex	ug/kg	3.7 UJ C
Aldrin	ug/kg	0.18 UJ C
Alpha-BHC	ug/kg	0.18 UJ C
Beta-BHC	ug/kg	0.18 UJ C
Delta-BHC	ug/kg	0.18 UJ C
Endosulfan II	ug/kg	3.7 UJ C
4,4'-DDT	ug/kg	63
Endrin Ketone	ug/kg	3.7 UJ C
Chlordane	ug/kg	4.0 J C, *#
Gamma-BHC (Lindane)	ug/kg	0.18 UJ C
Dieldrin	ug/kg	18 UJ C
Endrin	ug/kg	8.2 UJ C
Methoxychlor	ug/kg	18 UJ C
4,4'-DDD	ug/kg	3.7 U
4,4'-DDE	ug/kg	4.9 UJ C
Endrin Aldehyde	ug/kg	21 J *#
Heptachlor	ug/kg	0.18 UJ C
Endosulfan I	ug/kg	1.8 UJ C

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA5DN-SS-0.0-0.5	SL-001-SA5DN-SB-5.5-6.5	SL-001-SA5DN-SB-9.0-10.0	SL-002-SA5DN-SS-0.0-0.5	SL-002-SA5DN-SB-4.0-5.0	SL-002-SA5DN-SB-9.0-10.0	SL-003-SA5DN-SB-0.5-1.5	SL-003-SA5DN-SB-8.0-9.0	SL-004-SA5DN-SS-0.0-0.5	SL-004-SA5DN-SB-3.5-4.5	SL-004-SA5DN-SB-9.0-10.0	SL-005-SA5DN-SS-0.0-0.5
Sample Date		05/25/2011	05/17/2011	05/17/2011	05/25/2011	05/16/2011	05/16/2011	05/16/2011	05/16/2011	05/25/2011	05/16/2011	05/16/2011	05/25/2011
SDG		DE163	DE153	DE153	DE163	DE151	DE151	DE151	DE151	DE163	DE151	DE151	DE163
Start Depth		0	5.5	9	0	4	9	0.5	8	0	3.5	9	0
End Depth		0.5	6.5	10	0.5	5	10	1.5	9	0.5	4.5	10	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	399 U	37.1 U	--	287 J Z	37.8 U	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	9.4 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	580 U	550 U	530 U	570 U	570 U	590 U	550 U	550 U	600 U	560 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Phenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	26 J Z	--	--	--	35 J Z	--	--	360 U	--	--	380 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	43 J Z	--	7.9 J Z	69 J Z	20 U	--	21 U	20 U	--	22 U	20 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	190 U	--	--	180 U	--	--	--	--	180 U	--	--	190 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	8.9 J Z	21 U	21 U	20 U	--	22 U	20 U	--
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	9.4 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	5.4 J Z	1.9 U	1.9 U	4.5 J Z	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	16
Dimethylphthalate (8270C)	ug/kg	190 U	--	--	180 U	--	--	--	--	180 U	--	--	190 U
Dimethylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	20 U	21 U	21 U	20 U	--	22 U	20 U	--
Dibenzofuran	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	12	2.0 U	1.9 U	4.7 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	9.4 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	7.0 J L, Z	1.9 U	1.9 U	6.0 J L, Z	1.9 U	1.9 U	2.0 U	1.8 U	5.2 J L, Z	2.0 U	1.9 U	17 J L
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	6.9 J Z	1.9 U	1.9 U	4.6 J Z	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	0.86 J Z	1.9 U	22
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	6.4 J L, Z	2.0 U	1.9 U	8.4 J L, Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	9.4 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	4.8 J Z	1.9 U	1.9 U	4.4 J Z	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	0.61 J Z	11
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	8.7 J L, Z	2.0 U	1.9 U	7.4 J L, Z
2,4-Dinitrophenol	ug/kg	1100 U	1200 UJ L	1100 UJ L	1100 U	1100 UJ L	1100 UJ L	1200 UJ L	1100 UJ L	1100 U	1200 UJ L	1100 UJ L	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	580 UJ L	550 UJ L	530 U	570 UJ L	570 UJ L	590 UJ L	550 UJ L	550 U	600 UJ L	560 UJ L	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	9.4 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	7.4 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Aniline	ug/kg	570 U	580 U	550 U	530 U	570 U	570 U	590 U	550 U	550 U	600 U	560 U	570 U
Benzoic Acid	ug/kg	570 U	580 U	550 U	530 U	570 U	570 U	590 U	550 U	550 U	600 U	560 U	570 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	580 U	550 U	530 U	570 U	570 U	590 U	550 U	550 U	600 U	560 U	570 U
Isophorone	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	9.4 U
Diethylphthalate (8270C)	ug/kg	190 U	--	--	180 U	--	--	--	--	180 U	--	--	190 U
Diethylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	20 U	21 U	21 U	20 U	--	22 U	20 U	--
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	--	180 U	--	--	--	--	180 U	--	--	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	20 U	21 U	21 U	20 U	--	22 U	20 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	4.9 J Z	1.0 J Z	1.9 U	12
Butylbenzylphthalate (8270C)	ug/kg	190 U	--	--	180 U	--	--	--	--	180 U	--	--	190 U
Butylbenzylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	--	20 U	21 U	21 U	20 U	--	22 U	20 U	--
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U	1.9 U	9.4 U
Carbazole	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	580 U	550 U	530 U	570 U	570 U	590 U	550 U	550 U	600 U	560 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	5.6 J Z	2.0 U	1.9 U	9.4 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA5DN-SS-0.0-0.5	SL-001-SA5DN-SB-5.5-6.5	SL-001-SA5DN-SB-9.0-10.0	SL-002-SA5DN-SS-0.0-0.5	SL-002-SA5DN-SB-4.0-5.0	SL-002-SA5DN-SB-9.0-10.0	SL-003-SA5DN-SB-0.5-1.5	SL-003-SA5DN-SB-8.0-9.0	SL-004-SA5DN-SS-0.0-0.5	SL-004-SA5DN-SB-3.5-4.5	SL-004-SA5DN-SB-9.0-10.0	SL-005-SA5DN-SS-0.0-0.5
Sample Date		05/25/2011	05/17/2011	05/17/2011	05/25/2011	05/16/2011	05/16/2011	05/16/2011	05/16/2011	05/25/2011	05/16/2011	05/16/2011	05/25/2011
SDG		DE163	DE153	DE153	DE163	DE151	DE151	DE151	DE151	DE163	DE151	DE151	DE163
Start Depth		0	5.5	9	0	4	9	0.5	8	0	3.5	9	0
End Depth		0.5	6.5	10	0.5	5	10	1.5	9	0.5	4.5	10	0.5
Naphthalene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	9.1 U	2.0 U F	1.9 U	9.4 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.5 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	2.0 U	1.8 U	7.3 J Z	2.0 U	0.81 J Z	9.4 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	390 U	370 U	350 U	380 U	380 U	390 U	370 U	360 U	400 U	370 U	380 U
Benzidine	ug/kg	3800 U	3900 U	3700 U	3500 U	3800 U	3800 U	3900 U	3700 U	3600 U	4000 U	3700 U	3800 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U
Benzyl Alcohol	ug/kg	570 U	580 U	550 U	530 U	570 U	570 U	590 U	550 U	550 U	600 U	560 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	200 U	180 U	180 U	200 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA5DN-SB-4.0-5.0	SL-005-SA5DN-SB-9.0-10.0	SL-006-SA5DN-SS-0.0-0.5	SL-006-SA5DN-SB-4.0-5.0	SL-006-SA5DN-SB-9.0-10.0	SL-007-SA5DN-SS-0.0-0.5	SL-007-SA5DN-SB-4.0-5.0	SL-008-SA5DN-SS-0.0-0.5	SL-008-SA5DN-SB-4.0-5.0	SL-008-SA5DN-SB-9.0-10.0	SL-009-SA5DN-SS-0.0-0.5	SL-009-SA5DN-SB-4.0-5.0
Sample Date		05/17/2011	05/17/2011	05/25/2011	08/11/2011	08/11/2011	08/22/2011	08/10/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	08/09/2011
SDG		DE153	DE153	DE163	DE222	DE222	DE229	DE221	DE160	DE168	DE168	DE160	DE220
Start Depth		4	9	0	4	9	0	4	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	1.9 U	1.8 U	11 U	1.8 U
2,4-Dinitrotoluene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Nitrobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
1,4-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
1,2,4-Trichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
1,3-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Hexachlorobutadiene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
1,2-Dichlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
4-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
4-Nitrophenol	ug/kg	590 U	570 U	600 U	570 U	570 U	570 U	580 U	530 U	580 U	560 U	650 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
2,4-Dimethylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
4-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
4-Chloroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
3,5-Dimethylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Phenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 UJ Q, L
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	21 J Z	--	400 U	--	--	380 U	--	35 J Z	--	--	61 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	--	20 U	8.9 J Z	--	21 U	--	21 U	20 U	--	50 J FD, Q
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	200 U	--	--	190 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	--	20 U	20 U	--	21 U	19 U	21 U	20 U	51 J Z	20 UJ FD
Hexachlorobenzene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	1.9 U	1.8 U	14	1.8 UJ Q
2,4-Dichlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
1,2-Diphenylhydrazine	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Pyrene (8270C)	ug/kg	--	--	170 J Z	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	9.4 U	1.9 U	2.7	1.9 U	1.8 U	140	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	200 U	--	--	190 U	--	--	--	--	220 U	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	20 U	20 U	--	21 U	19 U	21 U	20 U	--	20 U
Dibenzofuran	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	96 J Z	--	--	41 J Z	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	--	1.9 U	2	1.9 U	1.8 U	40	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	99 J Z	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	9.4 U	1.9 U	1.2 J Q, Z	1.9 U	1.8 U	33	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	150 J Z	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	21	1.9 U	4.2 J L	1.9 U	1.8 U	93 J L	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	150 J Z	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	9.4 U	1.9 U	2.7	1.9 UJ L	1.8 UJ L	140	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	67 J Z	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	9.4 U	1.9 U	4.3	1.9 U	1.8 U	34	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	1.9 U	1.8 U	11 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	120 J Z	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	2.7 J Z	1.9 U	2.1	1.9 U	1.8 U	98	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	150 J Z	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	11	1.9 U	1.8	1.9 U	1.8 U	71	1.8 U
2,4-Dinitrophenol	ug/kg	1200 UJ L	1100 UJ L	1200 U	1100 U	1100 U	1100 U	1200 U	1100 U	1200 U	1100 U	1300 U	1100 R Q
4,6-Dinitro-2-Methylphenol	ug/kg	590 UJ L	570 UJ L	600 U	570 U	570 U	570 UJ L	580 U	530 U	580 U	560 U	650 U	550 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	1.9 U	1.8 U	12	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	95 J Z	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	9.4 U	1.9 U	1.5 J Z	1.9 U	1.8 U	85	1.8 U
4-Chloro-3-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Aniline	ug/kg	590 U	570 U	600 U	570 U	570 U	570 U	580 U	530 U	580 U	560 U	650 U	550 U
Benzoic Acid	ug/kg	590 U	570 U	600 U	570 U	570 U	570 U	580 U	530 U	580 U	560 U	650 U	550 R Q, L
Hexachloroethane	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
4-Chlorophenyl Phenylether	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Hexachlorocyclopentadiene	ug/kg	590 U	570 U	600 U	570 U	570 U	570 U	580 U	530 U	580 U	560 U	650 U	550 U
Isophorone	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	1.9 U	1.8 U	11 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	200 U	--	--	190 U	--	--	--	--	220 U	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	20 U	20 U	--	21 U	19 U	21 U	20 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	200 U	--	--	190 U	--	--	--	--	220 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	20 U	20 U	--	21 U	19 U	21 UJ L	20 UJ L	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	42 J Z	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.0 U	1.9 U	--	1.9 U	1.9 U	9.4 U	1.9 U	1.1 J Z	1.9 U	1.8 U	62	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	200 U	--	--	190 U	--	--	--	--	220 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	20 U	20 U	--	21 U	19 U	21 U	20 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	1.9 U	1.8 U	11 U	1.8 U
Carbazole	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Pentachlorophenol	ug/kg	590 U	570 U	600 U	570 U	570 U	570 U	580 U	530 U	580 U	560 U	650 U	550 U
2,4,6-Trichlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
2-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
2-Nitrophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	1.9 U	1.8 U	11 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA5DN-SB-4.0-5.0	SL-005-SA5DN-SB-9.0-10.0	SL-006-SA5DN-SS-0.0-0.5	SL-006-SA5DN-SB-4.0-5.0	SL-006-SA5DN-SB-9.0-10.0	SL-007-SA5DN-SS-0.0-0.5	SL-007-SA5DN-SB-4.0-5.0	SL-008-SA5DN-SS-0.0-0.5	SL-008-SA5DN-SB-4.0-5.0	SL-008-SA5DN-SB-9.0-10.0	SL-009-SA5DN-SS-0.0-0.5	SL-009-SA5DN-SB-4.0-5.0
Sample Date		05/17/2011	05/17/2011	05/25/2011	08/11/2011	08/11/2011	08/22/2011	08/10/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	08/09/2011
SDG		DE153	DE153	DE163	DE222	DE222	DE229	DE221	DE160	DE168	DE168	DE160	DE220
Start Depth		4	9	0	4	9	0	4	0	4	9	0	4
End Depth		5	10	0.5	5	10	0.5	5	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	0.95 J Z	1.9 U	1.8 U	11 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	9.4 U	1.9 U	0.95 J Z	1.9 U	1.8 U	11 U	1.8 U
2-Chloronaphthalene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
3,3`-Dichlorobenzidine	ug/kg	390 U	380 U	400 U	380 U	380 U	380 U	390 U	360 U	390 U	370 U	440 U	370 U
Benzidine	ug/kg	3900 U	3800 U	4000 U	3800 U	3800 U	3800 U	3900 U	3600 U	3900 U	3700 U	4400 U	3700 U
2-Methylphenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
2-Chlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
2,4,5-Trichlorophenol	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
3-Nitroaniline	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U
Benzyl Alcohol	ug/kg	590 U	570 U	600 U	570 U	570 U	570 U	580 U	530 U	580 U	560 U	650 U	550 U
2,6-Dinitrotoluene	ug/kg	200 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U	220 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-009-SA5DN-SB-9.0-10.0	SL-010-SA5DN-SS-0.0-0.5	SL-010-SA5DN-SB-4.0-5.0	SL-010-SA5DN-SB-9.0-10.0	SL-011-SA5DN-SS-0.0-0.5	SL-011-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SS-0.0-0.5	SL-012-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SB-9.0-10.0	SL-013-SA5DN-SS-0.0-0.5	SL-013-SA5DN-SB-4.0-5.0	SL-013-SA5DN-SB-9.0-10.0
Sample Date		08/09/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	08/09/2011	05/23/2011	08/09/2011	08/09/2011	05/23/2011	05/31/2011	05/31/2011
SDG		DE220	DE160	DE168	DE168	DE160	DE220	DE160	DE220	DE220	DE160	DE168	DE168
Start Depth		9	0	4	9	0	4	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	0.5	5	10	0.5	5	10
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	21.5 J Z	56	100	18.4 J Z	65.4	71.5
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	9.4 U	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	580 U	510 U	570 U	570 U	560 U	560 U	560 U	520 U	580 U	520 U	580 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Phenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 UJ L	170 U	190 U	190 U	190 U	190 UJ L	190 U	170 UJ L	190 UJ L	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	340 U	--	--	90 J Z	--	37 J Z	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	13 J Z	--	19 U	21 U	50 J Z	21 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	170 U	--	--	190 U	--	190 U	--	--	170 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	31	--	11 J Z	21 U	--	21 U	20 U
Hexachlorobenzene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	2.7 J Z	1.9 U	270	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	19	1.9 U	1100	1.7 U	1.9 U	19	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	170 U	--	--	190 U	--	190 U	--	--	170 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	20 U	--	19 U	21 U	--	21 U	20 U
Dibenzofuran	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	85 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4	1.9 U	--	1.7 U	1.9 U	12	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	78 J Z	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	4.1 J Z	1.9 U	--	1.7 U	1.9 U	7.0 J Z	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	18 J L	1.9 U	340 J L	1.7 U	1.9 U	20 J L	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 UJ L	1.9 UJ L	22	1.9 U	1200	1.7 U	1.9 U	16	1.9 UJ L	1.9 UJ L
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	3.8 J Z	1.9 U	150	1.7 U	1.9 U	8.4 J Z	1.9 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	9.4 U	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	15	1.9 U	460	1.7 U	1.9 U	17	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.8	1.9 U	240	1.7 U	1.9 U	12	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1000 U	1100 U	1100 U	1100 U	1100 U	1100 U	1000 U	1200 U	1000 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 UJ L	510 U	570 U	570 U	560 U	560 UJ L	560 U	520 UJ L	580 UJ L	520 U	580 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	29 J Z	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	--	1.7 U	1.9 U	3.7 J Z	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	10	1.9 U	500	1.7 U	1.9 U	11	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Aniline	ug/kg	580 U	510 U	570 U	570 U	560 U	560 U	560 U	520 U	580 U	520 U	580 U	570 U
Benzoic Acid	ug/kg	580 UJ L	510 U	570 U	570 U	560 U	560 UJ L	560 U	520 UJ L	580 UJ L	520 U	580 U	570 U
Hexachloroethane	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	510 U	570 U	570 U	560 U	560 U	560 U	520 U	580 U	520 U	580 U	570 U
Isophorone	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	26	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	170 U	--	--	190 U	--	190 U	--	--	170 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	20 U	--	19 U	21 U	--	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	170 U	--	--	190 U	--	190 U	--	--	170 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	--	21 UJ L	21 UJ L	--	20 U	--	19 U	21 U	--	21 UJ L	20 UJ L
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	12	1.9 U	910	1.7 U	1.9 U	4.0 J Z	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	170 U	--	--	190 U	--	190 U	--	--	78 J Z	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	20 U	--	19 U	21 U	--	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	47	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	26 J Z	170 U	190 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	580 U	510 U	570 U	570 U	560 U	560 U	560 U	520 U	580 U	520 U	580 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	9.4 U	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-009-SA5DN-SB-9.0-10.0	SL-010-SA5DN-SS-0.0-0.5	SL-010-SA5DN-SB-4.0-5.0	SL-010-SA5DN-SB-9.0-10.0	SL-011-SA5DN-SS-0.0-0.5	SL-011-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SS-0.0-0.5	SL-012-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SB-9.0-10.0	SL-013-SA5DN-SS-0.0-0.5	SL-013-SA5DN-SB-4.0-5.0	SL-013-SA5DN-SB-9.0-10.0
Sample Date		08/09/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	08/09/2011	05/23/2011	08/09/2011	08/09/2011	05/23/2011	05/31/2011	05/31/2011
SDG		DE220	DE160	DE168	DE168	DE160	DE220	DE160	DE220	DE220	DE160	DE168	DE168
Start Depth		9	0	4	9	0	4	0	4	9	0	4	9
End Depth		10	0.5	5	10	0.5	5	0.5	5	10	0.5	5	10
Naphthalene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	9.4 U	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	8.5 U	1.9 U	1.9 U	9.4 U	1.9 U	9.4 U	1.7 U	1.9 U	8.6 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	340 U	380 U	380 U	370 U	370 U	370 U	350 U	390 U	350 U	390 U	380 U
Benzidine	ug/kg	3900 U	3400 U	3800 U	3800 U	3700 U	3700 U	3700 U	3500 U	3900 U	3500 U	3900 U	3800 U
2-Methylphenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	580 U	510 U	570 U	570 U	560 U	560 U	560 U	520 U	580 U	520 U	580 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	170 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-014-SA5DN-SS-0.0-0.5	SL-014-SA5DN-SB-4.0-5.0	SL-014-SA5DN-SB-9.0-10.0	SL-015-SA5DN-SS-0.0-0.5	SL-015-SA5DN-SB-4.0-5.0	SL-015-SA5DN-SB-12.0-13.0	SL-016-SA5DN-SS-0.0-0.5	SL-016-SA5DN-SB-4.0-5.0	SL-016-SA5DN-SB-12.0-13.0	SL-017-SA5DN-SS-0.0-0.5	SL-017-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	05/31/2011	05/31/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/01/2011
SDG		DE160	DE169	DE169	DE159	DE170	DE170	DE159	DE172	DE172	DE159	DE170
Start Depth		0	4	9	0	4	12	0	4	12	0	4
End Depth		0.5	5	10	0.5	5	13	0.5	5	13	0.5	5
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	43.8	21.4 J FD, Z	38.6 U	378 U	387 U	24.1 J Z	56.2	393 U	37.7 U B	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	9.3 U	39 U	1.9 U	9.3 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	190 U	190 UJ L	190 U	180 U	190 UJ L	200 U	190 U	180 UJ L	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	550 U	570 U	580 U	570 U	580 U	540 U	560 U	590 U	570 U	550 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	190 U	190 UJ L	190 U	180 U	190 UJ L	200 U	190 U	180 UJ L	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	29 J Z	--	--	380 U	--	--	370 U	390 U B	380 U B	37 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 UJ FD	21 U	--	21 U	19 U	--	--	--	--	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	--	190 U	--	--	190 U	--	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	21 U	--	21 U	19 U	--	420 U	20 U	--	21 U
Hexachlorobenzene	ug/kg	180 U	190 U	190 U	190 UJ L	190 U	180 U	190 UJ L	200 U	190 U	180 UJ L	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	54 J Z	--	--	--	--
Anthracene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	--	3400	18	2.2 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	640	--	--	170 J Z	--
Pyrene (8270C SIM)	ug/kg	20	1.9 U	1.9 U	10	1.9 U	0.78 J Z	--	15000	86	--	1.9 U
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	190 U	--	--	190 U	--	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	--	21 U	19 U	--	420 U	20 U	--	21 U
Dibenzofuran	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	110 J Z	--	--	41 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	11	1.9 U	1.9 U	6.2 J Z	1.9 U	1.8 U	--	4900	13	--	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	130 J Z	--	--	53 J Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	7.8 J Z	1.9 U	1.9 U	5.0 J Z	1.9 U	1.8 U	--	5200	13	--	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	420	--	--	180	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	22 J L	1.9 U	1.9 U	25	1.9 U	1.8 U	--	12000	49	--	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	470	--	--	120 J Z	--
Fluoranthene (8270C SIM)	ug/kg	16	1.9 U	1.9 U	11	1.9 U	1.8 U	--	16000	92	--	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	10	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	14	7300	20	18	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	9.3 U	92	1.9 U	9.3 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	380	--	--	100 J Z	--
Chrysene (8270C SIM)	ug/kg	16	1.9 U	1.9 U	9.6	1.9 U	0.48 J Z	--	12000	56	--	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	280	--	--	100 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	16	1.9 U	1.9 U	9.4	1.9 U	1.8 U	--	8500	37	--	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 UJ Q	1200 U	1100 U	1200 U	1100 U	1100 U	1200 U	1100 U	1100 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	570 U	580 U	570 U	580 U	540 U	560 U	590 U	570 U	550 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	32 J Z	--	--	22 J Z	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	--	1900	5.1	--	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	380	--	--	130 J Z	--
Benzo(a)anthracene (8270C SIM)	ug/kg	13	1.9 U	1.9 U	7.0 J Z	1.9 U	1.8 U	--	10000	51	--	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Aniline	ug/kg	550 U	570 U	580 U	570 U	580 U	540 U	560 U	590 U	570 U	550 U	580 U
Benzoic Acid	ug/kg	550 U	570 U	580 U	570 U	580 U	540 U	560 U	590 U	570 U	550 U	580 U
Hexachloroethane	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	570 U	580 U	570 U	580 U	540 U	560 U	590 U	570 U	550 U	580 U
Isophorone	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	9.3 U	450	5.4	9.3 U	1.9 U
Diethylphthalate (8270C)	ug/kg	180 U	--	--	190 U	--	--	190 U	--	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	--	21 U	19 U	--	420 U	20 U	--	21 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	--	190 U	--	--	190 U	--	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	--	21 U	19 U	--	420 U	20 U	--	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	60 J Z	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	5.4 J Z	1.9 U	1.9 U	6.5 J Z	1.9 U	1.8 U	--	4200	47	5.9 J Z	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	--	190 U	--	--	190 U	--	--	28 J Z	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	--	21 U	19 U	--	420 U	20 U	--	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	9.3 U	290	4.6	9.3 U	1.9 U
Carbazole	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	20 J Z	26 J Z	190 U	180 U	190 U
Pentachlorophenol	ug/kg	550 U	570 U	580 U	570 U	580 U	540 U	560 U	590 U	570 U	550 U	580 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	190 U	190 UJ L	190 U	180 U	190 UJ L	200 U	190 U	180 UJ L	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	9.3 U	39 U	1.9 U	9.3 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-014-SA5DN-SS-0.0-0.5	SL-014-SA5DN-SB-4.0-5.0	SL-014-SA5DN-SB-9.0-10.0	SL-015-SA5DN-SS-0.0-0.5	SL-015-SA5DN-SB-4.0-5.0	SL-015-SA5DN-SB-12.0-13.0	SL-016-SA5DN-SS-0.0-0.5	SL-016-SA5DN-SB-4.0-5.0	SL-016-SA5DN-SB-12.0-13.0	SL-017-SA5DN-SS-0.0-0.5	SL-017-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	05/31/2011	05/31/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/01/2011
SDG		DE160	DE169	DE169	DE159	DE170	DE170	DE159	DE172	DE172	DE159	DE170
Start Depth		0	4	9	0	4	12	0	4	12	0	4
End Depth		0.5	5	10	0.5	5	13	0.5	5	13	0.5	5
Naphthalene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	4.2 J Z	1.9 U	1.8 U	9.3 U	43	1.9 U	9.3 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.9 U	9.4 U	1.9 U	1.8 U	9.3 U	39 U	1.9 U	9.3 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	380 U	380 U	380 U	390 U	360 U	370 U	390 U	380 U	370 U	380 U
Benzidine	ug/kg	3700 U	3800 U	3800 U	3800 U	3900 U	3600 U	3700 U	3900 U	3800 U	3700 U	3800 U
2-Methylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	550 U	570 U	580 U	570 U	580 U	540 U	560 U	590 U	570 U	550 U	580 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-017-SA5DN-SB-7.0-8.0	SL-018-SA5DN-SS-0.0-0.5	SL-018-SA5DN-SB-4.0-5.0	SL-018-SA5DN-SB-7.5-8.5	SL-019-SA5DN-SS-0.0-0.5	SL-019-SA5DN-SB-4.0-5.0	SL-019-SA5DN-SB-9.0-10.0	SL-020-SA5DN-SS-0.0-0.5	SL-020-SA5DN-SB-3.5-4.5	SL-021-SA5DN-SS-0.0-0.5	SL-021-SA5DN-SB-4.0-5.0	SL-021-SA5DN-SB-19.5-20.5
Sample Date		06/01/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011	06/03/2011	06/03/2011	05/20/2011	06/15/2011	05/23/2011	06/02/2011	06/02/2011
SDG		DE170	DE160	DE170	DE172	DE159	DE173	DE173	DE158	DE181	DE159	DE172	DE172
Start Depth		7	0	4	7.5	0	4	9	0	3.5	0	4	19.5
End Depth		8	0.5	5	8.5	0.5	5	10	0.5	4.5	0.5	5	20.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	32.1 J Z	30.8 J Z	46.8	385 U	126	37.1 U B	35.2 UJ B, Q	34.4 J Z	388 U	380 U	371 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	8.7 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	180 U	190 UJ L	190 U	190 U	170 U	190 U	190 UJ L	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	550 U	550 U	550 U	580 U	580 U	560 U	520 U	560 U	580 U	570 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	180 U	190 UJ L	190 U	190 U	170 U	190 U	190 UJ L	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	61 J L, Z	30 J Z	--	--	380 U	--	20 J Z	350 U	--	--	380 U B	370 U B
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	20 U	20 U	--	21 U	--	--	20 U	21 U	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	190	180 U	--	--	190 U	--	--	170 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	20 U	20 U	--	21 U	20 U	--	20 U	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	180 U	180 U	190 UJ L	190 U	190 U	170 U	190 U	190 UJ L	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	2.7 J Z	1.9 U	0.42 J Z	1.4 J Z	2
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	14	1.8 U	1.8 U	8.4 J Z	0.80 J Z	0.97 J Z	75	2.4	3.5	14	17
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	--	190 U	--	--	170 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	20 U	--	21 U	20 U	--	20 U	21 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	19 J Z	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	1.8 U	4.8 J Z	1.9 U	1.8 U	22	0.93 J Z	1.7 J Z	3.9	3.3
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	6.7 J Z	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	17	1.9 U	1.6 J Z	3.6	3.5
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	11 J L	1.8 U	1.8 U	12	1.5 J Z	1.8 U	70	1.7 J Z	4.9	12	11
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	13	1.8 U	1.8 U	11	1.0 J L, Z	1.8 UJ L	72	2.3	4.5	12	17
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	5.8 J Z	1.8 U	1.8 U	4.6 J Z	1.9 U	1.8 U	28	1.9 U	5.4	5.2	6
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	8.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	11	1.8 U	1.8 U	6.8 J Z	1.7 J Z	1.8	47	1.6 J Z	3.1	13	14
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	8.6 J Z	1.8 U	1.8 U	6.2 J Z	1.9 U	1.8 U	43	1.2 J Z	3.1	9	8.3
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1200 U	1200 U	1100 U	1000 UJ Q, L	1100 U	1200 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	550 U	550 U	550 U	580 U	580 U	560 U	520 U	560 U	580 U	570 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	3.7 J Z	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	5.6 J Z	1.9 U	1.9 U	1.4 J Z	1.3 J Z
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	6.0 J Z	1.8 U	1.8 U	5.2 J Z	0.78 J Z	1.8 U	34	1.1 J Z	1.7 J Z	12	12
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	570 U	550 U	550 U	550 U	580 U	580 U	560 U	520 U	560 U	580 U	570 U	560 U
Benzoic Acid	ug/kg	570 U	550 U	550 U	550 U	580 U	580 U	560 U	520 U	560 U	580 U	570 U	560 U
Hexachloroethane	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	550 U	550 U	550 U	580 U	580 U	560 U	520 U	560 U	580 U	570 U	560 U
Isophorone	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	8.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	--	190 U	--	--	170 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	20 U	--	21 U	20 U	--	20 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	19 J Z	--	--	21 J Z	--	--	170 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	20 U	--	21 UJ L	20 UJ L	--	20 U	21 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	5.6 J Z	1.8 U	1.8 U	7.2 J Z	1.9 U	1.8 U	24	0.87 J Z	1.9	1.9	2.7
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	--	190 U	--	--	170 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	20 U	--	21 U	20 U	--	20 U	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	8.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	550 U	550 U	550 U	580 U	580 U	560 U	520 U	560 U	580 U	570 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	180 U	190 UJ L	190 U	190 U	170 U	190 U	190 UJ L	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	8.7 U	1.9 U	1.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-017-SA5DN-SB-7.0-8.0	SL-018-SA5DN-SS-0.0-0.5	SL-018-SA5DN-SB-4.0-5.0	SL-018-SA5DN-SB-7.5-8.5	SL-019-SA5DN-SS-0.0-0.5	SL-019-SA5DN-SB-4.0-5.0	SL-019-SA5DN-SB-9.0-10.0	SL-020-SA5DN-SS-0.0-0.5	SL-020-SA5DN-SB-3.5-4.5	SL-021-SA5DN-SS-0.0-0.5	SL-021-SA5DN-SB-4.0-5.0	SL-021-SA5DN-SB-19.5-20.5
Sample Date		06/01/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011	06/03/2011	06/03/2011	05/20/2011	06/15/2011	05/23/2011	06/02/2011	06/02/2011
SDG		DE170	DE160	DE170	DE172	DE159	DE173	DE173	DE158	DE181	DE159	DE172	DE172
Start Depth		7	0	4	7.5	0	4	9	0	3.5	0	4	19.5
End Depth		8	0.5	5	8.5	0.5	5	10	0.5	4.5	0.5	5	20.5
Naphthalene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	8.7 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.2 U	1.8 U	1.8 U	9.6 U	1.9 U	1.8 U	8.7 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	360 U	370 U	370 U	380 U	380 U	370 U	350 U	370 U	390 U	380 U	370 U
Benzidine	ug/kg	3800 U	3600 U	3700 U	3700 U	3800 U	3800 U	3700 U	3500 U	3700 U	3900 U	3800 U	3700 U
2-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	570 U	550 U	550 U	550 U	580 U	580 U	560 U	520 U	560 U	580 U	570 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	190 U	190 U	190 U	170 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA5DN-SS-0.0-0.5	SL-022-SA5DN-SB-4.0-5.0	SL-022-SA5DN-SB-15.0-16.0	SL-023-SA5DN-SS-0.0-0.5	SL-023-SA5DN-SB-4.0-5.0	SL-023-SA5DN-SB-20.0-21.0	SL-024-SA5DN-SS-0.0-0.5	SL-024-SA5DN-SB-4.0-5.0	SL-024-SA5DN-SB-19.0-20.0	SL-025-SA5DN-SS-0.0-0.5	SL-025-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	06/06/2011	06/06/2011	05/23/2011	06/08/2011	06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/08/2011
SDG		DE159	DE174	DE174	DE159	DE176	DE176	DE158	DE175	DE175	DE158	DE176
Start Depth		0	4	15	0	4	20	0	4	19	0	4
End Depth		0.5	5	16	0.5	5	21	0.5	5	20	0.5	5
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	38.3 UJ Q	116	36.1 U B	42.3 J S	34.3 J Z	44.2	38.5 U B	37.8 UJ FD	37.1 U	38.6 U B	44.9
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 UJ L	190 U	180 U	190 UJ L	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 UJ L	180 UJ L	190 U	190 UJ L	180 UJ L	190 U	190 UJ Q, L	180 UJ L	190 U	190 UJ L
4-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	560 U	540 U	570 U	570 U	550 U	580 U	570 U	550 U	580 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 UJ L	190 U	180 U	190 UJ L	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Phenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	27 J FD, Z	--	--	--	380 U B	370 U B	390 U	--	--	40 J L, Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	19 U	20 U	--	--	--	20 U	20 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	190 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	19 U	20 U	20 U	20 U	--	20 U	20 U	21 U	20 U
Hexachlorobenzene	ug/kg	190 UJ L	190 U	180 U	190 UJ L	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 UJ FD	1.9 U	1.8 U	1.7 J Z	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.5 J Z	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	190 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	19 U	20 U	20 U	20 U	--	20 UJ Q	20 U	21 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 UJ FD	1.9 U	1.8 U	1.0 J Z	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	2.2	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	0.88 J Z	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.1 J Z	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 J FD	1.9 U	1.8 U	4.8	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	2.9	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 UJ FD	1.9 U	1.8 U	2.1	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.7 J Z	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 UJ FD	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	3.4	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 UJ Q	1.8 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.96 J FD, Z	1.9 U	1.8 U	1.5 J Z	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.6 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 UJ FD	1.9 U	1.8 U	1.8 J Z	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	2.4	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1200 U	1100 R Q	1100 U	1200 UJ L	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	560 U	540 U	570 U	570 U	550 U	580 U	570 R Q	550 U	580 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.2 J Z	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.0 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Aniline	ug/kg	570 U	560 U	540 U	570 U	570 U	550 U	580 U	570 U	550 U	580 U	560 U
Benzoic Acid	ug/kg	570 U	560 U	540 U	570 U	570 U	550 U	580 U	570 U	550 U	580 U	560 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	560 U	540 U	570 U	--	550 U	580 U	570 U	550 U	580 U	560 U
Isophorone	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	190 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	20 U	19 U	20 U	20 U	20 U	--	20 U	20 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	190 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	20 U	19 U	20 U	20 U	20 U	--	20 U	20 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 UJ FD	1.9 U	1.8 U	0.88 J Z	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	190 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	19 U	20 U	10 J Z	20 U	--	20 U	20 U	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	560 U	540 U	570 U	570 U	550 U	580 U	570 U	550 U	580 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
2-Nitrophenol	ug/kg	190 UJ L	190 U	180 U	190 UJ L	190 UJ L	180 UJ L	190 U	190 UJ Q	180 U	190 U	190 UJ L
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-022-SA5DN-SS-0.0-0.5	SL-022-SA5DN-SB-4.0-5.0	SL-022-SA5DN-SB-15.0-16.0	SL-023-SA5DN-SS-0.0-0.5	SL-023-SA5DN-SB-4.0-5.0	SL-023-SA5DN-SB-20.0-21.0	SL-024-SA5DN-SS-0.0-0.5	SL-024-SA5DN-SB-4.0-5.0	SL-024-SA5DN-SB-19.0-20.0	SL-025-SA5DN-SS-0.0-0.5	SL-025-SA5DN-SB-4.0-5.0
		Sample Date	05/23/2011	06/06/2011	06/06/2011	05/23/2011	06/08/2011	06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/08/2011
		SDG	DE159	DE174	DE174	DE159	DE176	DE176	DE158	DE175	DE175	DE158	DE176
		Start Depth	0	4	15	0	4	20	0	4	19	0	4
		End Depth	0.5	5	16	0.5	5	21	0.5	5	20	0.5	5
Naphthalene (8270C SIM)	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg		--	--	--	--	190 U	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.6 U	1.9 U	1.8 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg		190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg		380 U	380 U	360 U	380 U	380 U	370 U	390 U	380 U	370 U	390 U	380 U
Benzidine	ug/kg		3800 UJ Q	3800 U	3600 U	3800 U	3800 U	3700 U	3900 U	3800 UJ Q	3700 U	3900 U	3800 U
2-Methylphenol	ug/kg		190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
2-Chlorophenol	ug/kg		190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg		190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 UJ Q	180 U	190 U	190 U
3-Nitroaniline	ug/kg		190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U
Benzyl Alcohol	ug/kg		570 U	560 U	540 U	570 U	570 U	550 U	580 U	570 U	550 U	580 U	560 U
2,6-Dinitrotoluene	ug/kg		190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-025-SA5DN-SB-23.0-24.0	SL-026-SA5DN-SS-0.0-0.5	SL-026-SA5DN-SB-4.0-5.0	SL-026-SA5DN-SB-17.0-18.0	SL-027-SA5DN-SS-0.0-0.5	SL-027-SA5DN-SB-4.0-5.0	SL-027-SA5DN-SB-14.0-15.0	SL-028-SA5DN-SS-0.0-0.5	SL-028-SA5DN-SB-4.0-5.0	SL-028-SA5DN-SB-11.5-12.5	SL-029-SA5DN-SS-0.0-0.5
Sample Date		06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/03/2011	06/03/2011	05/20/2011	06/08/2011	06/08/2011	05/20/2011
SDG		DE176	DE158	DE175	DE175	DE158	DE173	DE173	DE158	DE176	DE176	DE158
Start Depth		23	0	4	17	0	4	14	0	4	11.5	0
End Depth		24	0.5	5	18	0.5	5	15	0.5	5	12.5	0.5
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	49.8	38.4 U B	20.4 J Z	27.1 J Z	38.5 U B	38.3 U B	36.9 U B	38.5 U B	390 U	371 U	38.2 U B
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 UJ L	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 UJ L	190 U	200 UJ L	180 UJ L	190 U	190 U	180 U	190 U	190 UJ L	180 UJ L	190 U
4-Nitroaniline	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	550 U	570 U	590 U	540 U	570 U	570 U	550 U	580 U	580 U	550 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 UJ L	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	33 J L, Z	20 J Z	--	23 J L, Z	--	370 U B	37 J L, Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	58	21 U	20 U	--	--	20 U	--	21 U	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	20 U	21 U	21 U	20 U	21 U
Hexachlorobenzene	ug/kg	180 U	190 UJ L	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	0.58 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	2.4	2.0 U	1.8 U	10	1.9 U	1.8 U	2.3	1.9 U	1.4 J Z	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	20 U	21 U	21 U	20 U	21 U
Dibenzofuran	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.3 J Z	2.0 U	1.8 U	3.1	1.9 U	1.8 U	1.9	1.9 U	0.79 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.2 J Z	2.0 U	1.8 U	2.9	1.9 U	1.8 U	1.1 J Z	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	4.8	2.0 U	1.8 U	17	1.9 U	1.8 U	4.8	1.9 U	2.7	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	3	2.0 U	1.8 U	8.2	1.9 UJ L	1.8 UJ L	2.3	1.9 U	1.8 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	5.6	2.0 U	1.8 U	7.9	1.9 U	1.8 U	3.8	1.9 U	0.80 J Z	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	2.7	2.0 U	0.74 J Z	10	1.9 U	1.8 U	3	1.9 U	2.2	0.49 J Z
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	2.7	2.0 U	1.8 U	12	1.9 U	1.8 U	2.1	1.9 U	1.9	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1200 U	1100 U	1100 UJ L	1100 U	1100 U	1200 UJ L	1200 U	1100 U	1200 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	570 U	590 U	540 U	570 U	570 U	550 U	580 U	580 U	550 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	1.1 J Z	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.4 J Z	2.0 U	1.8 U	9.6	1.9 U	1.8 U	0.98 J Z	1.9 U	0.79 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	550 U	570 U	590 U	540 U	570 U	570 U	550 U	580 U	580 U	550 U	580 U
Benzoic Acid	ug/kg	550 U	570 U	590 U	540 U	570 U	570 U	550 U	580 U	580 U	550 U	580 U
Hexachloroethane	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	570 U	590 U	540 U	570 U	570 U	550 U	580 U	580 U	550 U	580 U
Isophorone	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	20 U	7.1 J Z	21 U	20 U	9.6 J Z
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 UJ L	20 UJ L	21 U	21 U	20 U	9.7 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.2 J Z	2.0 U	1.8 U	0.86 J Z	1.9 U	1.8 U	1.2 J Z	1.9 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	20 U	21 U	21 U	12 J Z	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	550 U	570 U	590 U	540 U	570 U	570 U	550 U	580 U	580 U	550 U	580 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 UJ L	190 UJ L	200 U	180 U	190 U	190 U	180 U	190 U	190 UJ L	180 UJ L	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-025-SA5DN-SB-23.0-24.0	SL-026-SA5DN-SS-0.0-0.5	SL-026-SA5DN-SB-4.0-5.0	SL-026-SA5DN-SB-17.0-18.0	SL-027-SA5DN-SS-0.0-0.5	SL-027-SA5DN-SB-4.0-5.0	SL-027-SA5DN-SB-14.0-15.0	SL-028-SA5DN-SS-0.0-0.5	SL-028-SA5DN-SB-4.0-5.0	SL-028-SA5DN-SB-11.5-12.5	SL-029-SA5DN-SS-0.0-0.5
Sample Date		06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/03/2011	06/03/2011	05/20/2011	06/08/2011	06/08/2011	05/20/2011
SDG		DE176	DE158	DE175	DE175	DE158	DE173	DE173	DE158	DE176	DE176	DE158
Start Depth		23	0	4	17	0	4	14	0	4	11.5	0
End Depth		24	0.5	5	18	0.5	5	15	0.5	5	12.5	0.5
Naphthalene (8270C SIM)	ug/kg	1.8 U	0.95 J Z	2.0 U	1.8 U	1.9 U	1.9 U	1.8 U	0.98 J Z	1.9 U	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	380 U	390 U	360 U	380 U	380 U	370 U	380 U	380 U	370 U	390 U
Benzidine	ug/kg	3700 U	3800 U	3900 U	3600 U	3800 U	3800 U	3700 U	3800 U	3800 U	3700 U	3900 U
2-Methylphenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	550 U	570 U	590 U	540 U	570 U	570 U	550 U	580 U	580 U	550 U	580 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U

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R - Result is rejected

Sample Name		SL-029-SA5DN-SB-4.0-5.0	SL-030-SA5DN-SS-0.0-0.5	SL-030-SA5DN-SB-4.0-5.0	SL-031-SA5DN-SS-0.0-0.5	SL-031-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SS-0.0-0.5	SL-032-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SB-10.0-11.0	SL-033-SA5DN-SS-0.0-0.5	SL-033-SA5DN-SB-4.0-5.0	SL-033-SA5DN-SB-11.0-12.0	SL-034-SA5DN-SS-0.0-0.5
Sample Date		06/15/2011	05/19/2011	06/15/2011	05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/19/2011	06/14/2011	06/14/2011	05/19/2011
SDG		DE181	DE157	DE181	DE157	DE181	DE157	DE180	DE180	DE157	DE180	DE180	DE157
Start Depth		4	0	4	0	4	0	4	10	0	4	11	0
End Depth		5	0.5	5	0.5	5	0.5	5	11	0.5	5	12	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	33.3 J Z	257 J Z	36.3 J Z	303 J Z	36.0 J Z	63.8	45.9	36.4 U	260 J Z	388 U	372 U	91.8
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	560 U	570 U	570 U	580 U	570 U	550 U	560 U	550 U	580 U	580 U	560 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	28 J Z	--	--	390 U	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	--	21 U	20 U	--	21 U	20 U	8.1 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	8.8 J Z	21 U	8.5 J Z	21 U	20 U	--	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.58 J Z	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.4	1.9 U	1.8 U	4.1 J Z	1.9 U	1.9 U	1.5 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	20 U	21 U	20 U	--	21 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.3 J Z	1.9 U	1.8 U	9.7 U	1.2 J FD, Z	1.9 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.2 J Z	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.6	1.9 U	1.8 U	4.4 J Z	1.9 UJ FD	1.9 U	6.8
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5.2	1.9 U	1.8 U	7.0 J Z	1.9 U	1.9 U	2.5
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5.2	1.9 U	1.8 U	5.8 J Z	1.3 J FD, Z	1.9 U	1.6 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	0.40 J Z	1.9 U	1.9 U	1.9 U	3.2	1.9 U	1.8 U	5.0 J Z	1.1 J Z	1.9 U	1.3 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.5	1.9 U	1.8 U	9.7 U	0.99 J FD, Z	1.9 U	0.95 J Z
2,4-Dinitrophenol	ug/kg	1100 U	1100 UJ L	1100 U	1200 UJ L	1100 U	1100 UJ L	1100 U	1100 U	1200 UJ L	1200 U	1100 U	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	570 U	570 U	580 U	570 U	550 U	560 U	550 U	580 U	580 U	560 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.6 J Z	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	0.82 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Aniline	ug/kg	560 U	570 U	570 U	580 U	570 U	550 U	560 U	550 U	580 U	580 U	560 U	550 U
Benzoic Acid	ug/kg	560 U	570 U	570 U	580 U	570 U	550 U	560 U	550 U	580 U	580 U	560 U	550 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	570 U	570 U	580 U	570 U	550 U	560 U	550 U	580 U	580 U	560 U	550 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	20 U	21 U	20 U	--	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	20 U	21 U	20 U	--	9.6 J Z	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.8	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.2 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	260	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	12 J Z	21 U	21 U	21 U	--	21 U	20 U	36 J Z	8.3 J FD, Z	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	0.85 J Z
Carbazole	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	560 U	570 U	570 U	580 U	570 U	550 U	560 U	550 U	580 U	580 U	560 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.75 J Z	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-029-SA5DN-SB-4.0-5.0	SL-030-SA5DN-SS-0.0-0.5	SL-030-SA5DN-SB-4.0-5.0	SL-031-SA5DN-SS-0.0-0.5	SL-031-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SS-0.0-0.5	SL-032-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SB-10.0-11.0	SL-033-SA5DN-SS-0.0-0.5	SL-033-SA5DN-SB-4.0-5.0	SL-033-SA5DN-SB-11.0-12.0	SL-034-SA5DN-SS-0.0-0.5
Sample Date		06/15/2011	05/19/2011	06/15/2011	05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/19/2011	06/14/2011	06/14/2011	05/19/2011
SDG		DE181	DE157	DE181	DE157	DE181	DE157	DE180	DE180	DE157	DE180	DE180	DE157
Start Depth		4	0	4	0	4	0	4	10	0	4	11	0
End Depth		5	0.5	5	0.5	5	0.5	5	11	0.5	5	12	0.5
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.4 J Z	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.84 J Z	1.9 U	1.8 U	9.7 U	1.9 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	380 U	390 U	380 U	370 U	380 U	360 U	390 U	390 U	370 U	360 U
Benzidine	ug/kg	3800 U	3800 U	3800 U	3900 U	3800 U	3700 U	3800 U	3600 U	3900 U	3900 U	3700 U	3600 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	560 U	570 U	570 U	580 U	570 U	550 U	560 U	550 U	580 U	580 U	560 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-034-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SS-0.0-0.5	SL-035-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SB-9.5-10.5	SL-036-SA5DN-SS-0.0-0.5	SL-036-SA5DN-SB-4.0-5.0	SL-036-SA5DN-SB-9.0-10.0	SL-037-SA5DN-SS-0.0-0.5	SL-037-SA5DN-SB-4.0-5.0	SL-037-SA5DN-SB-11.5-12.5	SL-038-SA5DN-SS-0.0-0.5	SL-038-SA5DN-SB-4.0-5.0
Sample Date		06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011
SDG		DE181	DE157	DE180	DE180	DE158	DE175	DE175	DE158	DE177	DE177	DE158	DE177
Start Depth		4	0	4	9.5	0	4	9	0	4	11.5	0	4
End Depth		5	0.5	5	10.5	0.5	5	10	0.5	5	12.5	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	30.4 J Z	38.3 U	93.9	28.5 J Z	37.9 U B	29.3 J Z	23.9 J Z	38.1 U B	42.7 J Q	36.8 UJ F, S	38.6 U B	387 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 UJ L	190 UJ L	190 U	200 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	580 U	580 U	580 U	550 U	570 U	590 U	570 U	580 U	610 U	560 U	580 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	20 J Z	--	--	39 J L, Z	--	--	--	410 U B	--	--	390 U B
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	21 U	20 U	--	21 U	21 U	91 J Z	--	20 U	130	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	190 U	--	--	190 U	--	--	190 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	--	21 U	20 U	--	21 U	21 U	--	22 U	20 U	19 J Z	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	0.85 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	29 J Z	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.97 J Z	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	--	2.0 U	1.8 U	18	0.91 J Z
Dimethylphthalate (8270C)	ug/kg	--	190 U	--	--	190 U	--	--	190 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	20 U	--	21 U	21 U	--	22 U	20 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	4.9	0.90 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	4.3	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	23 J Z	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.2	9.5 U	2.0 U	1.9 U	8.3 J Z	2.0 U	1.9 U	--	2.0 U	1.8 U	25	1.4 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	24 J Z	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	5.0 J Z	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	--	2.0 U	1.8 U	19	0.97 J Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.3 J Z	5.0 J Z	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	7.1 J Z	2.0 U	1.8 U	11	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	26 J Z	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.1 J Z	3.5 J Z	2.0 U	1.9 U	3.3 J Z	2.0 U	1.9 U	--	2.0 U	1.8 U	16	1.3 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	22 J Z	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.8	9.5 U	2.0 U	1.9 U	4.1 J Z	2.0 U	1.9 U	--	2.0 U	1.8 U	17	0.81 J Z
2,4-Dinitrophenol	ug/kg	1200 U	1200 UJ L	1200 U	1100 U	1100 UJ L	1200 U	1100 U	1200 UJ L	1200 U	1100 U	1200 UJ L	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	580 U	580 U	550 U	570 U	590 U	570 U	580 U	610 U	560 U	580 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.7 J Z	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	5.2 J Z	2.0 U	1.8 U	12	1.1 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Aniline	ug/kg	580 U	580 U	580 U	550 U	570 U	590 U	570 U	580 U	610 U	560 U	580 U	580 U
Benzoic Acid	ug/kg	580 U	580 U	580 U	550 U	570 U	590 U	570 U	580 U	610 U	560 U	580 U	580 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	580 U	580 U	550 U	570 U	590 U	570 U	580 U	610 U	560 U	580 U	580 U
Isophorone	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	190 U	--	--	190 U	--	--	190 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	20 U	--	21 U	21 U	--	22 U	20 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	190 U	--	--	--	--	--	190 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	20 U	71 J Z	21 U	21 U	--	22 U	20 U	8.1 J Z	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	5.4	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	190 U	--	--	190 U	--	--	190 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	20 U	--	21 U	21 U	--	22 U	20 U	21 U	8.8 J Z
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	580 U	580 U	580 U	550 U	570 U	590 U	570 U	580 U	610 U	560 U	580 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-034-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SS-0.0-0.5	SL-035-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SB-9.5-10.5	SL-036-SA5DN-SS-0.0-0.5	SL-036-SA5DN-SB-4.0-5.0	SL-036-SA5DN-SB-9.0-10.0	SL-037-SA5DN-SS-0.0-0.5	SL-037-SA5DN-SB-4.0-5.0	SL-037-SA5DN-SB-11.5-12.5	SL-038-SA5DN-SS-0.0-0.5	SL-038-SA5DN-SB-4.0-5.0
Sample Date		06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011
SDG		DE181	DE157	DE180	DE180	DE158	DE175	DE175	DE158	DE177	DE177	DE158	DE177
Start Depth		4	0	4	9.5	0	4	9	0	4	11.5	0	4
End Depth		5	0.5	5	10.5	0.5	5	10	0.5	5	12.5	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.5 U	2.0 U	1.9 U	9.4 U	2.0 U	1.9 U	9.6 U	2.0 U	1.8 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	390 U	370 U	380 U	390 U	380 U	380 U	410 U	370 U	390 U	390 U
Benzidine	ug/kg	3800 U	3800 U	3900 U	3700 U	3800 U	3900 U	3800 U	3800 U	4100 U	3700 U	3900 U	3900 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	580 U	580 U	580 U	550 U	570 U	590 U	570 U	580 U	610 U	560 U	580 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	200 U	190 U	190 U	200 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-038-SA5DN-SB-10.5-11.5	SL-039-SA5DN-SS-0.0-0.5	SL-039-SA5DN-SB-4.0-5.0	SL-039-SA5DN-SB-11.5-12.5	SL-040-SA5DN-SS-0.0-0.5	SL-040-SA5DN-SB-4.0-5.0	SL-040-SA5DN-SB-10.5-11.5	SL-041-SA5DN-SS-0.0-0.5	SL-041-SA5DN-SB-4.0-5.0	SL-041-SA5DN-SB-9.0-10.0	SL-042-SA5DN-SS-0.0-0.5
Sample Date		06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/19/2011	06/10/2011	06/10/2011	05/19/2011
SDG		DE177	DE158	DE177	DE177	DE158	DE177	DE177	DE157	DE178	DE178	DE157
Start Depth		10.5	0	4	11.5	0	4	10.5	0	4	9	0
End Depth		11.5	0.5	5	12.5	0.5	5	11.5	0.5	5	10	0.5
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	369 U	39.1 U B	384 U	37.3 U	38.6 U B	388 U	355 U	61.1	39.5 U	372 U	411 J Z
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	9.8 U	2.0 U	1.9 U	15 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Nitrobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Hexachlorobutadiene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
4-Nitroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
4-Nitrophenol	ug/kg	550 U	580 U	580 U	570 U	580 U	580 U	530 U	580 U	590 U	560 UJ S	920 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
4-Methylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
4-Chloroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	310 U
Phenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	370 U B	54 J L, Z	390 U B	380 U B	--	390 U B	360 U B	--	38 J Z	19 J S, Z	130 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	25	--	--	89 J Z	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	310 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	19 U	50 J Z	21 U	20 U	--
Hexachlorobenzene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Anthracene (8270C)	ug/kg	--	48 J Z	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	--	1.9 U	1.9 U	0.77 J Z	1.9 U	1.4 J Z	9.8 U	0.51 J Z	1.9 U	15 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U	310 U
Pyrene (8270C)	ug/kg	--	430	--	--	--	--	--	26 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	--	3.2	1.7 J Z	11	2.1	25	--	5.1	1.7 J Z	11 J Z
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	310 U
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	19 U	--	21 U	20 U	--
Dibenzofuran	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	75 J Z	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	--	1.7 J Z	0.90 J Z	6.1	2.4	16	9.8 U	3	1.3 J Z	7.8 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	89 J Z	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	--	1.3 J Z	1.9 U	5.1	1.0 J Z	11	9.8 U	1.7 J Z	0.83 J Z	15 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	150 J Z	--	--	--	--	--	20 J Z	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	--	4.2	2.4	19	2.5	34	--	4.5	2	18
Fluoranthene (8270C)	ug/kg	--	390	--	--	--	--	--	21 J Z	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	--	3.7	2	14	2.3	31	--	6.3	1.6 J Z	16
Benzo(k)fluoranthene (8270C)	ug/kg	--	72 J Z	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	--	1.8 J Z	0.81 J Z	10	1.3 J Z	13	4.1 J Z	2.3	0.95 J Z	24
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	9.8 U	2.0 U	1.9 U	15 U
Chrysene (8270C)	ug/kg	--	200	--	--	--	--	--	24 J Z	--	--	33 J Z
Chrysene (8270C SIM)	ug/kg	1.8 U	--	3.6	2.2	14	1.9	31	--	4.1	1.8 J Z	--
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Benzo(a)pyrene (8270C)	ug/kg	--	140 J Z	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	--	2.9	1.7 J Z	12	1.8 J Z	25	4.6 J Z	3.5	1.4 J Z	14 J Z
2,4-Dinitrophenol	ug/kg	1100 U	1200 UJ L	1200 U	1100 U	1200 UJ L	1200 U	1100 U	1200 UJ L	1200 U	1100 UJ S	1800 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	580 U	580 U	570 U	580 U	580 U	530 U	580 U	590 U	560 UJ S	920 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	2.4	1.9 U	1.9 U	1.9	1.9 U	4.5	9.8 U	0.91 J Z	1.9 U	15 U
Benzo(a)anthracene (8270C)	ug/kg	--	190	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	--	3	1.9	7.7	1.4 J Z	28	9.8 U	3.4	1.2 J Z	9.7 J Z
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Aniline	ug/kg	550 U	580 U	580 U	570 U	580 U	580 U	530 U	580 U	590 U	560 UJ S	920 U
Benzoic Acid	ug/kg	550 U	580 U	580 U	570 U	580 U	580 U	530 U	580 U	590 U	560 UJ S	920 U
Hexachloroethane	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Hexachlorocyclopentadiene	ug/kg	550 U	580 U	580 U	570 U	580 U	580 U	530 U	580 U	590 U	560 UJ S	920 U
Isophorone	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Acenaphthene (8270C)	ug/kg	--	35 J Z	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	9.8 U	2.0 U	1.9 U	15 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	310 U
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	19 U	--	21 U	20 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	310 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	8.8 J Z	20 U	21 U	21 U	19 U	--	21 U	20 U	--
Phenanthrene (8270C)	ug/kg	--	290	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	--	1.1 J Z	1.9 U	3.9	1.9 U	6.7	9.8 U	2.3	0.89 J Z	15 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	310 U
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	21 U	21 U	19 U	--	21 U	20 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Fluorene (8270C)	ug/kg	--	21 J Z	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	--	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	9.8 U	2.0 U	1.9 U	15 U
Carbazole	ug/kg	180 U	27 J Z	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Pentachlorophenol	ug/kg	550 U	580 U	580 U	570 U	580 U	580 U	530 U	580 U	590 U	560 UJ S	920 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
2-Nitroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
2-Nitrophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	0.82 J Z	1.9 U	1.8 U	9.8 U	2.0 U	1.9 U	15 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-038-SA5DN-SB-10.5-11.5	SL-039-SA5DN-SS-0.0-0.5	SL-039-SA5DN-SB-4.0-5.0	SL-039-SA5DN-SB-11.5-12.5	SL-040-SA5DN-SS-0.0-0.5	SL-040-SA5DN-SB-4.0-5.0	SL-040-SA5DN-SB-10.5-11.5	SL-041-SA5DN-SS-0.0-0.5	SL-041-SA5DN-SB-4.0-5.0	SL-041-SA5DN-SB-9.0-10.0	SL-042-SA5DN-SS-0.0-0.5
	Sample Date	06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/19/2011	06/10/2011	06/10/2011	05/19/2011
	SDG	DE177	DE158	DE177	DE177	DE158	DE177	DE177	DE157	DE178	DE178	DE157
	Start Depth	10.5	0	4	11.5	0	4	10.5	0	4	9	0
	End Depth	11.5	0.5	5	12.5	0.5	5	11.5	0.5	5	10	0.5
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	1.5 J Z	1.9 U	1.8 U	9.8 U	2.0 U	1.9 U	15 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	0.91 J Z	1.9 U	1.8 U	9.8 U	2.0 U	1.9 U	15 U
2-Chloronaphthalene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
3,3`-Dichlorobenzidine	ug/kg	370 U	390 U	390 U	380 U	390 U	390 U	360 U	390 U	390 U	380 UJ S	610 U
Benzidine	ug/kg	3700 U	3900 U	3900 U	3800 U	3900 U	3900 U	3600 U	3900 U	3900 U	3800 UJ S	6100 U
2-Methylphenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
2-Chlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
3-Nitroaniline	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U
Benzyl Alcohol	ug/kg	550 U	580 U	580 U	570 U	580 U	580 U	530 U	580 U	590 U	560 UJ S	920 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 UJ S	310 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-042-SA5DN-SB-4.0-5.0	SL-042-SA5DN-SB-9.0-10.0	SL-043-SA5DN-SS-0.0-0.5	SL-043-SA5DN-SB-4.0-5.0	SL-043-SA5DN-SB-9.0-10.0	SL-044-SA5DN-SS-0.0-0.5	SL-044-SA5DN-SB-4.0-5.0	SL-044-SA5DN-SB-12.0-13.0	SL-045-SA5DN-SS-0.0-0.5	SL-045-SA5DN-SB-4.0-5.0	SL-045-SA5DN-SB-9.0-10.0
Sample Date		06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011	05/20/2011	06/14/2011	06/14/2011	05/19/2011	06/10/2011	06/10/2011
SDG		DE179	DE179	DE157	DE179	DE179	DE158	DE180	DE180	DE157	DE178	DE178
Start Depth		4	9	0	4	9	0	4	12	0	4	9
End Depth		5	10	0.5	5	10	0.5	5	13	0.5	5	10
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	38.7 U	365 U	57.4 J FD, Q	37.9 U	38.0 U	376 U B	391 U	377 U	221 J Z	80.4	38.1 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	9.6 U	2.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Nitrobenzene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Hexachlorobutadiene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
4-Nitroaniline	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
4-Nitrophenol	ug/kg	590 U	550 U	580 U	570 U	570 U	570 U	580 U	560 U	580 U	590 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
2,4-Dimethylphenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
4-Methylphenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
4-Chloroaniline	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Phenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	22 J Z	--	21 J Z	--	43 J L, Z	--	--	27 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	9.9 J Z	--	21 U	--	21 U	20 U	--	21 U	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	9.6 J Z	21 U	8.7 J Z	8.6 J Z	21 U	16 J Z	--	21 U	21 U
Hexachlorobenzene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	19 J Z	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	--	9.6 U	2.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Pyrene (8270C)	ug/kg	30 J Z	--	--	--	--	--	--	110 J Z	20 J Z	--	--
Pyrene (8270C SIM)	ug/kg	--	1.3 J Z	1.6 J FD, Z	1.9 U	1.9 U	0.77 J Z	2.0 U	--	--	2.0 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	21 U	21 U	21 U	20 U	21 U	20 U	--	21 U	21 U
Dibenzofuran	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	20 J Z	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 J Z	0.92 J Z	1.2 J FD, Z	1.9 U	1.9 U	1.9 U	2.0 U	2	--	2.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.4 J Z	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.6 J Z	9.6 U	2.0 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	26 J Z	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	2.5	3.1 J FD	0.93 J Z	1.9 U	1.3 J Z	2.0 U	21	7.5 J Z	2.0 U	1.9 U
Fluoranthene (8270C)	ug/kg	27 J Z	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	1.7 J Z	2.3 J FD	0.89 J Z	1.9 U	0.78 J Z	2.0 U	5.4	11	2.0 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.3	1.1 J Z	1.1 J FD, Z	1.9 U	1.9 U	0.78 J Z	2.0 U	6.7	7.3 J Z	2.0 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	9.6 U	2.0 U	1.9 U
Chrysene (8270C)	ug/kg	34 J Z	--	--	--	--	--	--	68 J Z	23 J Z	--	--
Chrysene (8270C SIM)	ug/kg	--	2	1.8 J FD, Z	0.79 J Z	1.9 U	0.68 J Z	2.0 U	--	--	2.0 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	22 J Z	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	1.7 J Z	1.9 J FD	1.9 U	1.9 U	1.9 U	2.0 U	14	5.2 J Z	2.0 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 UJ Q, L	1100 UJ L	1200 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1200 U	1100 U	1200 UJ L	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	550 U	580 U	570 U	570 U	570 U	580 U	560 U	580 U	590 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.2 J Z	9.6 U	2.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	29 J Z	--	--	--	--	--	--	62 J Z	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.7 J Z	1.3 J FD, Z	1.9 U	1.9 U	1.9 U	2.0 U	--	9.6 U	2.0 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Aniline	ug/kg	590 U	550 U	580 U	570 U	570 U	570 U	580 U	560 U	580 U	590 U	580 U
Benzoic Acid	ug/kg	590 U	550 U	580 U	570 U	570 U	570 U	580 U	560 U	580 U	590 U	580 U
Hexachloroethane	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	550 U	580 U	570 U	570 U	570 U	580 U	560 U	580 U	590 U	580 U
Isophorone	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	9.6 U	2.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	20 U	21 U	21 U	21 U	20 U	21 U	20 U	--	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	20 U	7.0 J Z	21 U	21 U	20 U	21 U	20 U	--	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	69 J Z	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.4 J Z	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	--	9.6 U	2.0 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	22 J Z	190 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	21 U	21 U	21 U	20 U	21 U	--	--	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	9.6 U	2.0 U	1.9 U
Carbazole	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	25 J Z	190 U	200 U	190 U
Pentachlorophenol	ug/kg	590 U	550 U	580 U	570 U	570 U	570 U	580 U	560 U	580 U	590 U	580 U
2,4,6-Trichlorophenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
2-Nitroaniline	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
2-Nitrophenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	9.6 U	2.0 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-042-SA5DN-SB-4.0-5.0	SL-042-SA5DN-SB-9.0-10.0	SL-043-SA5DN-SS-0.0-0.5	SL-043-SA5DN-SB-4.0-5.0	SL-043-SA5DN-SB-9.0-10.0	SL-044-SA5DN-SS-0.0-0.5	SL-044-SA5DN-SB-4.0-5.0	SL-044-SA5DN-SB-12.0-13.0	SL-045-SA5DN-SS-0.0-0.5	SL-045-SA5DN-SB-4.0-5.0	SL-045-SA5DN-SB-9.0-10.0
Sample Date		06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011	05/20/2011	06/14/2011	06/14/2011	05/19/2011	06/10/2011	06/10/2011
SDG		DE179	DE179	DE157	DE179	DE179	DE158	DE180	DE180	DE157	DE178	DE178
Start Depth		4	9	0	4	9	0	4	12	0	4	9
End Depth		5	10	0.5	5	10	0.5	5	13	0.5	5	10
Naphthalene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	9.6 U	2.0 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	9.6 U	2.0 U	1.9 U
2-Chloronaphthalene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	370 U	380 U	380 U	380 U	380 U	390 U	370 U	390 U	390 U	380 U
Benzidine	ug/kg	3900 U	3700 U	3800 UJ Q	3800 U	3800 U	3800 U	3900 U	3700 U	3900 U	3900 U	3800 U
2-Methylphenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
2-Chlorophenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
3-Nitroaniline	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U
Benzyl Alcohol	ug/kg	590 U	550 U	580 U	570 U	570 U	570 U	580 U	560 U	580 U	590 U	580 U
2,6-Dinitrotoluene	ug/kg	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-046-SA5DN-SS-0.0-0.5	SL-046-SA5DN-SB-4.0-5.0	SL-046-SA5DN-SB-9.0-10.0	SL-047-SA5DN-SS-0.0-0.5	SL-047-SA5DN-SB-4.0-5.0	SL-047-SA5DN-SB-10.0-11.0	SL-048-SA5DN-SS-0.0-0.5	SL-048-SA5DN-SB-4.0-5.0	SL-048-SA5DN-SB-11.5-12.5	SL-049-SA5DN-SS-0.0-0.5	SL-049-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/10/2011
SDG		DE157	DE179	DE179	DE157	DE179	DE179	DE157	DE178	DE178	DE157	DE178
Start Depth		0	4	9	0	4	10	0	4	11.5	0	4
End Depth		0.5	5	10	0.5	5	11	0.5	5	12.5	0.5	5
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	379 U	38.2 U	92	276 J Z	374 UJ H	35.4 U	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
4-Nitrophenol	ug/kg	570 U	580 U	570 U	540 U	560 U	530 U	560 U	580 U	560 U	540 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Phenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	380 U	--	--	23 J Z	--	--	--	--	--	74 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	8.2 J Z	21 U	--	20 U	19 U	7.7 J Z	21 U	20 U	--	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	14 J Z	21 U	20 U	20 U	19 U	8.7 J Z	21 U	20 U	20 U	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	64 J Z	--
Pyrene (8270C SIM)	ug/kg	180	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	2.1
Dimethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	21 U	21 U	20 U	20 U	19 U	20 U	21 U	20 U	20 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	55 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	67	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	2.4
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	32 J Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	35 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	0.83 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	55 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	330	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	2.5
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	68 J Z	--
Fluoranthene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	2.8
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	21 J Z	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	2.0 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	64 J Z	--
Chrysene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	0.43 J Z	1.9 U	1.9 U	--	1.8 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	33 J Z	--
Benzo(a)pyrene (8270C SIM)	ug/kg	87	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	1.3 J Z
2,4-Dinitrophenol	ug/kg	1100 UJ L	1200 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1200 U	1100 U	1100 UJ L	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	580 U	570 U	540 U	560 U	530 U	560 U	580 U	560 U	540 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	38 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	37 J Z	--
Benzo(a)anthracene (8270C SIM)	ug/kg	320	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	1.0 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Aniline	ug/kg	570 U	580 U	570 U	540 U	560 U	530 U	560 U	580 U	560 U	540 U	590 U
Benzoic Acid	ug/kg	570 U	580 U	570 U	540 U	560 U	530 U	560 U	580 U	560 U	540 U	590 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Hexachlorocyclopentadiene	ug/kg	570 U	580 U	570 U	540 U	560 U	530 U	560 U	580 U	560 U	540 U	590 U
Isophorone	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
Diethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	21 U	21 U	20 U	20 U	19 U	20 U	21 U	20 U	20 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	680	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	21 U	21 U	20 U	20 U	19 U	20 U	21 U	20 U	--	12 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	31 J Z	--
Phenanthrene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	--	1.4 J Z
Butylbenzylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	110 J Z	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	21 U	21 U	20 U	20 U	19 U	20 U	21 U	20 U	--	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
Carbazole	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Pentachlorophenol	ug/kg	570 U	580 U	570 U	540 U	560 U	530 U	560 U	580 U	560 U	540 U	590 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-046-SA5DN-SS-0.0-0.5	SL-046-SA5DN-SB-4.0-5.0	SL-046-SA5DN-SB-9.0-10.0	SL-047-SA5DN-SS-0.0-0.5	SL-047-SA5DN-SB-4.0-5.0	SL-047-SA5DN-SB-10.0-11.0	SL-048-SA5DN-SS-0.0-0.5	SL-048-SA5DN-SB-4.0-5.0	SL-048-SA5DN-SB-11.5-12.5	SL-049-SA5DN-SS-0.0-0.5	SL-049-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/10/2011
SDG		DE157	DE179	DE179	DE157	DE179	DE179	DE157	DE178	DE178	DE157	DE178
Start Depth		0	4	9	0	4	10	0	4	11.5	0	4
End Depth		0.5	5	10	0.5	5	11	0.5	5	12.5	0.5	5
Naphthalene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	0.80 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	48 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	380 U	360 U	370 U	350 U	370 U	390 U	370 U	360 U	390 U
Benzidine	ug/kg	3800 U	3800 U	3800 U	3600 U	3700 U	3500 U	3700 U	3900 U	3700 U	3600 U	3900 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U
Benzyl Alcohol	ug/kg	570 U	580 U	570 U	540 U	560 U	530 U	560 U	580 U	560 U	540 U	590 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	190 U	190 U	180 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-049-SA5DN-SB-15.5-16.5	SL-050-SA5DN-SS-0.0-0.5	SL-050-SA5DN-SB-4.0-5.0	SL-050-SA5DN-SB-11.2-12.5	SL-051-SA5DN-SS-0.0-0.5	SL-051-SA5DN-SB-4.0-5.0	SL-051-SA5DN-SB-14.0-15.0	SL-052-SA5DN-SS-0.0-0.5	SL-052-SA5DN-SB-4.0-5.0	SL-052-SA5DN-SB-9.0-10.0	SL-053-SA5DN-SS-0.0-0.5
Sample Date		06/10/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/08/2011	06/08/2011	05/23/2011	06/03/2011	06/03/2011	05/23/2011
SDG		DE178	DE158	DE177	DE177	DE158	DE176	DE176	DE159	DE173	DE173	DE159
Start Depth		15.5	0	4	11.2	0	4	14	0	4	9	0
End Depth		16.5	0.5	5	12.5	0.5	5	15	0.5	5	10	0.5
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	36.3 U B	29.0 J Z	30.4 J Z	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	9.1 U	1.9 U	1.8 U	9.1 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 UJ L	180 U	190 U	190 UJ L
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 UJ L	190 UJ L	190 U	180 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	550 U	570 U	560 U	540 U	560 U	570 U	580 U	550 U	570 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 UJ L	180 U	190 U	190 UJ L
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	35 J Z	26 J L, Z	--	370 U B	60 J L, Z	370 U B	--	390 U	--	--	370 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	8.6 J Z	--	20 U	--	--	--	21 U	--	20 U	21 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	190 U	--	--	190 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	--	20 U	20 U	--	20 U	21 U	--	20 U	21 U	--
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 UJ L	180 U	190 U	190 UJ L
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	9.2	1.9 U	1.8 U	4.5 J Z	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	2.2 J Z
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.9	66	1.9 U	1.8 U	44	1.9 U	1.9 U	6.1 J Z	1.8 U	1.9 U	19
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	190 U	--	--	190 U
Dimethylphthalate (8270C SIM)	ug/kg	21 U	--	20 U	20 U	--	20 U	21 U	--	20 U	21 U	--
Dibenzofuran	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.5	18	1.9 U	1.8 U	8.2 J Z	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	6.3 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.1 J Z	15	1.9 U	1.8 U	6.3 J Z	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	4.5 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.1	65	1.9 U	1.8 U	57	1.9 U	1.9 U	13	1.8 U	1.9 U	34
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	3.8	89	1.9 U	1.8 U	82	1.9 U	1.9 U	10	1.8 UJ L	1.9 UJ L	30
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.3	30	1.9 U	1.8 U	18	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	9.1 U	1.9 U	1.8 U	9.1 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.9	48	1.9 U	1.8 U	43	1.9 U	1.9 U	6.8 J Z	1.8 U	1.9 U	15
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.2	42	1.9 U	1.8 U	13	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2
2,4-Dinitrophenol	ug/kg	1100 U	1100 UJ L	1100 U	1100 U	1100 UJ L	1100 U	1100 U	1200 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	550 U	570 U	560 U	540 U	560 U	570 U	580 U	550 U	570 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	6.7 J Z	1.9 U	1.8 U	4.2 J Z	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 J Z	36	1.9 U	1.8 U	7.9 J Z	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	5.9 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Aniline	ug/kg	570 U	550 U	570 U	560 U	540 U	560 U	570 U	580 U	550 U	570 U	560 U
Benzoic Acid	ug/kg	570 U	550 U	570 U	560 U	540 U	560 U	570 U	580 U	550 U	570 U	560 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	550 U	570 U	560 U	540 U	560 U	570 U	580 U	550 U	570 U	560 U
Isophorone	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	9.1 U	1.9 U	1.8 U	9.1 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	190 U	--	--	190 U
Diethylphthalate (8270C SIM)	ug/kg	21 U	--	20 U	20 U	--	20 U	21 U	--	20 U	21 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	190 U	--	--	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	--	20 U	20 U	--	20 U	21 U	--	20 UJ L	21 UJ L	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2	48	1.9 U	1.8 U	45	1.9 U	1.9 U	4.8 J Z	1.8 U	1.9 U	18
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	190 U	--	--	190 U
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	--	20 U	20 U	--	20 U	21 U	--	20 U	21 U	--
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	9.1 U	1.9 U	1.8 U	9.1 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
Carbazole	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	550 U	570 U	560 U	540 U	560 U	570 U	580 U	550 U	570 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 UJ L	190 UJ L	190 UJ L	180 U	190 U	190 UJ L
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	9.1 U	1.9 U	1.8 U	9.1 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

		Sample Name	SL-049-SA5DN-SB-15.5-16.5	SL-050-SA5DN-SS-0.0-0.5	SL-050-SA5DN-SB-4.0-5.0	SL-050-SA5DN-SB-11.2-12.5	SL-051-SA5DN-SS-0.0-0.5	SL-051-SA5DN-SB-4.0-5.0	SL-051-SA5DN-SB-14.0-15.0	SL-052-SA5DN-SS-0.0-0.5	SL-052-SA5DN-SB-4.0-5.0	SL-052-SA5DN-SB-9.0-10.0	SL-053-SA5DN-SS-0.0-0.5
		Sample Date	06/10/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/08/2011	06/08/2011	05/23/2011	06/03/2011	06/03/2011	05/23/2011
		SDG	DE178	DE158	DE177	DE177	DE158	DE176	DE176	DE159	DE173	DE173	DE159
		Start Depth	15.5	0	4	11.2	0	4	14	0	4	9	0
		End Depth	16.5	0.5	5	12.5	0.5	5	15	0.5	5	10	0.5
Naphthalene (8270C SIM)	ug/kg		1.9 U	9.1 U	1.9 U	1.8 U	4.6 J Z	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
2-Methylnaphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg		1.9 U	9.1 U	1.9 U	1.8 U	9.1 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U	9.2 U
2-Chloronaphthalene	ug/kg		190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg		380 U	370 U	380 U	370 U	360 U	370 U	380 U	390 U	370 U	380 U	370 U
Benzidine	ug/kg		3800 U	3700 U	3800 U	3700 U	3600 U	3700 U	3800 U	3900 U	3700 U	3800 U	3700 U
2-Methylphenol	ug/kg		190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
2-Chlorophenol	ug/kg		190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg		190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
3-Nitroaniline	ug/kg		190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U
Benzyl Alcohol	ug/kg		570 U	550 U	570 U	560 U	540 U	560 U	570 U	580 U	550 U	570 U	560 U
2,6-Dinitrotoluene	ug/kg		190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U	190 U	190 U

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R - Result is rejected

Sample Name		SL-053-SA5DN-SB-4.0-5.0	SL-053-SA5DN-SB-11.5-12.5	SL-054-SA5DN-SS-0.0-0.5	SL-054-SA5DN-SB-4.0-5.0	SL-054-SA5DN-SB-9.0-10.0	SL-055-SA5DN-SS-0.0-0.5	SL-055-SA5DN-SB-4.0-5.0	SL-055-SA5DN-SB-9.0-10.0	SL-056-SA5DN-SS-0.0-0.5	SL-056-SA5DN-SB-4.0-5.0	SL-056-SA5DN-SB-9.0-10.0
Sample Date		06/06/2011	06/06/2011	05/18/2011	06/13/2011	06/13/2011	05/18/2011	06/15/2011	06/15/2011	05/18/2011	06/15/2011	06/15/2011
SDG		DE174	DE174	DE154	DE179	DE179	DE154	DE181	DE181	DE154	DE181	DE181
Start Depth		4	11.5	0	4	9	0	4	9	0	4	9
End Depth		5	12.5	0.5	5	10	0.5	5	10	0.5	5	10
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
1,2-Dichlorobenzene	ug/kg	190 UJ L	180 UJ L	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
4-Nitrophenol	ug/kg	580 U	550 U	560 U	600 U	590 U	570 U	590 U	560 U	560 U	590 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	22 J Z	19 J Z	38 J Z	--	--	31 J Z	--	--	37 J Z	24 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	22 U	21 U	--	21 U	7.5 J Z	--	21 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	190 U	--	--	190 U	--	--	190 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	--	22 U	21 U	--	21 U	20 U	--	21 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Pyrene (8270C)	ug/kg	--	--	25 J Z	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	--	2.0 U	2.0 U	23	1.9 U	1.8 U	4.4 J Z	2.0 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	190 U	--	--	190 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	22 U	21 U	--	21 U	20 U	--	21 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.8 U	7.1 J Z	2.0 U	2.0 U	19	3.8	1.8 U	5.4 J Z	2.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	3.9 J Z	2.0 U	2.0 U	15	3.6	1.8 U	9.4 U	2.0 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	23 J Z	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	--	2.0 U	2.0 U	42	1.9 U	1.8 U	7.0 J Z	2.0 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	22 J Z	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	--	2.0 U	2.0 U	32	1.9 U	1.8 U	5.2 J Z	2.0 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	20	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	23 J Z	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.8 U	--	2.0 U	2.0 U	38	1.9 U	1.8 U	5.9 J Z	2.0 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	4.6 J Z	2.0 U	2.0 U	29	1.9 U	1.8 U	4.6 J Z	2.0 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 UJ L	1200 UJ L	1200 UJ L	1100 UJ L	1200 U	1100 U	1100 UJ L	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	550 U	560 U	600 U	590 U	570 U	590 U	560 U	560 U	590 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	6.0 J Z	5.4	1.8 U	9.4 U	2.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	27 J Z	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	--	2.0 U	2.0 U	32	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Aniline	ug/kg	580 U	550 U	560 U	600 U	590 U	570 U	590 U	560 U	560 U	590 U	570 U
Benzoic Acid	ug/kg	580 U	550 U	560 U	600 U	590 U	570 U	590 U	560 U	560 U	590 U	570 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	550 U	560 U	600 U	590 U	570 U	590 U	560 U	560 U	590 U	570 U
Isophorone	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	190 U	--	--	190 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	22 U	21 U	--	21 U	20 U	--	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	54 J Z	--	--	19 J Z	--	--	190 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	22 U	21 U	--	21 U	20 U	--	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	190 U	--	--	190 U	--	--	740	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	22 U	21 U	--	21 U	20 U	--	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
Carbazole	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Pentachlorophenol	ug/kg	580 U	550 U	560 U	600 U	590 U	570 U	590 U	560 U	560 U	590 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

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Sample Name		SL-053-SA5DN-SB-4.0-5.0	SL-053-SA5DN-SB-11.5-12.5	SL-054-SA5DN-SS-0.0-0.5	SL-054-SA5DN-SB-4.0-5.0	SL-054-SA5DN-SB-9.0-10.0	SL-055-SA5DN-SS-0.0-0.5	SL-055-SA5DN-SB-4.0-5.0	SL-055-SA5DN-SB-9.0-10.0	SL-056-SA5DN-SS-0.0-0.5	SL-056-SA5DN-SB-4.0-5.0	SL-056-SA5DN-SB-9.0-10.0
Sample Date		06/06/2011	06/06/2011	05/18/2011	06/13/2011	06/13/2011	05/18/2011	06/15/2011	06/15/2011	05/18/2011	06/15/2011	06/15/2011
SDG		DE174	DE174	DE154	DE179	DE179	DE154	DE181	DE181	DE154	DE181	DE181
Start Depth		4	11.5	0	4	9	0	4	9	0	4	9
End Depth		5	12.5	0.5	5	10	0.5	5	10	0.5	5	10
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	9.4 U	2.0 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	370 U	370 U	400 U	400 U	380 U	390 U	370 U	370 U	400 U	380 U
Benzidine	ug/kg	3900 U	3700 U	3700 U	4000 U	4000 U	3800 U	3900 U	3700 U	3700 U	4000 U	3800 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U
Benzyl Alcohol	ug/kg	580 U	550 U	560 U	600 U	590 U	570 U	590 U	560 U	560 U	590 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	200 U	190 U	190 U	200 U	190 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-057-SA5DN-SS-0.0-0.5	SL-057-SA5DN-SB-4.0-5.0	SL-057-SA5DN-SB-9.0-10.0	SL-058-SA5DN-SS-0.0-0.5	SL-058-SA5DN-SB-4.0-5.0	SL-058-SA5DN-SB-9.0-10.0	SL-059-SA5DN-SS-0.0-0.5	SL-059-SA5DN-SB-4.0-5.0	SL-059-SA5DN-SB-9.0-10.0	SL-060-SA5DN-SS-0.0-0.5	SL-060-SA5DN-SB-4.0-5.0	SL-060-SA5DN-SB-7.0-8.0
Sample Date		05/24/2011	06/16/2011	06/16/2011	05/18/2011	06/16/2011	06/16/2011	05/18/2011	06/16/2011	06/16/2011	05/25/2011	08/05/2011	08/05/2011
SDG		DE163	DE182	DE182	DE154	DE182	DE182	DE154	DE182	DE182	DE163	DE218	DE218
Start Depth		0	4	9	0	4	9	0	4	9	0	4	7
End Depth		0.5	5	10	0.5	5	10	0.5	5	10	0.5	5	8
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	9.0 U	1.7 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
4-Nitrophenol	ug/kg	580 U	580 U	570 U	580 U	590 U	580 U	560 U	580 U	590 U	540 U	520 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	380 U	--	--	--	--	--	28 J Z	--	--	360 U	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	20 U	95	21 U	21 U	--	21 U	21 U	57 J Z	19 U	10 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	180 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	21 U	20 U	21 U	21 U	21 U	20 U	21 U	21 U	--	19 U	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	2	2.0 U	1.9 U	0.48 J Z	1.9 U	2.0 U	2.0 J Z	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	11	1.9 U	1.9 U	21	2.0 U	1.9 U	1.8 J Z	1.9 U	2.0 U	20	1.7 U	2.8
Dimethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	180 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	21 U	21 U	21 U	20 U	21 U	21 U	--	19 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	4.7 J Z	1.9 U	1.9 U	7	2.0 U	1.9 U	1.8 J Z	1.9 U	2.0 U	13	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	6.4	2.0 U	1.9 U	1.1 J Z	1.9 U	2.0 U	8.1 J Z	1.7 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	14 J FD, L	1.9 U	1.9 U	16	2.0 U	1.9 U	3.2	1.9 U	2.0 U	45 J L	1.7 U	2.5
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	12 J FD	1.9 U	1.9 U	30	2.0 U	1.9 U	2.6	1.9 U	2.0 U	21	1.7 U	3.3
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	9.2 J FD, L, Z	1.9 U	1.9 U	9	2.0 U	1.9 U	2.3	1.9 U	2.0 U	27 J L	1.7 U	0.94 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	9.0 U	1.7 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	22 J Z	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	8.9 J FD, Z	1.9 U	1.9 U	--	2.0 U	1.9 U	3.4	1.9 U	2.0 U	21	1.7 U	2
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	9.2 J FD, L, Z	1.9 U	1.9 U	11	2.0 U	1.9 U	2	1.9 U	2.0 U	31 J L	1.7 U	1.4 J Z
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1100 U	1200 UJ L	1200 U	1200 U	1100 UJ L	1200 U	1200 U	1100 U	1000 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	580 U	570 U	580 U	590 U	580 U	560 U	580 U	590 U	540 U	520 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	1.9	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	3.7 J Z	1.7 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	8.2 J FD, Z	1.9 U	1.9 U	10	2.0 U	1.9 U	1.9	1.9 U	2.0 U	14	1.7 U	1.1 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Aniline	ug/kg	580 U	580 U	570 U	580 U	590 U	580 U	560 U	580 U	590 U	540 U	520 U	580 U
Benzoic Acid	ug/kg	580 U	580 U	570 U	580 U	590 U	580 U	560 U	580 U	590 U	540 U	520 U	580 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	580 U	570 U	580 U	590 U	580 U	560 U	580 U	590 U	540 U	520 U	580 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	0.98 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	9.0 U	1.7 U	1.9 U
Diethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	180 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	21 U	21 U	21 U	20 U	21 U	21 U	--	19 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	180 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	8.8 J Z	21 U	21 U	20 U	21 U	21 U	--	19 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	4.4 J FD, Z	1.9 U	1.9 U	14	2.0 U	1.9 U	1.0 J Z	1.9 U	2.0 U	9.3	1.7 U	1.8 J Z
Butylbenzylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	180 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	21 U	20 U	16 J Z	21 U	21 U	20 U	21 U	21 U	--	19 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	1.0 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	9.0 U	1.7 U	1.9 U
Carbazole	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Pentachlorophenol	ug/kg	580 U	580 U	570 U	580 U	590 U	580 U	560 U	580 U	590 U	540 U	520 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	9.0 U	1.7 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-057-SA5DN-SS-0.0-0.5	SL-057-SA5DN-SB-4.0-5.0	SL-057-SA5DN-SB-9.0-10.0	SL-058-SA5DN-SS-0.0-0.5	SL-058-SA5DN-SB-4.0-5.0	SL-058-SA5DN-SB-9.0-10.0	SL-059-SA5DN-SS-0.0-0.5	SL-059-SA5DN-SB-4.0-5.0	SL-059-SA5DN-SB-9.0-10.0	SL-060-SA5DN-SS-0.0-0.5	SL-060-SA5DN-SB-4.0-5.0	SL-060-SA5DN-SB-7.0-8.0
Sample Date		05/24/2011	06/16/2011	06/16/2011	05/18/2011	06/16/2011	06/16/2011	05/18/2011	06/16/2011	06/16/2011	05/25/2011	08/05/2011	08/05/2011
SDG		DE163	DE182	DE182	DE154	DE182	DE182	DE154	DE182	DE182	DE163	DE218	DE218
Start Depth		0	4	9	0	4	9	0	4	9	0	4	7
End Depth		0.5	5	10	0.5	5	10	0.5	5	10	0.5	5	8
Naphthalene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	1.3 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	9.0 U	1.7 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.6 U	1.9 U	1.9 U	0.87 J Z	2.0 U	1.9 U	1.9 U	1.9 U	2.0 U	9.0 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	380 U	380 U	390 U	390 U	370 U	380 U	390 U	360 U	350 U	390 U
Benzidine	ug/kg	3800 R Q	3800 U	3800 U	3800 U	3900 U	3900 U	3700 U	3800 U	3900 U	3600 U	3500 U	3900 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U
Benzyl Alcohol	ug/kg	580 U	580 U	570 U	580 U	590 U	580 U	560 U	580 U	590 U	540 U	520 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	200 U	190 U	190 U	190 U	200 U	180 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-061-SA5DN-SB-4.0-5.0	SL-061-SA5DN-SB-9.0-10.0	SL-062-SA5DN-SB-4.0-5.0	SL-064-SA5DN-SS-0.0-0.5	SL-064-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SS-0.0-0.5	SL-065-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SB-7.0-8.0	SL-066-SA5DN-SS-0.0-0.5	SL-066-SA5DN-SB-4.0-5.0	SL-066-SA5DN-SB-9.0-10.0	SL-067-SA5DN-SS-0.0-0.5
Sample Date		06/16/2011	06/16/2011	06/16/2011	05/18/2011	05/20/2011	05/18/2011	05/20/2011	05/20/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011
SDG		DE182	DE182	DE182	DE154	DE158	DE154	DE158	DE158	DE152	DE156	DE156	DE152
Start Depth		4	9	4	0	4	0	4	7	0	4	9	0
End Depth		5	10	5	0.5	5	0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	119	38.3 U B	102	37.8 U B	503	36.7 U	26.4 J Z	211 J Z	36.7 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	9.5 U	1.9 U	9.3 U	1.9 U	1.8 U	9.1 U	1.9 U	2.0 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
4-Nitrophenol	ug/kg	580 U	580 U	590 U	570 U	570 U	560 U	570 U	550 U	540 U	570 U	590 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Phenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	23 J Z	53 J Z	27 J L, Z	45 J Z	30 J L, Z	20 J L, Z	22 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	21 U	--	--	--	--	--	--	--	20 U	21 U	20
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	190 U	--	190 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	--	21 U	20 U	42 J Z	20 U	21 U	9.4 J Z
Hexachlorobenzene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	36 J Z	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	3.8 J Z	1.9 U	--	1.9 U	1.8 U	1.9 J Z	1.9 U	2.0 U	17
2,4-Dichlorophenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	79 J Z	--	280	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	--	1.9 U	--	1.9 U	1.8 U	16	1.9 U	2.0 U	260
Dimethylphthalate (8270C)	ug/kg	--	--	--	190 U	--	190 U	--	--	180 U	--	--	42 J Z
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	--	21 U	20 U	--	20 U	21 U	--
Dibenzofuran	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	37 J Z	--	92 J Z	--	--	--	--	--	57 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	1.8 J Z	--	1.9 U	--	1.9 U	1.8 U	7.7 J Z	1.9 U	2.0 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	22 J Z	--	71 J Z	--	--	--	--	--	55 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	--	1.9 U	--	1.9 U	1.8 U	6.9 J Z	1.9 U	2.0 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	44 J Z	--	140 J Z	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.1 J Z	1.3 J Z	--	1.9 U	--	1.9 U	1.8 U	13	1.9 U	2.0 U	160
Fluoranthene (8270C)	ug/kg	--	--	--	79 J Z	--	300	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	--	1.9 U	--	1.9 U	1.8 U	20	1.9 U	2.0 U	260
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	25 J Z	--	67 J Z	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9	2.3	--	1.9 U	--	1.9 U	1.8 U	12	1.9 U	2.0 U	62
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	9.5 U	1.9 U	9.3 U	1.9 U	1.8 U	9.1 U	1.9 U	2.0 U	0.81 J Z
Chrysene (8270C)	ug/kg	--	--	--	43 J Z	--	160 J Z	--	--	--	--	--	120 J Z
Chrysene (8270C SIM)	ug/kg	0.65 J Z	2	1.8 J Z	--	1.9 U	--	1.9 U	1.8 U	15	1.9 U	2.0 U	--
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	34 J Z	--	120 J Z	--	--	--	--	--	110 J Z
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.9 J Z	--	1.9 U	--	1.9 U	1.8 U	12	1.9 U	2.0 U	--
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1200 U	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 U	1100 UJ L	1200 UJ L	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	580 U	590 U	570 U	570 U	560 U	570 U	550 U	540 U	570 UJ L	590 UJ L	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	3.9 J Z	1.9 U	12	1.9 U	1.8 U	9.0 J Z	1.9 U	2.0 U	10
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	37 J Z	--	130 J Z	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	--	1.9 U	--	1.9 U	1.8 U	11	1.9 U	2.0 U	99
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Aniline	ug/kg	580 U	580 U	590 U	570 U	570 U	560 U	570 U	550 U	540 U	570 U	590 U	550 U
Benzoic Acid	ug/kg	580 U	580 U	590 U	570 U	570 U	560 U	570 U	550 U	540 U	570 U	590 U	550 U
Hexachloroethane	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Hexachlorocyclopentadiene	ug/kg	580 U	580 U	590 U	570 U	570 U	560 U	570 U	550 U	540 U	570 U	590 U	550 U
Isophorone	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	21 J Z	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	9.5 U	1.9 U	--	1.9 U	1.8 U	9.1 U	1.9 U	2.0 U	12
Diethylphthalate (8270C)	ug/kg	--	--	--	190 U	--	190 U	--	--	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	--	21 U	20 U	--	20 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	190 U	--	190 U	--	--	180 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	--	21 U	20 U	--	20 U	21 U	6.7 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	47 J Z	--	180 J Z	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.1 J Z	2.0 U	--	1.9 U	--	1.9 U	1.8 U	9.4	1.9 U	2.0 U	110
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	19 J Z	--	190 U	--	--	180 U	--	--	19 J Z
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	--	21 U	--	21 U	20 U	--	20 U	21 U	--
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	9.5 U	1.9 U	5.6 J Z	1.9 U	1.8 U	9.1 U	1.9 U	2.0 U	5.7
Carbazole	ug/kg	190 U	190 U	200 U	190 U	190 U	29 J Z	190 U	180 U	180 U	190 U	200 U	180 U
Pentachlorophenol	ug/kg	580 U	580 U	590 U	570 U	570 U	560 U	570 U	550 U	540 U	570 U	590 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	9.5 U	1.9 U	9.3 U	1.9 U	1.8 U	9.1 U	1.9 U	2.0 U	1.3 J Z
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-061-SA5DN-SB-4.0-5.0	SL-061-SA5DN-SB-9.0-10.0	SL-062-SA5DN-SB-4.0-5.0	SL-064-SA5DN-SS-0.0-0.5	SL-064-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SS-0.0-0.5	SL-065-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SB-7.0-8.0	SL-066-SA5DN-SS-0.0-0.5	SL-066-SA5DN-SB-4.0-5.0	SL-066-SA5DN-SB-9.0-10.0	SL-067-SA5DN-SS-0.0-0.5
Sample Date		06/16/2011	06/16/2011	06/16/2011	05/18/2011	05/20/2011	05/18/2011	05/20/2011	05/20/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011
SDG		DE182	DE182	DE182	DE154	DE158	DE154	DE158	DE158	DE152	DE156	DE156	DE152
Start Depth		4	9	4	0	4	0	4	7	0	4	9	0
End Depth		5	10	5	0.5	5	0.5	5	8	0.5	5	10	0.5
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	9.5 U	1.9 U	9.3 U	1.9 U	1.8 U	9.1 U	1.9 U	2.0 U	1.7 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	9.5 U	1.9 U	9.3 U	1.9 U	1.8 U	9.1 U	1.9 U	2.0 U	1.3 J Z
2-Chloronaphthalene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
3,3`-Dichlorobenzidine	ug/kg	390 U	390 U	400 U	380 U	380 U	370 U	380 U	360 U	360 U	380 U	390 U	370 U
Benzidine	ug/kg	3900 U	3900 U	4000 U	3800 U	3800 U	3700 U	3800 U	3600 U	3600 U	3800 U	3900 U	3700 U
2-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U
Benzyl Alcohol	ug/kg	580 U	580 U	590 U	570 U	570 U	560 U	570 U	550 U	540 U	570 U	590 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	200 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	200 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-067-SA5DN-SB-4.0-5.0	SL-067-SA5DN-SB-9.0-10.0	SL-068-SA5DN-SB-4.0-5.0	SL-068-SA5DN-SB-9.0-10.0	SL-069-SA5DN-SB-4.0-5.0	SL-069-SA5DN-SB-9.0-10.0	SL-070-SA5DN-SB-4.0-5.0	SL-070-SA5DN-SB-9.0-10.0	SL-071-SA5DN-SS-0.0-0.5	SL-071-SA5DN-SB-4.0-5.0	SL-071-SA5DN-SB-9.0-10.0
Sample Date		05/19/2011	05/19/2011	05/17/2011	05/17/2011	05/18/2011	05/18/2011	05/18/2011	05/18/2011	05/27/2011	08/10/2011	08/10/2011
SDG		DE156	DE156	DE153	DE153	DE155	DE155	DE155	DE155	DE167	DE221	DE221
Start Depth		4	9	4	9	4	9	4	9	0	4	9
End Depth		5	10	5	10	5	10	5	10	0.5	5	10
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	37.9 U	38.9 U	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Nitrophenol	ug/kg	560 U	580 U	560 U	570 U	570 U	560 U	570 U	570 U	550 U	580 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	19 J Z	20 J Z	84 J Z	44 J Z	81 J Z	120 J Z	43 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	21 U	--	--	--	--	--	--	--	21 U	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	180 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U	21 U	--	21 U	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.6 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	4.2	1.9	1.9	1.2 J Z	9.2 U	1.2 J Z	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	180 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U	21 U	--	21 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.3 J Z	0.99 J Z	0.86 J Z	1.9 U	8.7 J Z	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	4.2 J Z	1.9 U	8.5	1.9	2.1	1.2 J Z	5.1 J Z	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.7 J Z	0.77 J Z	0.80 J Z	1.9 U	9.2 U	1.6 J Z	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	0.96 J L, Z	2.4 J L	2.2 J L	1.2 J L, Z	9.2 U	1.9 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	0.55 J Z	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	4.7 J Z	1.9 U	6.6	3	2.9	1.9	2.7 J Z	1.3 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	5.2 J L	2.2 J L	2.2 J L	1.2 J L, Z	9.2 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 UJ L	1200 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1100 UJ L	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 UJ L	580 UJ L	560 UJ L	570 UJ L	570 UJ L	560 UJ L	570 UJ L	570 UJ L	550 U	580 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.4 J Z	1.9 U	1.9 U	1.9 U	9.2 U	0.90 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Aniline	ug/kg	560 U	580 U	560 U	570 U	570 U	560 U	570 U	570 U	550 U	580 U	570 U
Benzoic Acid	ug/kg	560 U	580 U	560 U	570 U	570 U	560 U	570 U	570 U	550 U	580 U	570 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	580 U	560 U	570 U	570 U	560 U	570 U	570 U	550 U	580 U	570 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	180 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U	21 U	--	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	180 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U	21 U	--	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	7.6	3.6	2.5	1.4 J Z	9.2 U	1.5 J Z	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	180 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	21 U	21 U	21 U	21 U	--	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.1 J Z	1.9 U
Carbazole	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Pentachlorophenol	ug/kg	560 U	580 U	560 U	570 U	570 U	560 U	570 U	570 U	550 U	580 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-067-SA5DN-SB-4.0-5.0	SL-067-SA5DN-SB-9.0-10.0	SL-068-SA5DN-SB-4.0-5.0	SL-068-SA5DN-SB-9.0-10.0	SL-069-SA5DN-SB-4.0-5.0	SL-069-SA5DN-SB-9.0-10.0	SL-070-SA5DN-SB-4.0-5.0	SL-070-SA5DN-SB-9.0-10.0	SL-071-SA5DN-SS-0.0-0.5	SL-071-SA5DN-SB-4.0-5.0	SL-071-SA5DN-SB-9.0-10.0
Sample Date		05/19/2011	05/19/2011	05/17/2011	05/17/2011	05/18/2011	05/18/2011	05/18/2011	05/18/2011	05/27/2011	08/10/2011	08/10/2011
SDG		DE156	DE156	DE153	DE153	DE155	DE155	DE155	DE155	DE167	DE221	DE221
Start Depth		4	9	4	9	4	9	4	9	0	4	9
End Depth		5	10	5	10	5	10	5	10	0.5	5	10
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	9.3 U	1.9 U	0.80 J Z	1.9 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	390 U	370 U	380 U	380 U	370 U	380 U	380 U	360 U	390 U	380 U
Benzidine	ug/kg	3700 U	3900 U	3700 U	3800 U	3800 U	3700 U	3800 U	3800 U	3600 U	3900 U	3800 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U
Benzyl Alcohol	ug/kg	560 U	580 U	560 U	570 U	570 U	560 U	570 U	570 U	550 U	580 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-072-SA5DN-SS-0.0-0.5	SL-072-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-9.0-10.0	SL-074-SA5DN-SS-0.0-0.5	SL-074-SA5DN-SB-4.0-5.0	SL-074-SA5DN-SB-9.0-10.0	SL-075-SA5DN-SS-0.0-0.5	SL-075-SA5DN-SB-4.0-5.0	SL-075-SA5DN-SB-9.0-10.0	SL-076-SA5DN-SS-0.0-0.5	SL-076-SA5DN-SB-4.0-5.0
Sample Date		05/17/2011	08/10/2011	05/17/2011	05/17/2011	05/17/2011	05/18/2011	05/18/2011	05/17/2011	05/23/2011	05/23/2011	05/17/2011	05/18/2011
SDG		DE152	DE221	DE153	DE153	DE152	DE155	DE155	DE152	DE159	DE159	DE152	DE155
Start Depth		0	4	4	9	0	4	9	0	4	9	0	4
End Depth		0.5	5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
2,4-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 UJ L	190 UJ L	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	560 U	590 U	560 U	560 U	550 U	560 U	580 U	610 U	570 U	570 U	550 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 UJ L	190 UJ L	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Phenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	29 J Z	--	26 J Z	27 J Z	360 U	--	36 J Z	410 U	--	24 J Z	360 U	21 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	--	--	99 U	7.3 J Z	--	110 U	21 U	--	98 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	200 U	--	190 U	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	9.3 J FD, E, Z	21 U	8.8 J Z	8.8 J Z	99 U	20 U	21 U	110 U	21 U	--	98 U	20 U
Hexachlorobenzene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 UJ L	190 UJ L	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	4.5 J E	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
2,4-Dichlorophenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	20 J Z	--
Pyrene (8270C SIM)	ug/kg	54 J E	2.0 U	1.9	2.5	41	1.9 U	1.9 U	10 U	1.9 U	9.4 U	--	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	200 U	--	190 U	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	14 J Q, E, Z	21 U	20 U	20 U	99 U	20 U	21 U	110 U	21 U	--	98 U	20 UJ Q
Dibenzofuran	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	8.2 J FD, Q	2.0 U	0.99 J Z	1.1 J Z	8.9 J Z	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	7.5	2.0 U	1.9 U	1.9 U	9.1 J Z	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	38	2.0 U	3.6	4.5	74	1.9 U	1.9 U	10 U	1.9 U	4.2 J Z	13	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	66 J Q, E	2.0 U	0.81 J Z	1.9 U	39	1.9 U	1.9 U	10 U	1.9 U	5.0 J Z	14	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	18	2.0 U	1.9 U	1.9 U	27	1.9 U	1.9 U	10 U	1.9 U	9.4 U	3.7 J Z	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	0.59 J FD, E, Z	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	30	2.0 U	3.9	4.3	34	1.9 U	1.9 U	2.2 J Z	1.9 U	3.4 J Z	7.2 J Z	0.39 J FD, Q, Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	23	2.0 U	1.9 U	1.9 U	34	1.9 U	1.9 U	10 U	1.9 U	9.4 U	5.9 J Z	1.8 UJ Q
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	1100 UJ L	1100 UJ L	1100 U	1100 UJ L	1200 UJ L	1200 U	1100 U	1100 U	1100 U	1100 R Q, L
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	590 U	560 UJ L	560 UJ L	550 U	560 UJ L	580 UJ L	610 U	570 U	570 U	550 U	550 UJ Q, L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.5 J FD, Q, E	2.0 U	1.9 U	1.9 U	3.7 J Z	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	19	2.0 U	0.92 J Z	0.94 J Z	32	1.9 U	1.9 U	10 U	1.9 U	9.4 U	5.6 J Z	1.8 UJ Q
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Aniline	ug/kg	560 U	590 U	560 U	560 U	550 U	560 U	580 U	610 U	570 U	570 U	550 U	550 U
Benzoic Acid	ug/kg	560 U	590 U	560 U	560 U	550 U	560 U	580 U	610 U	570 U	570 U	550 U	550 U
Hexachloroethane	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	590 U	560 U	560 U	550 U	560 U	580 U	610 U	570 U	570 U	550 U	550 U
Isophorone	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	3.5 J Q, E	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
Diethylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	200 U	--	190 U	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 UJ Q	21 U	20 U	20 U	99 U	20 U	21 U	110 U	21 U	--	98 U	20 UJ Q
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	200 U	--	190 U	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 UJ Q	21 U	20 U	20 U	99 U	20 U	21 U	110 U	21 U	--	98 U	20 UJ Q
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	33 J FD, E	2.0 U	2.6	3.5	5.6 J Z	1.9 U	1.9 U	10 U	1.9 U	8.6 J Z	5.6 J Z	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	200 U	--	190 U	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	7.3 J Q, Z	21 U	20 U	20 U	99 U	20 U	21 U	110 U	21 U	--	98 U	20 UJ Q
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2.3 J FD, E	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
Carbazole	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	560 U	590 U	560 U	560 U	550 U	560 U	580 U	610 U	570 U	570 U	550 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 UJ L	190 UJ L	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	0.80 J FD, Q, E, Z	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

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Sample Name		SL-072-SA5DN-SS-0.0-0.5	SL-072-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-9.0-10.0	SL-074-SA5DN-SS-0.0-0.5	SL-074-SA5DN-SB-4.0-5.0	SL-074-SA5DN-SB-9.0-10.0	SL-075-SA5DN-SS-0.0-0.5	SL-075-SA5DN-SB-4.0-5.0	SL-075-SA5DN-SB-9.0-10.0	SL-076-SA5DN-SS-0.0-0.5	SL-076-SA5DN-SB-4.0-5.0
Sample Date		05/17/2011	08/10/2011	05/17/2011	05/17/2011	05/17/2011	05/18/2011	05/18/2011	05/17/2011	05/23/2011	05/23/2011	05/17/2011	05/18/2011
SDG		DE152	DE221	DE153	DE153	DE152	DE155	DE155	DE152	DE159	DE159	DE152	DE155
Start Depth		0	4	4	9	0	4	9	0	4	9	0	4
End Depth		0.5	5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.5 J FD, Q, E, Z	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	7.6 J Z	9.0 U	1.8 UJ Q
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	0.84 J FD, E, Z	2.0 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	10 U	1.9 U	9.4 U	9.0 U	1.8 UJ Q
2-Chloronaphthalene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	400 U	380 U	380 U	360 U	370 U	380 U	410 U	380 U	380 U	360 U	360 U
Benzidine	ug/kg	3700 R Q	4000 U	3800 U	3800 U	3600 U	3700 U	3800 U	4100 U	3800 U	3800 U	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	560 U	590 U	560 U	560 U	550 U	560 U	580 U	610 U	570 U	570 U	550 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	180 U	190 U	190 U	200 U	190 U	190 U	180 U	180 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-076-SA5DN-SB-9.0-10.0	SL-077-SA5DN-SB-4.0-5.0	SL-077-SA5DN-SB-9.0-10.0	SL-078-SA5DN-SB-4.0-5.0	SL-078-SA5DN-SB-9.0-10.0	SL-079-SA5DN-SS-0.0-0.5	SL-079-SA5DN-SB-4.0-5.0	SL-079-SA5DN-SB-9.0-10.0	SL-080-SA5DN-SS-0.0-0.5	SL-080-SA5DN-SB-4.0-5.0	SL-080-SA5DN-SB-8.0-9.0	SL-081-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	06/27/2011	06/27/2011	06/27/2011	06/27/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011
SDG		DE155	DE189	DE189	DE189	DE189	DE152	DE156	DE156	DE152	DE156	DE156	DE152
Start Depth		9	4	9	4	9	0	4	9	0	4	8	0
End Depth		10	5	10	5	10	0.5	5	10	0.5	5	9	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	46 J Z	48 J Z	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	570 U	590 U	600 U	580 U	580 U	540 U	560 U	600 U	550 U	550 U	550 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Phenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	24 J Z	--	21 J Z	--	--	--	--	20 J Z	360 U	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	14 J Z	--	8.9 J Z	7.0 J Z	38 J Z	20 U	--	--	6.8 J Z	20 U	13 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	180 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	7.9 J Z	21 U	21 U	21 U	--	20 U	22 U	--	20 U B	20 U	19
Hexachlorobenzene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	0.62 J Z
2,4-Dichlorophenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	28 J Z	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.3 J Z	1.9 U	1.9 U	--	1.8 U	2.0 U	7.5 J Z	1.8 U	1.8 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	180 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	--	20 U	22 U	--	20 U	20 U	19 U
Dibenzofuran	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	3.3
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	3.3
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.3 J Z	1.9 U	0.96 J Z	1.9 U	1.9 U	17	1.8 U	2.0 U	16	1.8 U	1.8 U	1.1 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	29 J Z	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.4 J Z	1.9 U	1.3 J Z	1.9 U	1.9 U	--	1.8 U	2.0 U	8.9 J Z	1.8 U	1.8 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	5.0 J Z	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.86 J Z	1.9 U	0.60 J Z	1.9 U	1.9 U	9.2	1.8 U	2.0 U	6.9 J Z	1.8 U	1.8 U	0.41 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.89 J L, Z	1.9 U	2.0 U	1.9 U	1.9 U	7.8 J Z	1.8 U	2.0 U	5.2 J Z	1.8 U	1.8 U	0.85 J Z
2,4-Dinitrophenol	ug/kg	1100 UJ L	1200 UJ L	1200 UJ L	1200 UJ L	1200 UJ L	1100 U	1100 UJ L	1200 UJ L	1100 U	1100 UJ L	1100 UJ L	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 UJ L	590 UJ L	600 UJ L	580 UJ L	580 UJ L	540 U	560 UJ L	600 UJ L	550 U	550 UJ L	550 UJ L	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	3.6
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.93 J Z	1.9 U	2.0 U	1.9 U	1.9 U	6.6 J Z	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Aniline	ug/kg	570 U	590 U	600 U	580 U	580 U	540 U	560 U	600 U	550 U	550 U	550 U	540 U
Benzoic Acid	ug/kg	570 U	590 U	600 U	580 U	580 U	540 U	560 U	600 U	550 U	550 U	550 U	540 U
Hexachloroethane	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	570 U	590 U	600 U	580 U	580 U	540 U	560 U	600 U	550 U	550 U	550 U	540 U
Isophorone	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	--	20 U	22 U	--	20 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	180 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	--	20 U	22 U	--	20 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	8.3 J Z	1.8 U	2.0 U	4.3 J Z	1.8 U	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	180 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	--	20 U	22 U	--	20 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	570 U	590 U	600 U	580 U	580 U	540 U	560 U	600 U	550 U	550 U	550 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-076-SA5DN-SB-9.0-10.0	SL-077-SA5DN-SB-4.0-5.0	SL-077-SA5DN-SB-9.0-10.0	SL-078-SA5DN-SB-4.0-5.0	SL-078-SA5DN-SB-9.0-10.0	SL-079-SA5DN-SS-0.0-0.5	SL-079-SA5DN-SB-4.0-5.0	SL-079-SA5DN-SB-9.0-10.0	SL-080-SA5DN-SS-0.0-0.5	SL-080-SA5DN-SB-4.0-5.0	SL-080-SA5DN-SB-8.0-9.0	SL-081-SA5DN-SS-0.0-0.5
Sample Date		05/18/2011	06/27/2011	06/27/2011	06/27/2011	06/27/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011
SDG		DE155	DE189	DE189	DE189	DE189	DE152	DE156	DE156	DE152	DE156	DE156	DE152
Start Depth		9	4	9	4	9	0	4	9	0	4	8	0
End Depth		10	5	10	5	10	0.5	5	10	0.5	5	9	0.5
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	0.78 J Z	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	9.1 U	1.8 U	2.0 U	9.2 U	1.8 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	400 U	400 U	390 U	380 U	360 U	370 U	400 U	360 U	370 U	360 U	360 U
Benzidine	ug/kg	3800 U	4000 U	4000 U	3900 U	3800 U	3600 U	3700 U	4000 U	3600 U	3700 U	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	570 U	590 U	600 U	580 U	580 U	540 U	560 U	600 U	550 U	550 U	550 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	200 U	190 U	190 U	180 U	190 U	200 U	180 U	180 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-081-SA5DN-SB-4.0-5.0	SL-081-SA5DN-SB-9.0-10.0	SL-082-SA5DN-SS-0.0-0.5	SL-082-SA5DN-SB-4.0-5.0	SL-083-SA5DN-SS-0.0-0.5	SL-083-SA5DN-SB-4.0-5.0	SL-084-SA5DN-SS-0.0-0.5	SL-084-SA5DN-SB-4.0-5.0	SL-085-SA5DN-SB-2.5-3.5	SL-086-SA5DN-SS-0.0-0.5	SL-086-SA5DN-SB-4.0-5.0	SL-087-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	05/23/2011	05/17/2011	05/19/2011	05/17/2011	08/08/2011	05/17/2011	05/23/2011	06/27/2011	05/18/2011	05/20/2011	05/18/2011
SDG		DE159	DE159	DE152	DE156	DE152	DE219	DE152	DE159	DE189	DE154	DE158	DE154
Start Depth		4	9	0	4	0	4	0	4	2.5	0	4	0
End Depth		5	10	0.5	5	0.5	5	0.5	5	3.5	0.5	5	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	386 U	37.9 U B	57.1
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	9.3 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	180 UJ L	180 UJ L	180 U	180 U	180 U	190 U	190 U	180 UJ L	190 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	550 U	540 U	550 U	540 U	550 U	570 U	560 U	550 U	580 U	580 U	570 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 UJ L	180 UJ L	180 U	180 U	180 U	190 U	190 U	180 UJ L	190 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	180 U	190 UJ L	190 U	180 U	190 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	370 U	--	370 U	--	--	--	--	27 J Z	22 J L, Z	38 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	20 U	--	19 U	--	7.6 J Z	14 J Z	20 U	12 J Z	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	180 U	--	180 U	--	--	--	--	--	--	180 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	--	19 U	--	21 U	20 U	20 U	13 J Z	21 U	21 U	--
Hexachlorobenzene	ug/kg	180 UJ L	180 UJ L	180 U	180 U	180 U	190 U	190 U	180 UJ L	190 U	190 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	12	1.8 U	1.9 U	0.59 J Z	1.9 U	14
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	10	1.8 U	19	1.9 U	210	1.8 U	1.9 U	2.5	1.9 U	120
Dimethylphthalate (8270C)	ug/kg	--	--	180 U	--	180 U	--	--	--	--	--	--	180 U
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	--	19 U	--	21 U	20 U	20 U	21 U	21 U	21 U	--
Dibenzofuran	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	22 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	16	1.8 U	1.9 U	1.9 U	1.9 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	19	1.8 U	1.9 U	1.9 U	1.9 U	17
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.1 J Z	20	1.8 U	34	1.9 U	200	1.8 U	1.9 U	1.8 J Z	1.9 U	92
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	12	1.8 U	25	1.9 U	250	1.8 U	1.9 U	5	1.9 U	210
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	69	1.8 U	1.9 U	3.4	1.9 U	28
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	0.49 J Z	1.8 U	1.9 U	1.9 U	1.9 U	2.2 J Z
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	0.55 J Z	7.0 J Z	1.8 U	10	1.9 U	110	1.8 U	1.9 U	2	1.9 U	68
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	6.7 J Z	1.8 U	9.6	1.9 U	93	1.8 U	1.9 U	1.1 J Z	1.9 U	53
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 UJ L	1100 U	1100 U	1100 U	1100 U	1200 UJ L	1200 UJ L	1100 UJ L	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	540 U	550 U	540 UJ L	550 U	570 UJ L	560 U	550 U	580 UJ L	580 U	570 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	6.8	1.8 U	1.9 U	1.9 U	1.9 U	5.8 J Z
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	5.1 J Z	1.8 U	6.1 J Z	1.9 U	120	1.8 U	1.9 U	0.93 J Z	1.9 U	67
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Aniline	ug/kg	550 U	540 U	550 U	540 U	550 U	570 U	560 U	550 U	580 U	580 U	570 U	550 U
Benzoic Acid	ug/kg	550 U	540 U	550 U	540 U	550 U	570 UJ L	560 U	550 U	580 U	580 U	570 U	550 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	540 U	550 U	540 U	550 U	570 U	560 U	550 U	580 U	580 U	570 U	550 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	2.2	1.8 U	1.9 U	1.9 U	1.9 U	9.3 U
Diethylphthalate (8270C)	ug/kg	--	--	180 U	--	180 U	--	--	--	--	--	--	180 U
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	--	19 U	--	21 U	20 U	20 U	21 U	21 U	21 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	180 U	--	180 U	--	--	--	--	--	--	180 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	--	19 U	--	21 U	20 U	20 U	21 U	21 U	21 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	5.1 J Z	1.8 U	15	1.9 U	48	1.8 U	1.9 U	2.5	1.9 U	49
Butylbenzylphthalate (8270C)	ug/kg	--	--	180 U	--	180 U	--	--	--	--	--	--	180 U
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	--	19 U	--	21 U	20 U	20 U	21 U	21 U	21 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	1.1 J Z	1.8 U	1.9 U	1.9 U	1.9 U	9.3 U
Carbazole	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	550 U	540 U	550 U	540 U	550 U	570 U	560 U	550 U	580 U	580 U	570 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	180 UJ L	180 UJ L	180 U	180 U	180 U	190 U	190 U	180 UJ L	190 U	190 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	9.3 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-081-SA5DN-SB-4.0-5.0	SL-081-SA5DN-SB-9.0-10.0	SL-082-SA5DN-SS-0.0-0.5	SL-082-SA5DN-SB-4.0-5.0	SL-083-SA5DN-SS-0.0-0.5	SL-083-SA5DN-SB-4.0-5.0	SL-084-SA5DN-SS-0.0-0.5	SL-084-SA5DN-SB-4.0-5.0	SL-085-SA5DN-SB-2.5-3.5	SL-086-SA5DN-SS-0.0-0.5	SL-086-SA5DN-SB-4.0-5.0	SL-087-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	05/23/2011	05/17/2011	05/19/2011	05/17/2011	08/08/2011	05/17/2011	05/23/2011	06/27/2011	05/18/2011	05/20/2011	05/18/2011
SDG		DE159	DE159	DE152	DE156	DE152	DE219	DE152	DE159	DE189	DE154	DE158	DE154
Start Depth		4	9	0	4	0	4	0	4	2.5	0	4	0
End Depth		5	10	0.5	5	0.5	5	0.5	5	3.5	0.5	5	0.5
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	1.1 J Z	1.8 U	1.9 U	1.9 U	1.9 U	9.3 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	9.1 U	1.8 U	9.1 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	9.3 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	370 U	360 U	370 U	380 U	380 U	370 U	390 U	380 U	380 U	370 U
Benzidine	ug/kg	3700 U	3600 U	3700 U	3600 U	3700 U	3800 U	3800 U	3700 U	3900 U	3800 U	3800 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	550 U	540 U	550 U	540 U	550 U	570 U	560 U	550 U	580 U	580 U	570 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-088-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SB-4.0-5.0	SL-089-SA5DN-SS-0.0-0.5	SL-089-SA5DN-SB-4.0-5.0	SL-090-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SS-0.0-0.5	SL-092-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SB-7.0-8.0	SL-093-SA5DN-SS-0.0-0.5	SL-093-SA5DN-SB-4.0-5.0
Sample Date		05/18/2011	05/20/2011	05/18/2011	05/23/2011	05/18/2011	05/27/2011	06/24/2011	05/27/2011	06/24/2011	06/24/2011	05/27/2011	06/20/2011
SDG		DE154	DE158	DE154	DE159	DE154	DE167	DE188	DE167	DE188	DE188	DE167	DE184
Start Depth		0	4	0	4	0	0	4	0	4	7	0	4
End Depth		0.5	5	0.5	5	0.5	0.5	5	0.5	5	8	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	49.9	36.7 U	33.9 J Z	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	10 U	9.0 U	2.0 U	9.3 U	1.9 U	1.9 U	9.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Nitrobenzene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Hexachlorobutadiene	ug/kg	190 U	200 U	190 U	180 UJ L	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
4-Nitroaniline	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
4-Nitrophenol	ug/kg	560 U	590 U	570 U	550 U	610 U	540 U	590 U	550 U	570 U	580 U	550 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	190 U	180 UJ L	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
4-Methylphenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
4-Chloroaniline	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Phenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	28 J Z	22 J L, Z	21 J Z	--	28 J Z	43 J Z	--	40 J Z	--	--	33 J Z	20 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	20 U	--	--	9.5 J Z	--	21 U	8.8 J Z	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	200 U	180 U	--	180 U	--	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	--	--	21 U	--	21 U	21 U	--	21 U
Hexachlorobenzene	ug/kg	190 U	200 U	190 U	180 UJ L	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.7 J Z	1.8 U	10 U	3.5 J Z	2.0 U	12	1.9 U	1.9 U	9.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	130 J Z	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.3 J Z	2.0 U	13 J FD	1.8 U	5.6 J Z	--	1.0 J Z	92	1.9 U	1.9	7.0 J Z	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	200 U	180 U	--	180 U	--	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	--	--	21 U	--	21 U	21 U	--	21 U
Dibenzofuran	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.6 J FD, Z	1.8 U	4.9 J Z	13	2.0 U	26	1.9 U	0.84 J Z	9.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.5 J FD, Z	1.8 U	10 U	11	2.0 U	24	1.9 U	1.9 U	9.0 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	68 J Z	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.0 J Z	2.0 U	12 J FD	1.8 U	7.4 J Z	--	1.2 J Z	68	1.9 U	2.3	4.9 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	25 J Z	--	--	120 J Z	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2	2.0 U	--	1.8 U	7.5 J Z	--	2.0 U	110	1.9 U	1.6 J Z	7.8 J Z	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	27 J Z	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.2	2.0 U	1.9 UJ FD	1.8 U	10 U	--	2.0 U	29	1.9 U	1.0 J Z	9.0 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 UJ FD	1.8 U	10 U	9.0 U	2.0 U	9.3 U	1.9 U	1.9 U	9.0 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	78 J Z	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.5 J Z	2.0 U	10 J FD	1.8 U	5.7 J Z	--	1.2 J Z	70	1.9 U	1.2 J Z	5.6 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	58 J Z	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	2.0 U	3.8 J FD	1.8 U	4.5 J Z	--	2.0 U	46	1.9 U	1.3 J Z	9.0 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 UJ L	1200 UJ L	1100 UJ L	1100 U	1200 UJ L	1100 UJ L	1200 U	1100 UJ L	1100 U	1200 U	1100 UJ L	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	590 U	570 U	550 U	610 U	540 U	590 U	550 U	570 U	580 U	550 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	10 U	3.8 J Z	2.0 U	8.0 J Z	1.9 U	1.9 U	9.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	56 J Z	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	2.0 U	2.8 J FD	1.8 U	10 U	--	2.0 U	46	1.9 U	1.2 J Z	9.0 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Aniline	ug/kg	560 U	590 U	570 U	550 U	610 U	540 U	590 U	550 U	570 U	580 U	550 U	590 U
Benzoic Acid	ug/kg	560 U	590 U	570 U	550 U	610 U	540 U	590 U	550 U	570 U	580 U	550 U	590 U
Hexachloroethane	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Hexachlorocyclopentadiene	ug/kg	560 U	590 U	570 U	550 U	610 U	540 U	590 U	550 U	570 U	580 U	550 U	590 U
Isophorone	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	10 U	9.0 U	2.0 U	7.5 J Z	1.9 U	1.9 U	9.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	200 U	180 U	--	180 U	--	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	--	--	21 U	--	21 U	21 U	--	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	200 U	180 U	--	180 U	--	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	--	--	21 U	--	21 U	21 U	--	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	76 J Z	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.1 J Z	2.0 U	13 J FD	1.8 U	10 U	--	2.0 U	64	1.9 U	1.9 U	4.8 J Z	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	200 U	24 J Z	--	180 U	--	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	20 U	--	--	21 U	--	21 U	21 U	--	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	10 U	9.0 U	2.0 U	6.0 J Z	1.9 U	1.9 U	9.0 U	1.9 U
Carbazole	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Pentachlorophenol	ug/kg	560 U	590 U	570 U	550 U	610 U	540 U	590 U	550 U	570 U	580 U	550 U	590 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
2-Nitroaniline	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
2-Nitrophenol	ug/kg	190 U	200 U	190 U	180 UJ L	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	10 U	9.0 U	2.0 U	9.3 U	1.9 U	1.9 U	9.0 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-088-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SB-4.0-5.0	SL-089-SA5DN-SS-0.0-0.5	SL-089-SA5DN-SB-4.0-5.0	SL-090-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SS-0.0-0.5	SL-092-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SB-7.0-8.0	SL-093-SA5DN-SS-0.0-0.5	SL-093-SA5DN-SB-4.0-5.0
Sample Date		05/18/2011	05/20/2011	05/18/2011	05/23/2011	05/18/2011	05/27/2011	06/24/2011	05/27/2011	06/24/2011	06/24/2011	05/27/2011	06/20/2011
SDG		DE154	DE158	DE154	DE159	DE154	DE167	DE188	DE167	DE188	DE188	DE167	DE184
Start Depth		0	4	0	4	0	0	4	0	4	7	0	4
End Depth		0.5	5	0.5	5	0.5	0.5	5	0.5	5	8	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	10 U	9.0 U	2.0 U	9.3 U	1.9 U	1.9 U	9.0 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	10 U	9.0 U	2.0 U	9.3 U	1.9 U	1.9 U	9.0 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
3,3`-Dichlorobenzidine	ug/kg	370 U	390 U	380 U	370 U	410 U	360 U	390 U	370 U	380 U	390 U	360 U	390 U
Benzidine	ug/kg	3700 U	3900 U	3800 UJ Q	3700 U	4100 U	3600 U	3900 U	3700 U	3800 U	3900 U	3600 U	3900 U
2-Methylphenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
2-Chlorophenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
3-Nitroaniline	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U
Benzyl Alcohol	ug/kg	560 U	590 U	570 U	550 U	610 U	540 U	590 U	550 U	570 U	580 U	550 U	590 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	190 U	180 U	200 U	180 U	200 U	180 U	190 U	190 U	180 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-093-SA5DN-SB-9.0-10.0	SL-094-SA5DN-SS-0.0-0.5	SL-094-SA5DN-SB-4.0-5.0	SL-094-SA5DN-SB-9.0-10.0	SL-095-SA5DN-SS-0.0-0.5	SL-095-SA5DN-SB-4.0-5.0	SL-095-SA5DN-SB-9.0-10.0	SL-097-SA5DN-SS-0.0-0.5	SL-097-SA5DN-SB-4.0-5.0	SL-097-SA5DN-SB-8.5-9.5	SL-098-SA5DN-SS-0.0-0.5	SL-098-SA5DN-SB-4.0-5.0
Sample Date		06/20/2011	05/31/2011	06/22/2011	06/22/2011	05/31/2011	06/22/2011	06/22/2011	05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011
SDG		DE184	DE169	DE186	DE186	DE169	DE186	DE186	DE169	DE185	DE185	DE169	DE185
Start Depth		9	0	4	9	0	4	9	0	4	8.5	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	9.5	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	371 U	20.9 J Z	37.2 U	375 U	389 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	560 U	550 U	580 U	570 U	530 U	560 U	560 U	550 U	580 U	560 U	560 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	28 J L, Z	21 J Z	--	18 J L, Z	19 J Z	--	33 J L, Z	22 J Z	21 J Z	31 J L, Z	49 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	--	21 U	--	--	20 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	19 U	20 U	20 U	20 U	21 U	20 U	20 U	21 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	8.8	1.9 U	1.9 U	2.1	1.9 U	1.9 U	1.4 J Z	1.9 U	1.9 U	74	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	55	1.9 U	1.9 U	23	1.9 U	1.9 U	12	1.9 U	1.9 U	880	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	19 U	20 U	20 U	20 U	21 U	20 U	20 U	21 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	130 J L, Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	7.2	1.9 U	1.9 U	5.1	1.9 U	1.9 U	2.4	1.9 U	1.9 U	--	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	120 J L, Z	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	7.3	1.9 U	1.9 U	4.2	1.9 U	1.9 U	2.5	1.9 U	1.9 U	--	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	42	1.9 U	1.9 U	31	1.9 U	1.9 U	12	1.9 U	1.9 U	770	0.79 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	70	1.9 U	1.9 U	23	1.9 U	1.9 U	12	1.9 U	1.9 U	1100	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	20	1.9 U	1.9 U	13	1.9 U	1.9 U	9.2	1.9 U	1.9 U	330	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	0.46 J Z	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.82 J Z	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	34	1.9 U	1.9 U	29	1.9 U	0.75 J Z	12	1.9 U	1.9 U	540	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	26	1.9 U	1.9 U	13	1.9 U	1.9 U	7.4	1.9 U	1.9 U	480	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1200 U	1100 U	1100 U	1100 U	1100 U	1100 U	1200 U	1100 U	1100 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	550 U	580 U	570 U	530 U	560 U	560 U	550 U	580 U	560 U	560 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	43 J L, Z	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2.8	1.9 U	1.9 U	2.1	1.9 U	1.9 U	1.4 J Z	1.9 U	1.9 U	--	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	29	1.9 U	1.9 U	9.9	1.9 U	1.9 U	5.3	1.9 U	1.9 U	590	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	560 U	550 U	580 U	570 U	530 U	560 U	560 U	550 U	580 U	560 U	560 U	580 U
Benzoic Acid	ug/kg	560 U	550 U	580 U	570 U	530 U	560 U	560 U	550 U	580 U	560 U	560 U	580 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	550 U	580 U	570 U	530 U	560 U	560 U	550 U	580 U	560 U	560 U	580 U
Isophorone	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	4.2	1.9 U	1.9 U	0.87 J Z	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	15	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	19 U	20 U	20 U	20 U	21 U	20 U	20 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	19 U	22	20 U	20 U	21 U	20 U	20 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	37	1.9 U	1.9 U	10	1.9 U	1.9 U	5.2	1.9 U	1.9 U	320	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	19 U	20 U	20 U	20 U	21 U	20 U	20 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	3.1	1.9 U	1.9 U	1.1 J Z	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.8	1.9 U
Carbazole	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	35 J L, Z	190 U
Pentachlorophenol	ug/kg	560 U	550 U	580 U	570 U	530 U	560 U	560 U	550 U	580 U	560 U	560 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	0.89 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.99 J Z	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-093-SA5DN-SB-9.0-10.0	SL-094-SA5DN-SS-0.0-0.5	SL-094-SA5DN-SB-4.0-5.0	SL-094-SA5DN-SB-9.0-10.0	SL-095-SA5DN-SS-0.0-0.5	SL-095-SA5DN-SB-4.0-5.0	SL-095-SA5DN-SB-9.0-10.0	SL-097-SA5DN-SS-0.0-0.5	SL-097-SA5DN-SB-4.0-5.0	SL-097-SA5DN-SB-8.5-9.5	SL-098-SA5DN-SS-0.0-0.5	SL-098-SA5DN-SB-4.0-5.0
Sample Date		06/20/2011	05/31/2011	06/22/2011	06/22/2011	05/31/2011	06/22/2011	06/22/2011	05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011
SDG		DE184	DE169	DE186	DE186	DE169	DE186	DE186	DE169	DE185	DE185	DE169	DE185
Start Depth		9	0	4	9	0	4	9	0	4	8.5	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	9.5	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.9 U	1.9 U	1.0 J Z	1.9 U	1.9 U	0.75 J Z	1.9 U	1.9 U	1.2 J Z	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	0.90 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.96 J Z	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	370 U	390 U	380 U	350 U	380 U	370 U	370 U	390 U	370 U	370 U	390 U
Benzidine	ug/kg	3800 U	3700 U	3900 U	3800 U	3500 U	3800 U	3700 U	3700 U	3900 U	3700 U	3700 U	3900 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	560 U	550 U	580 U	570 U	530 U	560 U	560 U	550 U	580 U	560 U	560 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA5DN-SB-7.0-8.0	SL-099-SA5DN-SS-0.0-0.5	SL-099-SA5DN-SB-4.0-5.0	SL-100-SA5DN-SS-0.0-0.5	SL-100-SA5DN-SB-3.0-4.0	SL-101-SA5DN-SS-0.0-0.5	SL-101-SA5DN-SB-2.5-3.5	SL-102-SA5DN-SS-0.0-0.5	SL-102-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SS-0.0-0.5	SL-103-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SB-7.0-8.0
Sample Date		06/21/2011	05/31/2011	06/21/2011	06/01/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/24/2011	06/24/2011
SDG		DE185	DE169	DE185	DE170	DE187	DE169	DE187	DE169	DE187	DE169	DE188	DE188
Start Depth		7	0	4	0	3	0	2.5	0	4	0	4	7
End Depth		8	0.5	5	0.5	4	0.5	3.5	0.5	5	0.5	5	8
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	39.1	355 U	37.2 U	352 U	37.8 U	--	--	365 U	35.5 U	365 U	365 U	39.2 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	9.0 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	530 U	520 U	550 U	530 U	540 U	540 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	23 J Z	--	19 J Z	150 J L, Z	--	--	--	--	--	41 J L, Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	87	--	--	12 J Z	48	6.5 J Z	280	6.4 J Z	--	20 U	7.3 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	19 U	20 U	19 U	20 U	19 U	19 U	7.8 J Z	19 U	97 U	20 U	21 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	3.5	1.9 U	1.8 U	1.3 J Z	2.9	1.7 U	11	0.45 J Z	4.2 J Z	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	36 J L, Z	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	54	1.9 U	--	3.5	41	1.7 U	140	1.8 U	36	1.8 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	19 U	20 U	19 U	20 U	19 U	19 U	20 U	19 U	97 U	20 U	21 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	12	1.9 U	1.8 U	2.4	8.5	1.7 U	20	1.8 U	11	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	13	1.9 U	1.8 U	2	5.5	1.7 U	22	1.8 U	10	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	25 J Z	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	82	1.9 U	--	4	42	1.7 U	120	1.8 U	42	0.76 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	34 J L, Z	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	45	1.9 U	--	3.2	28	1.7 U	190	1.8 U	42	1.8 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	35	1.9 U	1.8 U	2.3	19	1.7 U	50	1.8 U	18	1.8 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	0.49 J Z	1.9 U	1.8 U	0.50 J Z	0.73 J Z	1.7 U	0.42 J Z	1.8 U	9.0 U	1.8 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	19 J L, Z	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	51	1.9 U	--	3.2	56	1.7 U	76	0.53 J Z	33	0.91 J Z	0.47 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	43	1.9 U	1.8 U	2.8	18	1.7 U	70	1.8 U	25	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1100 U	1100 U	1100 U	1000 U	1100 U	1100 U	1100 U	1100 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	530 U	560 U	530 U	560 U	530 U	520 U	550 U	530 U	540 U	540 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	4.6	1.9 U	1.8 U	1.4 J Z	3.3	1.7 U	7.7	1.8 U	3.7 J Z	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	21 J L, Z	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	35	1.9 U	--	2.5	12	1.7 U	87	1.8 U	24	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Aniline	ug/kg	580 U	530 U	560 U	530 U	560 U	530 U	520 U	550 U	530 U	540 U	540 U	580 U
Benzoic Acid	ug/kg	580 U	530 U	560 U	530 U	560 U	530 U	520 U	550 U	530 U	540 U	540 U	580 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	530 U	560 U	530 U	560 U	530 U	520 U	550 U	530 U	540 U	540 U	580 U
Isophorone	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.9 U	1.8 U	1.9 U	1.3 J Z	1.7 U	2.5	1.8 U	9.0 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	19 U	20 U	19 U	20 U	19 U	19 U	20 U	19 U	97 U	20 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	19 U	20 U	19 U	20 U	7.9 J Z	19 U	20 U	19 U	97 U	20 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	9.3	1.9 U	1.8 U	1.7 J Z	17	1.7 U	52	1.8 U	13	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	19 U	20 U	19 U	20 U	13 J Z	19 U	20 U	19 U	97 U	20 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	0.75 J Z	1.9 U	1.8 U	1.0 J Z	1.6 J Z	1.7 U	1.5 J Z	1.8 U	9.0 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	530 U	520 U	550 U	530 U	540 U	540 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.9 U	1.8 U	1.9 U	1.2 J Z	1.7 U	1.8 U	1.8 U	9.0 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-098-SA5DN-SB-7.0-8.0	SL-099-SA5DN-SS-0.0-0.5	SL-099-SA5DN-SB-4.0-5.0	SL-100-SA5DN-SS-0.0-0.5	SL-100-SA5DN-SB-3.0-4.0	SL-101-SA5DN-SS-0.0-0.5	SL-101-SA5DN-SB-2.5-3.5	SL-102-SA5DN-SS-0.0-0.5	SL-102-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SS-0.0-0.5	SL-103-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SB-7.0-8.0
Sample Date		06/21/2011	05/31/2011	06/21/2011	06/01/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/24/2011	06/24/2011
SDG		DE185	DE169	DE185	DE170	DE187	DE169	DE187	DE169	DE187	DE169	DE188	DE188
Start Depth		7	0	4	0	3	0	2.5	0	4	0	4	7
End Depth		8	0.5	5	0.5	4	0.5	3.5	0.5	5	0.5	5	8
Naphthalene (8270C SIM)	ug/kg	1.9 U	0.80 J Z	1.9 U	1.8 U	1.9 U	1.9	1.7 U	0.88 J Z	1.8 U	4.4 J Z	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.9 U	1.8 U	1.9 U	1.4 J Z	1.7 U	1.8 U	1.8 U	9.0 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	350 U	380 U	350 U	380 U	350 U	350 U	370 U	350 U	360 U	360 U	390 U
Benzidine	ug/kg	3900 U	3500 U	3800 U	3500 U	3800 U	3500 U	3500 U	3700 U	3500 U	3600 U	3600 U	3900 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	580 U	530 U	560 U	530 U	560 U	530 U	520 U	550 U	530 U	540 U	540 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-104-SA5DN-SS-0.0-0.5	SL-104-SA5DN-SB-4.0-5.0	SL-105-SA5DN-SS-0.0-0.5	SL-105-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SS-0.0-0.5	SL-106-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SB-9.0-10.0	SL-107-SA5DN-SS-0.0-0.5	SL-107-SA5DN-SB-3.5-4.5	SL-108-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SB-3.5-4.5
Sample Date		05/31/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/23/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/01/2011	06/23/2011
SDG		DE169	DE187	DE170	DE187	DE170	DE187	DE187	DE170	DE187	DE170	DE170	DE187
Start Depth		0	4	0	4	0	4	9	0	3.5	0	0	3.5
End Depth		0.5	5	0.5	5	0.5	5	10	0.5	4.5	0.5	0.5	4.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	356 U	37.4 U	355 U	36.8 U	355 U	42	373 U	346 U	36.1 U	--	362 U	35.0 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.8 U	1.9 U	8.8 U	1.8 U	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
4-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	530 U	560 U	530 U	540 U	530 U	550 U	550 U	520 U	540 U	530 U	540 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Phenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	24 J L, Z	--	34 J L, Z	--	68 J L, Z	--	--	35 J L, Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	7.6 J Z	--	8.9 J Z	--	7.0 J Z	7.5 J Z	--	20 U	73 J Z	19 U	6.7 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	180 U	--	180 U	--	--	--	--	180 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	95 U	20 U	--	20 U	--	20 U	8.3 J Z	19 U	20 U	--	19 U	19 U
Hexachlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.5 J Z	1.9 U	60	0.76 J Z	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	64 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	1.9 U	280	19	13	1.9 U	1.9 U	1.0 J Z	1.8 U	5.0 J FD, Z	0.92 J Z	1.7 U
Dimethylphthalate (8270C)	ug/kg	180 U	--	180 U	--	180 U	--	--	--	--	180 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	95 U	20 U	--	20 U	--	20 U	20 U	19 U	20 U	--	19 U	19 U
Dibenzofuran	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	32 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	1.9 U	83	5.9	7.5 J Z	1.9 U	1.9 U	0.86 J Z	1.8 U	3.5 J Z	1.4 J Z	1.7 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	30 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	1.9 U	82	4.3	4.5 J Z	1.9 U	1.9 U	1.7 U	1.8 U	8.8 UJ FD	0.83 J Z	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	64 J Z	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	1.9 U	190	23	12	1.0 J Z	1.9 U	1.5 J Z	1.8 U	4.6 J FD, Z	1.3 J Z	1.7 U
Fluoranthene (8270C)	ug/kg	58 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	1.9 U	360	22	16	1.9 U	1.9 U	1.3 J Z	1.8 U	5.8 J FD, Z	0.94 J Z	1.7 U
Benzo(k)fluoranthene (8270C)	ug/kg	30 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	--	1.9 U	100	6.1	8.0 J Z	1.9 U	1.9 U	0.90 J Z	1.8 U	5.3 J FD, Z	1.1 J Z	1.7 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.8 U	1.9 U	8.8 U	1.8 U	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
Chrysene (8270C)	ug/kg	56 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	1.9 U	170	17	12	0.44 J Z	1.9 U	2.9	1.8 U	5.2 J Z	2	1.7 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	48 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	1.9 U	150	14	9	1.9 U	1.9 U	1.7 U	1.8 U	8.8 UJ FD	0.80 J Z	1.7 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1000 U	1100 U	1100 UJ Q	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	560 U	530 U	540 U	530 U	550 U	550 U	520 U	540 U	530 U	540 U	520 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	5.1 J Z	1.9 U	25	2	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
Benzo(a)anthracene (8270C)	ug/kg	40 J L, Z	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.9 U	160	12	7.7 J Z	1.9 U	1.9 U	1.7 U	1.8 U	8.8 UJ FD	1.8 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Aniline	ug/kg	530 U	560 U	530 U	540 U	530 U	550 U	550 U	520 U	540 U	530 U	540 U	520 U
Benzoic Acid	ug/kg	530 U	560 U	530 U	540 U	530 U	550 U	550 U	520 U	540 U	530 U	540 U	520 U
Hexachloroethane	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	530 U	560 U	530 U	540 U	530 U	550 U	550 U	520 U	540 U	530 U	540 U	520 U
Isophorone	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.8 U	1.9 U	36	1.8 U	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
Diethylphthalate (8270C)	ug/kg	180 U	--	180 U	--	180 U	--	--	--	--	180 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	95 U	20 U	--	20 U	--	20 U	20 U	19 U	20 U	--	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	180 U	--	180 U	--	--	--	--	180 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	95 U	20 U	--	20 U	--	20 U	20 U	44	20 U	--	19 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	8.6 J Z	1.9 U	160	3.9	7.0 J Z	1.9 U	1.9 U	1.7 U	1.8 U	8.8 UJ FD	1.8 U	1.7 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	180 U	--	180 U	--	--	--	--	180 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	95 U	20 U	--	20 U	--	20 U	20 U	19 U	20 U	--	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.8 U	1.9 U	20	1.8 U	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
Carbazole	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	530 U	560 U	530 U	540 U	530 U	550 U	550 U	520 U	540 U	530 U	540 U	520 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.8 U	1.9 U	8.8 U	1.8 U	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-104-SA5DN-SS-0.0-0.5	SL-104-SA5DN-SB-4.0-5.0	SL-105-SA5DN-SS-0.0-0.5	SL-105-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SS-0.0-0.5	SL-106-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SB-9.0-10.0	SL-107-SA5DN-SS-0.0-0.5	SL-107-SA5DN-SB-3.5-4.5	SL-108-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SB-3.5-4.5
Sample Date		05/31/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/23/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/01/2011	06/23/2011
SDG		DE169	DE187	DE170	DE187	DE170	DE187	DE187	DE170	DE187	DE170	DE170	DE187
Start Depth		0	4	0	4	0	4	9	0	3.5	0	0	3.5
End Depth		0.5	5	0.5	5	0.5	5	10	0.5	4.5	0.5	0.5	4.5
Naphthalene (8270C SIM)	ug/kg	8.8 U	1.9 U	3.6 J Z	1.8 U	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.8 U	1.9 U	8.8 U	1.8 U	8.9 U	1.9 U	1.9 U	1.7 U	1.8 U	8.8 U	1.8 U	1.7 U
2-Chloronaphthalene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	350 U	360 U	350 U	370 U	370 U	350 U	360 U	350 U	360 U	350 U
Benzidine	ug/kg	3500 U	3700 U	3500 U	3600 U	3500 U	3700 U	3700 U	3500 U	3600 U	3500 UJ Q	3600 U	3500 U
2-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	530 U	560 U	530 U	540 U	530 U	550 U	550 U	520 U	540 U	530 U	540 U	520 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-110-SA5DN-SS-0.0-0.5	SL-110-SA5DN-SB-4.0-5.0	SL-111-SA5DN-SS-0.0-0.5	SL-111-SA5DN-SB-4.0-5.0	SL-112-SA5DN-SS-0.0-0.5	SL-112-SA5DN-SB-4.0-5.0	SL-113-SA5DN-SS-0.0-0.5	SL-113-SA5DN-SB-4.0-5.0	SL-114-SA5DN-SS-0.0-0.5	SL-114-SA5DN-SB-4.0-5.0	SL-115-SA5DN-SB-4.0-5.0	SL-116-SA5DN-SB-2.0-3.0
Sample Date		05/31/2011	06/23/2011	05/31/2011	06/22/2011	05/31/2011	06/22/2011	05/31/2011	06/21/2011	05/31/2011	06/22/2011	06/22/2011	06/28/2011
SDG		DE169	DE187	DE169	DE186	DE169	DE186	DE169	DE185	DE169	DE186	DE186	DE190
Start Depth		0	4	0	4	0	4	0	4	0	4	4	2
End Depth		0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	5	3
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	365 U	36.4 U	371 U	37.6 U	364 U	38.5 U	365 U	39.2 U	357 U	37.0 U	38.2 U	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	9.1 U	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	550 U	540 U	550 U	570 U	540 U	580 U	550 U	590 U	530 U	560 U	570 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	18 J L, Z	--	50 J L, Z	21 J Z	26 J L, Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	96 J Z	19 U	99 U	11 J Z	--	21 U	--	--	--	20 U	20 U	6.8 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	98 U	19 U	99 U	20 U	98 U	21 U	98 U	21 U	96 U	20 U	20 U	19 UJ FD
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	3.0 J Z	1.1 J Z	8.9 U	1.9 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	18 J L, Z	--	--	--	--	--	300 J L	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	12	1.8 U	10	1.9 U	14	1.9 U	--	4.4	5.4 J Z	1.9 U	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	98 U	19 U	99 U	20 U	98 U	21 U	98 U	21 U	96 U	20 U	20 U	19 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	93 J L, Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	5.5 J Z	1.8 U	5.9 J Z	1.9 U	7.4 J Z	1.9 U	--	1.3 J Z	5.4 J Z	1.9 U	1.9 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	85 J L, Z	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	4.3 J Z	1.8 U	4.6 J Z	1.9 U	5.3 J Z	1.9 U	--	1.1 J Z	8.9 U	1.9 U	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	230	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	9.7	1.8 U	13	1.9 U	15	1.9 U	--	2.5	7.8 J Z	1.9 U	1.9 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	280 J L	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	12	1.8 U	11	1.9 U	15	1.9 U	--	4.5	6.0 J Z	1.9 U	1.9 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	130 J L, Z	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	8.7 J Z	1.8 U	6.8 J Z	1.9 U	8.6 J Z	1.9 U	--	1.1 J Z	6.3 J Z	1.9 U	1.9 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	9.1 U	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
Chrysene (8270C)	ug/kg	21 J L, Z	--	--	--	--	--	190 J L	--	59 J L, Z	--	--	--
Chrysene (8270C SIM)	ug/kg	14	1.8 U	11	1.9 U	20	1.9 U	--	2.3	--	1.9 U	1.9 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	170 J L, Z	--	28 J L, Z	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	7.5 J Z	1.8 U	8.3 J Z	1.9 U	9.1	1.9 U	--	1.9 J Z	--	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1200 U	1100 U	1200 U	1100 U	1100 U	1100 U	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	540 U	550 U	570 U	540 U	580 U	550 U	590 U	530 U	560 U	570 U	540 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	24 J L, Z	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	--	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	200 J L	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	7.1 J Z	1.8 U	7.1 J Z	1.9 U	7.8 J Z	1.9 U	--	1.9 J Z	8.9 U	1.9 U	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Aniline	ug/kg	550 U	540 U	550 U	570 U	540 U	580 U	550 U	590 U	530 U	560 U	570 U	540 U
Benzoic Acid	ug/kg	550 U	540 U	550 U	570 U	540 U	580 U	550 U	590 U	530 U	560 U	570 U	540 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	540 U	550 U	570 U	540 U	580 U	550 U	590 U	530 U	560 U	570 U	540 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	9.1 U	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	98 U	19 U	99 U	20 U	98 U	21 U	98 U	21 U	96 U	20 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	98 U	19 U	99 U	20 U	98 U	11 J FD, Z	98 U	21 U	96 U	20 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	68 J L, Z	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	4.3 J Z	1.8 U	9.2 U	1.9 U	5.1 J Z	1.9 U	--	4.3	8.9 U	1.9 U	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	98 U	19 U	99 U	20 U	98 U	21 U	98 U	21 U	96 U	20 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	9.1 U	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	550 U	540 U	550 U	570 U	540 U	580 U	550 U	590 U	530 U	560 U	570 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	9.1 U	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-110-SA5DN-SS-0.0-0.5	SL-110-SA5DN-SB-4.0-5.0	SL-111-SA5DN-SS-0.0-0.5	SL-111-SA5DN-SB-4.0-5.0	SL-112-SA5DN-SS-0.0-0.5	SL-112-SA5DN-SB-4.0-5.0	SL-113-SA5DN-SS-0.0-0.5	SL-113-SA5DN-SB-4.0-5.0	SL-114-SA5DN-SS-0.0-0.5	SL-114-SA5DN-SB-4.0-5.0	SL-115-SA5DN-SB-4.0-5.0	SL-116-SA5DN-SB-2.0-3.0
Sample Date		05/31/2011	06/23/2011	05/31/2011	06/22/2011	05/31/2011	06/22/2011	05/31/2011	06/21/2011	05/31/2011	06/22/2011	06/22/2011	06/28/2011
SDG		DE169	DE187	DE169	DE186	DE169	DE186	DE169	DE185	DE169	DE186	DE186	DE190
Start Depth		0	4	0	4	0	4	0	4	0	4	4	2
End Depth		0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	5	3
Naphthalene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	9.1 U	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.0 U	1.8 U	9.2 U	1.9 U	9.0 U	1.9 U	9.1 U	2.0 U	8.9 U	1.9 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	370 U	380 U	360 U	390 U	360 U	400 U	360 U	370 U	380 U	360 U
Benzidine	ug/kg	3700 U	3600 U	3700 U	3800 U	3600 U	3900 UJ Q	3600 U	4000 U	3600 U	3700 U	3800 U	3600 UJ Q
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	550 U	540 U	550 U	570 U	540 U	580 U	550 U	590 U	530 U	560 U	570 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	190 U	180 U	200 U	180 U	190 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-117-SA5DN-SS-0.0-0.5	SL-117-SA5DN-SB-4.0-5.0	SL-118-SA5DN-SS-0.0-0.5	SL-118-SA5DN-SB-4.0-5.0	SL-119-SA5DN-SS-0.0-0.5	SL-119-SA5DN-SB-4.0-5.0	SL-120-SA5DN-SS-0.0-0.5	SL-120-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SS-0.0-0.5	SL-121-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SB-8.0-9.0	SL-122-SA5DN-SS-0.0-0.5
Sample Date		05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/21/2011	05/31/2011	06/21/2011	06/21/2011	05/27/2011
SDG		DE167	DE184	DE167	DE184	DE167	DE184	DE167	DE185	DE169	DE185	DE185	DE167
Start Depth		0	4	0	4	0	4	0	4	0	4	8	0
End Depth		0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	9	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	368 U	67	380	58.4	252 J Z	53.2	320 J Z	37.5 U	358 U	18.6 J Z	19.1 J Z	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	8.9 U	1.8 U	1.8 U	9.8 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Nitrobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Hexachlorobutadiene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
4-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
4-Nitrophenol	ug/kg	550 U	560 U	540 U	550 U	550 U	570 U	550 U	560 U	530 U	550 U	530 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
4-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
4-Chloroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Phenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	51 J Z	--	35 J Z	--	38 J Z	--	890	29 J Z	20 J L, Z	24 J Z	--	48 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	--	20 U	--	21 U	--	--	--	--	19 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	--	--	--	200 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	20 U	20 U	20 U	21 U	--	20 U	97 U	20 U	19 U	--
Hexachlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	43 J Z
Anthracene (8270C SIM)	ug/kg	4.5 J Z	1.9 U	1.6 J Z	1.8 U	1.8 U	1.9 U	3.5 J Z	1.9 U	2.7 J Z	1.8 U	1.8 U	--
2,4-Dichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Pyrene (8270C)	ug/kg	--	--	41 J Z	--	--	--	46 J Z	--	40 J L, Z	--	--	590
Pyrene (8270C SIM)	ug/kg	13 J FD	1.9 U	--	1.8 U	3.1	1.9 U	--	1.9 U	--	1.8 U	1.8 U	--
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	--	--	--	200 U
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	20 U	20 U	21 U	--	20 U	97 U	20 U	19 U	--
Dibenzofuran	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	20 J L, Z	--	--	140 J Z
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	7.6 J FD, Z	1.9 U	7.7	1.8 U	1.8 U	1.9 U	7.5 J Z	1.9 U	--	1.8 U	1.8 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	180 J Z
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	3.9 J FD, Z	1.9 U	6.5	1.8 U	1.8 U	1.9 U	3.7 J Z	1.9 U	7.1 J Z	1.8 U	1.8 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	38 J Z	--	--	380
Benzo(b)fluoranthene (8270C SIM)	ug/kg	13 J FD	1.9 U	29	1.8 U	1.8 U	1.9 U	17	1.9 U	--	1.8 U	1.8 U	--
Fluoranthene (8270C)	ug/kg	--	--	40 J Z	--	--	--	48 J Z	--	36 J L, Z	--	--	570
Fluoranthene (8270C SIM)	ug/kg	10 J FD	1.9 U	--	1.8 U	1.8 U	1.9 U	--	1.9 U	--	1.8 U	1.8 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	170 J Z
Benzo(k)fluoranthene (8270C SIM)	ug/kg	6.0 J FD, Z	1.9 U	11	1.8 U	1.8 U	1.9 U	7.7 J Z	1.9 U	16	1.8 U	1.8 U	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	8.9 U	1.8 U	1.8 U	9.8 U
Chrysene (8270C)	ug/kg	130 J Z	--	--	--	--	--	130 J Z	--	--	--	--	360
Chrysene (8270C SIM)	ug/kg	--	0.39 J Z	36	1.8 U	4.8	1.9 U	--	1.9 U	240	1.8 U	2.5	--
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	25 J Z	--	--	--	26 J Z	--	30 J L, Z	--	--	270
Benzo(a)pyrene (8270C SIM)	ug/kg	7.2 J FD, Z	1.9 U	--	1.8 U	1.8 U	1.9 U	--	1.9 U	--	1.8 U	1.8 U	--
2,4-Dinitrophenol	ug/kg	1100 UJ L	1100 U	1100 UJ L	1100 U	1100 UJ L	1100 U	1100 UJ L	1100 U	1100 U	1100 U	1100 U	1200 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	560 U	540 U	550 U	550 U	570 U	550 U	560 U	530 U	550 U	530 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	43 J Z
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.2 UJ FD	1.9 U	2.4	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	3.8 J Z	1.8 U	1.8 U	--
Benzo(a)anthracene (8270C)	ug/kg	--	--	23 J Z	--	--	--	--	--	20 J L, Z	--	--	390
Benzo(a)anthracene (8270C SIM)	ug/kg	6.7 J FD, Z	1.9 U	--	1.8 U	4.2	1.9 U	9.8	1.9 U	--	1.8 U	1.8 U	--
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Aniline	ug/kg	550 U	560 U	540 U	550 U	550 U	570 U	550 U	560 U	530 U	550 U	530 U	590 U
Benzoic Acid	ug/kg	550 U	560 U	540 U	550 U	550 U	570 U	550 U	560 U	530 U	550 U	530 U	590 U
Hexachloroethane	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Hexachlorocyclopentadiene	ug/kg	550 U	560 U	540 U	550 U	550 U	570 U	550 U	560 U	530 U	550 U	530 U	590 U
Isophorone	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	8.9 U	1.8 U	1.8 U	24
Diethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	--	--	--	200 U
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	20 U	20 U	21 U	--	20 U	97 U	20 U	19 U	--
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	66 J Z	--	--	--	--	200 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	20 U	20 U	21 U	--	20 U	97 U	20 U	19 U	--
Phenanthrene (8270C)	ug/kg	--	--	24 J Z	--	--	--	41 J Z	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	4.8 J FD, Z	1.9 U	--	1.8 U	1.8 U	1.9 U	--	1.9 U	21	1.8 U	1.8 U	190
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	20 J L, Z	--	--	200 U
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	20 U	20 U	21 U	--	20 U	97 U	20 U	19 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	8.9 U	1.8 U	1.8 U	13
Carbazole	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	28 J Z
Pentachlorophenol	ug/kg	550 U	560 U	540 U	550 U	550 U	570 U	550 U	560 U	530 U	550 U	530 U	590 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
2-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
2-Nitrophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	8.9 U	1.8 U	1.8 U	9.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-117-SA5DN-SS-0.0-0.5	SL-117-SA5DN-SB-4.0-5.0	SL-118-SA5DN-SS-0.0-0.5	SL-118-SA5DN-SB-4.0-5.0	SL-119-SA5DN-SS-0.0-0.5	SL-119-SA5DN-SB-4.0-5.0	SL-120-SA5DN-SS-0.0-0.5	SL-120-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SS-0.0-0.5	SL-121-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SB-8.0-9.0	SL-122-SA5DN-SS-0.0-0.5
Sample Date		05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/21/2011	05/31/2011	06/21/2011	06/21/2011	05/27/2011
SDG		DE167	DE184	DE167	DE184	DE167	DE184	DE167	DE185	DE169	DE185	DE185	DE167
Start Depth		0	4	0	4	0	4	0	4	0	4	8	0
End Depth		0.5	5	0.5	5	0.5	5	0.5	5	0.5	5	9	0.5
Naphthalene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	8.9 U	1.8 U	1.8 U	9.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	9.0 U	1.9 U	8.9 U	1.8 U	1.8 U	9.8 U
2-Chloronaphthalene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	360 U	360 U	370 U	380 U	370 U	370 U	350 U	370 U	350 U	390 U
Benzidine	ug/kg	3700 R Q	3700 U	3600 U	3600 U	3700 U	3800 U	3700 U	3700 U	3500 U	3700 U	3500 U	3900 U
2-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
2-Chlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
3-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U
Benzyl Alcohol	ug/kg	550 U	560 U	540 U	550 U	550 U	570 U	550 U	560 U	530 U	550 U	530 U	590 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-122-SA5DN-SB-4.0-5.0	SL-123-SA5DN-SS-0.0-0.5	SL-123-SA5DN-SB-2.5-3.5	SL-124-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SB-4.0-5.0	SL-125-SA5DN-SB-9.0-10.0	SL-126-SA5DN-SS-0.0-0.5	SL-127-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SB-4.0-5.0	SL-129-SA5DN-SS-0.0-0.5
Sample Date		06/24/2011	06/01/2011	06/27/2011	06/01/2011	05/31/2011	06/21/2011	06/21/2011	06/01/2011	06/01/2011	06/01/2011	06/29/2011	06/01/2011
SDG		DE188	DE170	DE189	DE170	DE169	DE185	DE185	DE170	DE170	DE170	DE191	DE170
Start Depth		4	0	2.5	0	0	4	9	0	0	0	4	0
End Depth		5	0.5	3.5	0.5	0.5	5	10	0.5	0.5	0.5	5	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	368 U	32.9 J Z	35.3 U	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	560 U	540 U	530 U	540 U	540 U	570 U	530 U	530 U	2500 U	560 U	580 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Phenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	21 J L, Z	--	49 J L, Z	260 J L, Z	--	--	27 J L, Z	160 J L, Z	36 J L, Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	7.5 J Z	--	6.6 J Z	--	--	21 U	19 U	--	--	--	7.2 J Z	160
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	19 U	98 U	21 U	19 U	--	91 U	20 U	21 U	19 U
Hexachlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	3.4	1.8 U	1.8 U	2.1 J Z	1.9 U	1.8 U	1.9 J Z	8.4 U	1.8 U	1.9 U	22
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	28 J L, Z	--	--	--	20 J L, Z	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	41	1.8 U	--	21	1.9 U	1.8 U	--	9.2	1.8 U	1.9 U	630
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	19 U	98 U	21 U	19 U	--	91 U	20 U	21 U	19 U
Dibenzofuran	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	19	1.8 U	1.8 U	6.5 J Z	1.9 U	1.8 U	4.7 J Z	6.0 J Z	1.8 U	1.9 U	170
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	20	1.8 U	1.8 U	5.4 J Z	1.9 U	1.8 U	4.0 J Z	4.3 J Z	1.8 U	1.9 U	180
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	19 J Z	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	84	1.8 U	0.79 J Z	--	1.9 U	1.8 U	11	17	1.8 U	1.9 U	660
Fluoranthene (8270C)	ug/kg	--	--	--	28 J L, Z	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	49	1.8 U	--	24	1.9 U	1.8 U	20	12	1.8 U	1.9 U	760
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	32	1.8 U	0.91 J Z	11	1.9 U	1.8 U	14	5.0 J Z	1.8 U	1.9 U	230
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	1.0 J Z
Chrysene (8270C)	ug/kg	--	--	--	55 J L, Z	47 J L, Z	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	71	1.8 U	--	--	2.5	1.8 U	22	12	0.64 J Z	1.9 U	460
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	22 J L, Z	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	46	1.8 U	1.8 U	--	1.9 U	1.8 U	7.0 J Z	11	1.8 U	1.9 U	400
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 UJ L	1100 U	1100 U	1100 U	1100 U	1100 U	5100 U	1100 U	1200 UJ L	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	540 U	530 UJ L	540 U	540 U	570 U	530 U	530 U	2500 U	560 U	580 UJ L	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	7.7	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	58
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	18 J L, Z	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	45	1.8 U	1.8 U	10	1.9 U	1.8 U	--	5.9 J Z	1.8 U	1.9 U	460
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Aniline	ug/kg	560 U	540 U	530 U	540 U	540 U	570 U	530 U	530 U	2500 U	560 U	580 U	530 U
Benzoic Acid	ug/kg	560 U	540 U	530 U	540 U	540 U	570 U	530 U	530 U	2500 U	560 U	580 U	530 U
Hexachloroethane	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	540 U	530 U	540 U	540 U	570 U	530 U	530 U	2500 U	560 U	580 U	530 U
Isophorone	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	2.8
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	19 U	98 U	21 U	19 U	--	91 U	20 U	21 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	19 U	98 U	21 U	19 U	--	91 U	20 U	21 U	14 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	9	1.8 U	1.8 U	10	1.9 U	1.8 U	11	4.4 J Z	1.8 U	1.9 U	120
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	19 U	98 U	21 U	19 U	--	91 U	20 U	21 U	19 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.1 J Z	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	1.9
Carbazole	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	560 U	540 U	530 U	540 U	540 U	570 U	530 U	530 U	2500 U	560 U	580 U	530 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	0.83 J Z
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-122-SA5DN-SB-4.0-5.0	SL-123-SA5DN-SS-0.0-0.5	SL-123-SA5DN-SB-2.5-3.5	SL-124-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SB-4.0-5.0	SL-125-SA5DN-SB-9.0-10.0	SL-126-SA5DN-SS-0.0-0.5	SL-127-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SS-0.0-0.5	SL-128-SA5DN-SB-4.0-5.0	SL-129-SA5DN-SS-0.0-0.5
Sample Date		06/24/2011	06/01/2011	06/27/2011	06/01/2011	05/31/2011	06/21/2011	06/21/2011	06/01/2011	06/01/2011	06/01/2011	06/29/2011	06/01/2011
SDG		DE188	DE170	DE189	DE170	DE169	DE185	DE185	DE170	DE170	DE170	DE191	DE170
Start Depth		4	0	2.5	0	0	4	9	0	0	0	4	0
End Depth		5	0.5	3.5	0.5	0.5	5	10	0.5	0.5	0.5	5	0.5
Naphthalene (8270C SIM)	ug/kg	1.9 U	0.88 J Z	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	1.4 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	9.1 U	1.9 U	1.8 U	8.9 U	8.4 U	1.8 U	1.9 U	1.0 J Z
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	360 U	360 U	360 U	380 U	350 U	350 U	1700 U	370 U	390 U	350 U
Benzidine	ug/kg	3700 U	3600 U	3600 U	3600 U	3600 U	3800 U	3500 U	3500 U	17000 U	3700 U	3900 U	3500 U
2-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	560 U	540 U	530 U	540 U	540 U	570 U	530 U	530 U	2500 U	560 U	580 U	530 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	840 U	190 U	190 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-129-SA5DN-SB-2.5-3.5	SL-130-SA5DN-SS-0.0-0.5	SL-130-SA5DN-SB-4.0-5.0	SL-131-SA5DN-SS-0.0-0.5	SL-131-SA5DN-SB-3.5-4.5	SL-132-SA5DN-SS-0.0-0.5	SL-132-SA5DN-SB-4.0-5.0	SL-133-SA5DN-SS-0.0-0.5	SL-133-SA5DN-SB-4.0-5.0	SL-134-SA5DN-SS-0.0-0.5	SL-135-SA5DN-SS-0.0-0.5	SL-136-SA5DN-SS-0.0-0.5
Sample Date		06/29/2011	06/01/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011	06/28/2011	06/02/2011	05/25/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DE191	DE170	DE162	DE171	DE190	DE171	DE190	DE171	DE162	DE171	DE171	DE171
Start Depth		2.5	0	4	0	3.5	0	4	0	4	0	0	0
End Depth		3.5	0.5	5	0.5	4.5	0.5	5	0.5	5	0.5	0.5	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	105	24.3 J Z	33.9 U	37.7 U	152	33.7 U	33.8 U B
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.9 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Hexachlorobutadiene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
4-Nitroaniline	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
4-Nitrophenol	ug/kg	530 U	520 U	570 U	510 U	560 U	510 U	560 U	510 U	570 U	510 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
4-Methylphenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
4-Chloroaniline	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Phenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	18 J Z	19 J L, Z	--	--	--	20 J Z	--	23 J Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	20 U	65	7.5 J Z	--	7.3 J Z	--	20 U	24	26	10 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	18 U	20 U	18 U	20 U	19 U	20 U	19 U	18 U	18 U
Hexachlorobenzene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	1.5 J Z	1.9 U	1.6 J Z	1.8 U	64	1.9 U	0.98 J Z	0.46 J Z	1.7 U
2,4-Dichlorophenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	9.8	1.9 U	23	1.8 U	190	1.9 U	5	5.9	4.6
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	18 U	20 U	18 U	20 U	19 U	20 U	19 U	18 U	18 U
Dibenzofuran	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	12	1.9 U	12	1.8 U	20	1.9 U	2	2	1.6 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	12	1.9 U	11	1.8 U	27	1.9 U	1.4 J Z	1.7	1.5 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	13	1.9 U	37	1.8 U	240	1.9 U	4.9	5.1	4.9
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	14	1.9 U	30	1.8 U	250	1.9 U	8.8	6.4	4
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	8.5	1.9 U	14	1.8 U	85	1.9 U	5.6	5.7	4.4
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	0.35 J Z	1.9 U	1.7 U	1.8 U	12	1.9 U	1.7 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	13	1.9 U	27	1.8 U	310	1.9 U	5.8	5.7	5.2
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	7.7	1.9 U	18	1.8 U	56	1.9 U	2.4	3.1	3.2
2,4-Dinitrophenol	ug/kg	1100 UJ L	1000 U	1100 U	1000 U	1100 UJ L	1000 U	1100 UJ L	1000 U	1100 U	1000 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 UJ L	520 U	570 U	510 U	560 UJ L	510 U	560 UJ L	510 U	570 U	510 U	510 U	510 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	3.6	1.9 U	4.1	1.8 U	8.7	1.9 U	1.7 U	1.0 J Z	0.76 J Z
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	6.6	1.9 U	16	1.8 U	130	1.9 U	1.9	2.1	2.6
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Aniline	ug/kg	530 U	520 U	570 U	510 U	560 U	510 U	560 U	510 U	570 U	510 U	510 U	510 U
Benzoic Acid	ug/kg	530 U	520 U	570 U	510 U	560 U	510 U	560 U	510 U	570 U	510 U	510 U	510 U
Hexachloroethane	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	530 U	520 U	570 U	510 U	560 U	510 U	560 U	510 U	570 U	510 U	510 U	510 U
Isophorone	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	170 U	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.7 U	1.8 U	0.74 J Z	1.9 U	1.7 U	1.7 U	1.7 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	18 U	20 U	18 U	20 U	19 U	20 U	19 U	18 U	18 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	18 U	20 U	18 U	20 U	19 U	20 U	19 U	18 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	7.9	1.9 U	6.2	1.8 U	12	1.9 U	2	3.2	1.1 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	18 U	20 U	18 U	20 U	19 U	20 U	9.8 J Z	18 U	18 U
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	0.83 J Z	1.8 U	1.7	1.9 U	1.7 U	1.7 U	1.7 U
Carbazole	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
Pentachlorophenol	ug/kg	530 U	520 U	570 U	510 U	560 U	510 U	560 U	510 U	570 U	510 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
2-Nitroaniline	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
2-Nitrophenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	1.0 J Z	1.9 U	1.7 U	1.8 U	1.7 U	1.9 U	1.7 U	1.7 U	1.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-129-SA5DN-SB-2.5-3.5	SL-130-SA5DN-SS-0.0-0.5	SL-130-SA5DN-SB-4.0-5.0	SL-131-SA5DN-SS-0.0-0.5	SL-131-SA5DN-SB-3.5-4.5	SL-132-SA5DN-SS-0.0-0.5	SL-132-SA5DN-SB-4.0-5.0	SL-133-SA5DN-SS-0.0-0.5	SL-133-SA5DN-SB-4.0-5.0	SL-134-SA5DN-SS-0.0-0.5	SL-135-SA5DN-SS-0.0-0.5	SL-136-SA5DN-SS-0.0-0.5
Sample Date		06/29/2011	06/01/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011	06/28/2011	06/02/2011	05/25/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DE191	DE170	DE162	DE171	DE190	DE171	DE190	DE171	DE162	DE171	DE171	DE171
Start Depth		2.5	0	4	0	3.5	0	4	0	4	0	0	0
End Depth		3.5	0.5	5	0.5	4.5	0.5	5	0.5	5	0.5	0.5	0.5
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	1.5 J Z	1.9 U	1.7 U	1.8 U	0.75 J Z	1.9 U	1.7 U	0.82 J Z	1.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.9 U	1.2 J Z	1.9 U	1.7 U	1.8 U	1.7 U	1.9 U	1.7 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	350 U	380 U	340 U	380 U	340 U	370 U	340 U	380 U	340 U	340 U	340 U
Benzidine	ug/kg	3500 U	3500 U	3800 U	3400 U	3800 U	3400 U	3700 U	3400 U	3800 U	3400 U	3400 U	3400 U
2-Methylphenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
2-Chlorophenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U
3-Nitroaniline	ug/kg	180 U	170 U	190 U	170 U	190 U	--	190 U	170 U	190 U	170 U	170 U	170 U
Benzyl Alcohol	ug/kg	530 U	520 U	570 U	510 U	560 U	510 U	560 U	510 U	570 U	510 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	190 U	170 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-137-SA5DN-SS-0.0-0.5	SL-138-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SB-2.0-3.0	SL-140-SA5DN-SS-0.0-0.5	SL-140-SA5DN-SB-2.0-3.0	SL-141-SA5DN-SS-0.0-0.5	SL-141-SA5DN-SB-4.0-5.0	SL-142-SA5DN-SS-0.0-0.5	SL-142-SA5DN-SB-2.0-3.0	SL-143-SA5DN-SS-0.0-0.5	SL-143-SA5DN-SB-4.0-5.0
Sample Date		06/02/2011	06/02/2011	06/02/2011	05/24/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011
SDG		DE171	DE171	DE171	DE161	DE171	DE162	DE171	DE190	DE171	DE162	DE171	DE190
Start Depth		0	0	0	2	0	2	0	4	0	2	0	4
End Depth		0.5	0.5	0.5	3	0.5	3	0.5	5	0.5	3	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	33.7 U B	337 U	189	37.2 U	1040	35.6 U	354 U	366 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Nitrobenzene	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Hexachlorobutadiene	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
4-Nitroaniline	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
4-Nitrophenol	ug/kg	510 U	510 U	500 U	560 U	500 U	530 U	530 U	550 U	520 U	550 U	520 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
4-Methylphenol	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
4-Chloroaniline	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Phenol	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	20 J Z	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	10 J Z	18 J FD, Z	18 U	--	72	19 U	63	88	180	20 U	700	16 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	18 U	19 U	19 U	20 U	19 U	20 U	13 J Z	6.9 J Z
Hexachlorobenzene	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	2	1.8 U	2.8	7.8	1.0 J Z	1.8 U	1.8	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	40 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.3 J Z	1.7 UJ FD	1.7 U	1.9 U	56	1.8 U	--	48	11	1.8 U	12	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	18 U	19 U	19 U	20 U	19 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	170 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.0 J Z	1.7 UJ FD	1.7 U	1.9 U	15	1.8 U	--	88	4.6	1.8 U	4.3	0.83 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	230	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	1.7 UJ FD	1.7 U	1.9 U	16	1.8 U	--	92	4.7	1.8 U	4.2	0.75 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	81 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.7	1.7 UJ FD	1.7 U	1.9 U	79	1.8 U	--	74	15	1.8 U	20	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	43 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.6 J Z	1.7 UJ FD	1.7 U	1.9 U	68	1.8 U	--	50	13	1.8 U	15	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	24 J Z	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8	1.7 UJ FD	1.7 U	1.9 U	39	1.8 U	--	33	14	1.8 U	31	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	0.50 J Z	1.6 J Z	0.35 J Z	1.8 U	0.48 J Z	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	35 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9	1.7 UJ FD	1.7 U	1.9 U	48	1.8 U	--	41	11	1.8 U	15	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	41 J Z	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.1 J Z	1.7 UJ FD	1.7 U	1.9 U	42	1.8 U	--	42	7.6	1.8 U	9	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1000 U	1100 U	1000 U	1100 U	1100 U	1100 UJ L	1000 U	1100 U	1000 U	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	510 U	510 U	500 U	560 U	500 U	530 U	530 U	550 UJ L	520 U	550 U	520 U	570 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.7 UJ FD	1.7 U	1.9 U	5.9	1.8 U	2.5	13	1.7	1.8 U	2.2	0.90 J Z
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	25 J Z	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.75 J Z	1.7 UJ FD	1.7 U	1.9 U	46	1.8 U	--	30	5.7	1.8 U	6.1	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Aniline	ug/kg	510 U	510 U	500 U	560 U	500 U	530 U	530 U	550 U	520 U	550 U	520 U	570 U
Benzoic Acid	ug/kg	510 U	510 U	500 U	560 U	500 U	530 U	530 U	550 U	520 U	550 U	520 U	570 U
Hexachloroethane	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	510 U	510 U	500 U	560 U	500 U	530 U	530 U	550 U	520 U	550 U	520 U	570 U
Isophorone	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	18 U	19 U	19 U	20 U	19 U	20 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	18 U	19 U	16 J Z	20 U	19 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	48 J Z	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.98 J Z	1.7 UJ FD	1.7 U	1.9 U	10	1.8 U	--	33	5.9	1.8 U	7	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	19 U	18 U	20 U	18 U	19 U	9.3 J Z	20 U	11 J Z	20 U	25	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	0.96 J Z	1.8 U	1.7 U	1.8 U	1.9	1.9 U
Carbazole	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Pentachlorophenol	ug/kg	510 U	510 U	500 U	560 U	500 U	530 U	530 U	550 U	520 U	550 U	520 U	570 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
2-Nitroaniline	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
2-Nitrophenol	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 J Z	1.6 J Z	0.73 J Z	1.8 U	1.1 J Z	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-137-SA5DN-SS-0.0-0.5	SL-138-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SB-2.0-3.0	SL-140-SA5DN-SS-0.0-0.5	SL-140-SA5DN-SB-2.0-3.0	SL-141-SA5DN-SS-0.0-0.5	SL-141-SA5DN-SB-4.0-5.0	SL-142-SA5DN-SS-0.0-0.5	SL-142-SA5DN-SB-2.0-3.0	SL-143-SA5DN-SS-0.0-0.5	SL-143-SA5DN-SB-4.0-5.0
Sample Date		06/02/2011	06/02/2011	06/02/2011	05/24/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011
SDG		DE171	DE171	DE171	DE161	DE171	DE162	DE171	DE190	DE171	DE162	DE171	DE190
Start Depth		0	0	0	2	0	2	0	4	0	2	0	4
End Depth		0.5	0.5	0.5	3	0.5	3	0.5	5	0.5	3	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	1.0 J Z	1.8 U	3.6	3.1	1.4 J Z	1.8 U	2	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.7 U	1.7 U	1.9 U	0.70 J Z	1.8 U	2.7	2.3	0.97 J Z	1.8 U	1.3 J Z	1.9 U
2-Chloronaphthalene	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	340 U	340 U	330 U	370 U	340 U	360 U	350 U	370 U	340 U	370 U	340 U	380 U
Benzidine	ug/kg	3400 U	3400 R Q	3300 U	3700 U	3400 U	3600 U	3500 U	3700 U	3400 U	3700 U	3400 U	3800 U
2-Methylphenol	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
2-Chlorophenol	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 UJ Q	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
3-Nitroaniline	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U
Benzyl Alcohol	ug/kg	510 U	510 U	500 U	560 U	500 U	530 U	530 U	550 U	520 U	550 U	520 U	570 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-144-SA5DN-SS-0.0-0.5	SL-144-SA5DN-SB-2.0-3.0	SL-145-SA5DN-SS-0.0-0.5	SL-145-SA5DN-SB-2.0-3.0	SL-146-SA5DN-SB-2.0-3.0	SL-148-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SB-4.0-5.0	SL-150-SA5DN-SS-0.0-0.5	SL-150-SA5DN-SB-4.0-5.0	SL-151-SA5DN-SS-0.0-0.5	SL-152-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	05/25/2011	06/02/2011	05/24/2011	05/24/2011	06/01/2011	06/02/2011	07/11/2011	06/02/2011	05/24/2011	06/02/2011	06/03/2011
SDG		DE171	DE162	DE171	DE161	DE161	DE170	DE171	DE197	DE171	DE161	DE171	DE173
Start Depth		0	2	0	2	2	0	0	4	0	4	0	0
End Depth		0.5	3	0.5	3	3	0.5	0.5	5	0.5	5	0.5	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	180 UJ Q	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
4-Nitrophenol	ug/kg	520 U	550 U	510 U	530 U	580 U	520 U	530 U	550 U	540 U	540 U	510 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Phenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	93 J Z	--	--	--	30 J Z	--	59 J Z	--	22 J Z	44 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	14 J Z	20 U	--	19 U	21 U	45 J Z	--	8.4 J Z	--	20 U	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	170 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	18 U	20 U	93 U	19 U	21 U	--	19 U	20 U	19 U	20 U	19 U	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.37 J Z	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.0 J Z	1.8 U	0.94 J Z	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	3.6	1.8 U	6.5 J Z	1.8 U	1.9 U	4.8 J Z	1.8 U	1.8 U	16	1.8 U	12	2.1
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	170 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	18 U	20 U	93 U	19 U	21 U	--	19 U	20 U	19 U	20 U	19 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.5 J Z	1.8 U	8.0 J Z	1.8 U	1.9 U	3.7 J Z	1.8 U	1.8 U	4.6	1.8 U	3	4.7
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.1 J Z	1.8 U	3.6 J Z	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	3.6	1.8 U	3	1.6 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.1	1.8 U	10	1.8 U	1.9 U	4.2 J Z	1.8 U	1.8 U	9.6	1.8 U	8.3	3.8
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.8	1.8 U	7.5 J Z	1.8 U	1.9 U	6.3 J Z	1.8 U	1.8 U	7.9	1.8 U	15	1.7 J L, Z
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	9.4	1.8 U	4.2 J Z	1.8 U	1.9 U	3.9 J Z	1.0 J Z	1.8 U	12	1.8 U	6.5	0.81 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	6.2	1.8 U	15	1.8 U	1.9 U	6.0 J Z	0.93 J Z	1.8 U	310	1.8 U	8.5	2.5
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.4	1.8 U	4.4 J Z	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	4.1	1.8 U	5.7	2.4
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1100 U	1200 U	1000 U	1100 U	1100 U	1100 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	550 U	510 U	530 U	580 U	520 U	530 U	550 U	540 U	540 U	510 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.0 J Z	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	3.1	1.8 U	1.2 J Z	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.2 J Z	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	6	0.79 J Z
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Aniline	ug/kg	520 U	550 U	510 U	530 U	580 U	520 U	530 U	550 U	540 U	540 U	510 U	540 U
Benzoic Acid	ug/kg	520 U	550 U	510 U	530 U	580 U	520 U	530 U	550 U	540 U	540 U	510 U	540 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	550 U	510 U	530 U	580 U	520 U	530 U	550 U	540 U	540 U	510 U	540 U
Isophorone	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	170 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	18 U	20 U	93 U	19 U	21 U	--	19 U	20 U	19 U	20 U	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	170 U	--	180 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	18 U	20 U	93 U	19 U	21 U	--	19 U	--	19 U	20 U	19 U	19 UJ L
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.5	1.8 U	3.7 J Z	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	7.1	1.8 U	7.4	1.2 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	170 U	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	18 U	20 U	93 U	19 U	21 U	--	19 U	20 U	9.1 J Z	20 U	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 UJ Q	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.5 J Z	1.8 U	1.7 U	1.8 U
Carbazole	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Pentachlorophenol	ug/kg	520 U	550 U	510 U	530 U	580 U	520 U	530 U	550 U	540 U	540 U	510 U	540 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.3 J Z	1.8 U	1.7 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-144-SA5DN-SS-0.0-0.5	SL-144-SA5DN-SB-2.0-3.0	SL-145-SA5DN-SS-0.0-0.5	SL-145-SA5DN-SB-2.0-3.0	SL-146-SA5DN-SB-2.0-3.0	SL-148-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SS-0.0-0.5	SL-149-SA5DN-SB-4.0-5.0	SL-150-SA5DN-SS-0.0-0.5	SL-150-SA5DN-SB-4.0-5.0	SL-151-SA5DN-SS-0.0-0.5	SL-152-SA5DN-SS-0.0-0.5
Sample Date		06/02/2011	05/25/2011	06/02/2011	05/24/2011	05/24/2011	06/01/2011	06/02/2011	07/11/2011	06/02/2011	05/24/2011	06/02/2011	06/03/2011
SDG		DE171	DE162	DE171	DE161	DE161	DE170	DE171	DE197	DE171	DE161	DE171	DE173
Start Depth		0	2	0	2	2	0	0	4	0	4	0	0
End Depth		0.5	3	0.5	3	3	0.5	0.5	5	0.5	5	0.5	0.5
Naphthalene (8270C SIM)	ug/kg	0.71 J Z	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	2.5	1.8 U	1.4 J Z	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	8.6 U	1.8 U	1.9 U	8.7 U	1.8 U	1.8 U	1.8	1.8 U	0.78 J Z	1.8 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	340 U	350 U	390 U	350 U	350 U	370 U	360 U	360 U	340 U	360 U
Benzidine	ug/kg	3500 U	3700 UJ Q	3400 U	3500 U	3900 U	3500 U	3500 U	3700 U	3600 U	3600 U	3400 U	3600 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U
Benzyl Alcohol	ug/kg	520 U	550 U	510 U	530 U	580 U	520 U	530 U	550 U	540 U	540 U	510 U	540 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-152-SA5DN-SB-2.5-3.5	SL-153-SA5DN-SS-0.0-0.5	SL-153-SA5DN-SB-4.0-5.0	SL-153-SA5DN-SB-7.0-8.0	SL-154-SA5DN-SS-0.0-0.5	SL-154-SA5DN-SB-4.0-5.0	SL-154-SA5DN-SB-9.0-10.0	SL-155-SA5DN-SS-0.0-0.5	SL-155-SA5DN-SB-4.0-5.0	SL-155-SA5DN-SB-9.0-10.0	SL-156-SA5DN-SS-0.0-0.5	SL-156-SA5DN-SB-4.0-5.0
Sample Date		06/29/2011	06/03/2011	08/08/2011	08/08/2011	06/03/2011	06/29/2011	06/29/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011
SDG		DE191	DE173	DE219	DE219	DE173	DE191	DE191	DE173	DE196	DE196	DE173	DE196
Start Depth		2.5	0	4	7	0	4	9	0	4	9	0	4
End Depth		3.5	0.5	5	8	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	550 U	540 U	580 U	570 U	540 U	570 U	580 U	520 U	560 U	580 U	550 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 UJ L	190 UJ L	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	24 J Z	--	--	25 J Z	--	--	23 J Z	--	--	44 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	7.4 J Z	--	21 U	12 J Z	--	6.9 J Z	8.1 J Z	--	9.2 J Z	9.1 J Z	--	8.5 J Z
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	20 U	20 U	20 U	21 U	19 U	21 U	21 U	20 U	21 U
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.6 J Z	1.9 U	1.9 U	1.6 J Z	1.9 U	1.9 U	1.7	1.9 U	2.0 U	2.9	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	20 U	20 U	20 U	21 U	19 U	21 U	21 U	20 U	21 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	0.99 J Z	1.9 U	1.9 U	0.77 J Z	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.2 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	0.90 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	0.90 J Z	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	3.7	1.9 U	1.9 U	3	1.9 U	1.9 U	4.1	1.9 U	2.0 U	4.3	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	2.4 J L	1.9 U	1.9 U	1.9 J L	1.9 U	1.9 U	2.6 J L	1.9 U	2.0 U	4.5 J L	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	0.84 J Z	1.9 U	1.9 U	0.73 J Z	1.9 U	2.0 U	1.1 J Z	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	1.9	1.9 U	1.9 U	2	1.9 U	1.9 U	5.4 J FD	1.9 U	2.0 U	3	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.0 J Z	1.9 U	1.9 U	1.1 J Z	1.9 U	1.9 U	1.1 J Z	1.9 U	2.0 U	1.5 J Z	1.9 U
2,4-Dinitrophenol	ug/kg	1100 UJ L	1100 U	1200 U	1100 U	1100 U	1100 UJ L	1200 UJ L	1000 U	1100 UJ Q	1200 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 UJ L	540 U	580 UJ L	570 UJ L	540 U	570 UJ L	580 UJ L	520 U	560 U	580 U	550 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	0.79 J Z	1.9 U	1.9 U	1.0 J Z	1.9 U	1.9 U	1.7 UJ FD	1.9 U	2.0 U	1.5 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	550 U	540 U	580 U	570 U	540 U	570 U	580 U	520 U	560 U	580 U	550 U	570 U
Benzoic Acid	ug/kg	550 U	540 U	580 UJ L	570 UJ L	540 U	570 U	580 U	520 U	560 U	580 U	550 U	570 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	540 U	580 U	570 U	540 U	570 U	580 U	520 U	560 U	580 U	550 U	570 U
Isophorone	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	20 U	20 U	20 U	21 U	19 U	21 U	21 U	20 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	190 U	--	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 UJ L	21 U	20 U	20 UJ L	20 U	21 U	19 UJ L	--	--	20 UJ L	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	2.1	1.9 U	1.9 U	0.98 J Z	1.9 U	1.9 U	1.6 J Z	1.9 U	2.0 U	3.4	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	20 U	20 U	20 U	21 U	19 U	21 U	21 U	20 U	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.9 U	1.9 U
Carbazole	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	550 U	540 U	580 U	570 U	540 U	570 U	580 U	520 U	560 U	580 U	550 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-152-SA5DN-SB-2.5-3.5	SL-153-SA5DN-SS-0.0-0.5	SL-153-SA5DN-SB-4.0-5.0	SL-153-SA5DN-SB-7.0-8.0	SL-154-SA5DN-SS-0.0-0.5	SL-154-SA5DN-SB-4.0-5.0	SL-154-SA5DN-SB-9.0-10.0	SL-155-SA5DN-SS-0.0-0.5	SL-155-SA5DN-SB-4.0-5.0	SL-155-SA5DN-SB-9.0-10.0	SL-156-SA5DN-SS-0.0-0.5	SL-156-SA5DN-SB-4.0-5.0
Sample Date		06/29/2011	06/03/2011	08/08/2011	08/08/2011	06/03/2011	06/29/2011	06/29/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011
SDG		DE191	DE173	DE219	DE219	DE173	DE191	DE191	DE173	DE196	DE196	DE173	DE196
Start Depth		2.5	0	4	7	0	4	9	0	4	9	0	4
End Depth		3.5	0.5	5	8	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.0 J Z	1.9 U	1.9 U	1.8 U F	1.9 U	1.9 U	0.96 J Z	1.9 U	2.0 U	1.5 J Z	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	2.0 U	1.0 J Z	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	380 U	380 U	360 U	380 U	390 U	350 U	380 U	390 U	370 U	380 U
Benzidine	ug/kg	3700 U	3600 U	3800 U	3800 U	3600 U	3800 U	3900 U	3500 R Q	3800 U	3900 U	3700 U	3800 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 UJ Q	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	550 U	540 U	580 U	570 U	540 U	570 U	580 U	520 U	560 U	580 U	550 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-156-SA5DN-SB-9.0-10.0	SL-157-SA5DN-SS-0.0-0.5	SL-157-SA5DN-SB-4.0-5.0	SL-157-SA5DN-SB-9.0-10.0	SL-158-SA5DN-SS-0.0-0.5	SL-158-SA5DN-SB-4.0-5.0	SL-158-SA5DN-SB-9.0-10.0	SL-159-SA5DN-SS-0.0-0.5	SL-159-SA5DN-SB-4.0-5.0	SL-159-SA5DN-SB-9.0-10.0	SL-160-SA5DN-SS-0.0-0.5	SL-160-SA5DN-SB-4.0-5.0
Sample Date		07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	08/02/2011
SDG		DE196	DE173	DE196	DE196	DE173	DE196	DE196	DE173	DE196	DE196	DE173	DE214
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
4-Nitrophenol	ug/kg	570 U	560 U	570 U	580 U	540 U	560 U	570 U	560 U	580 U	570 U	520 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	61 J Z	--	--	19 J Z	--	--	31 J Z	--	--	350 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	7.7 J Z	--	8.4 J Z	11 J Z	--	8.9 J Z	17 J Z	--	8.9 J Z	16 J Z	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	21 U	19 U	20 U	21 U	20 U	8.8 J Z	9.2 J Z	19 U	20 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.9 U	2.0 U	1.0 J Z	1.9 U	1.9 U	3.4	1.9 U	1.9 U	1.7 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	21 U	19 U	20 U	21 U	20 U	21 U	21 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.2 J Z	1.9 U	1.9 U	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.1 J Z	1.9 U	1.9 U	1.7 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.5	1.9 U	2.0 U	2.6	1.9 U	1.9 U	5.3	1.9 U	1.9 U	1.1 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 J L, Z	1.9 U	2.0 U	1.5 J L, Z	1.9 U	1.9 U	4.4 J L	1.9 U	1.9 U	1.7 UJ L	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.5 J Z	1.9 U	1.9 U	1.7 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.8 J Z	1.9 U	2.0 U	1.5 J Z	1.9 U	1.9 U	3.2	1.9 U	1.9 U	1.1 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	0.76 J Z	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	2.2	1.9 U	1.9 U	1.7 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1200 U	1100 U	1100 U	1100 U	1100 U	1200 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	560 U	570 U	580 U	540 U	560 U	570 U	560 U	580 U	570 U	520 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9	1.9 U	1.9 U	1.7 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Aniline	ug/kg	570 U	560 U	570 U	580 U	540 U	560 U	570 U	560 U	580 U	570 U	520 U	560 U
Benzoic Acid	ug/kg	570 U	560 U	570 U	580 U	540 U	560 U	570 U	560 U	580 U	570 U	520 U	560 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	560 U	570 U	580 U	540 U	560 U	570 U	560 U	580 U	570 U	520 U	560 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	21 U	19 U	20 U	21 U	20 U	21 U	21 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	190 U	190 U	--	190 U	190 U	--	190 U	190 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 UJ L	--	--	19 UJ L	--	--	20 UJ L	--	--	19 UJ L	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	1.9 U	2.0 U	1.4 J Z	1.9 U	1.9 U	2.9	1.9 U	1.9 U	1.7 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	21 U	19 U	20 U	7.3 J Z	20 U	21 U	21 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
Carbazole	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Pentachlorophenol	ug/kg	570 U	560 U	570 U	580 U	540 U	560 U	570 U	560 U	580 U	570 U	520 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-156-SA5DN-SB-9.0-10.0	SL-157-SA5DN-SS-0.0-0.5	SL-157-SA5DN-SB-4.0-5.0	SL-157-SA5DN-SB-9.0-10.0	SL-158-SA5DN-SS-0.0-0.5	SL-158-SA5DN-SB-4.0-5.0	SL-158-SA5DN-SB-9.0-10.0	SL-159-SA5DN-SS-0.0-0.5	SL-159-SA5DN-SB-4.0-5.0	SL-159-SA5DN-SB-9.0-10.0	SL-160-SA5DN-SS-0.0-0.5	SL-160-SA5DN-SB-4.0-5.0
Sample Date		07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	07/08/2011	07/08/2011	06/03/2011	08/02/2011
SDG		DE196	DE173	DE196	DE196	DE173	DE196	DE196	DE173	DE196	DE196	DE173	DE214
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	0.99 J Z	1.9 U	2.0 U	0.97 J Z	1.9 U	1.9 U	1.1 J Z	1.9 U	1.9 U	1.7 U F	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	370 U	380 U	390 U	360 U	370 U	380 U	370 U	380 U	380 U	350 U	380 U
Benzidine	ug/kg	3800 U	3700 U	3800 U	3900 U	3600 U	3700 U	3800 U	3700 U	3800 U	3800 U	3500 U	3800 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U
Benzyl Alcohol	ug/kg	570 U	560 U	570 U	580 U	540 U	560 U	570 U	560 U	580 U	570 U	520 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-162-SA5DN-SS-0.0-0.5	SL-162-SA5DN-SB-4.0-5.0	SL-162-SA5DN-SB-9.0-10.0	SL-164-SA5DN-SS-0.0-0.5	SL-164-SA5DN-SB-4.0-5.0	SL-164-SA5DN-SB-9.0-10.0	SL-165-SA5DN-SS-0.0-0.5	SL-165-SA5DN-SB-4.0-5.0	SL-165-SA5DN-SB-9.0-10.0	SL-166-SA5DN-SS-0.0-0.5	SL-166-SA5DN-SB-4.0-5.0	SL-166-SA5DN-SB-9.0-10.0
Sample Date		06/03/2011	08/02/2011	08/02/2011	05/26/2011	07/07/2011	07/07/2011	05/26/2011	06/29/2011	06/29/2011	06/03/2011	07/07/2011	07/07/2011
SDG		DE173	DE214	DE214	DE166	DE195	DE195	DE166	DE191	DE191	DE173	DE195	DE195
Start Depth		0	4	9	0	4	9	0	4	9	0	4	9
End Depth		0.5	5	10	0.5	5	10	0.5	5	10	0.5	5	10
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.1	1.9 U	1.8 U	1.9 U	1.9 U	9.0 U	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
4-Nitrophenol	ug/kg	560 U	560 U	580 U	550 U	570 U	570 U	540 U	560 U	5300 U	550 U	570 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Phenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	24 J Z	--	--	--	--	--	24 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	16 J Z	19 J Z	--	21 U B	21 U B	64 J Z	7.5 J Z	19 U	--	21 U B	21 U B
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	7.5 J Z	21 U	20 U	21 U	21 U	--	20 U	19 U	20 U	21 U	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	8.8	1.9 U	1.8 U	1.9 U	1.9 U	2.5 J Z	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	9.8	1.9 U	1.8	1.9 U	1.9 U	43	1.9 U	2.3	1.6 J Z	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	9.8 J Z	21 U	20 U	21 U	21 U	--	20 U	19 U	20 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	5.9	1.9 U	1.1 J Z	1.9 U	1.9 U	22	1.9 U	1.3 J Z	0.86 J Z	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	5.9	1.9 U	1.1 J Z	1.9 U	1.9 U	15	1.9 U	1.1 J Z	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.2 J Z	7.1	1.9 U	1.6 J Z	1.9 U	1.9 U	43	1.9 U	2.3	3.7	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 UJ L	10	1.9 U	1.8	1.9 U	1.9 U	46	1.9 U	2.3	2.3 J L	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	6.2	1.9 U	1.8 U	1.9 U	1.9 U	15	1.9 U	0.95 J Z	0.92 J Z	1.9 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	2.9	1.9 U	1.8 U	1.9 U	1.9 U	9.0 U	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	8.5	1.9 U	1.8	1.9 U	1.9 U	32	1.9 U	1.5 J Z	2.7	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	5.9	1.9 U	0.83 J Z	1.9 U	1.9 U	28	1.9 U	1.8	1.1 J Z	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1200 U	1100 U	1100 UJ L	1100 UJ L	1100 U	1100 UJ L	11000 UJ L	1100 U	1100 UJ L	1200 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	560 U	580 U	550 U	570 U	570 U	540 U	560 UJ L	5300 UJ L	550 U	570 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	5.7	1.9 U	1.8 U	1.9 U	1.9 U	5.8 J Z	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	7.8	1.9 U	0.77 J Z	1.9 U	1.9 U	20	1.9 U	1.3 J Z	1.9 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Aniline	ug/kg	560 U	560 U	580 U	550 U	570 U	570 U	540 U	560 U	5300 U	550 U	570 U	580 U
Benzoic Acid	ug/kg	560 U	560 U	580 U	550 U	570 U	570 U	540 U	560 U	5300 U	550 U	570 U	580 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	560 U	580 U	550 U	570 U	570 U	540 U	560 U	5300 U	550 U	570 U	580 U
Isophorone	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	3.2	1.9 U	1.8 U	1.9 U	1.9 U	9.0 U	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	12 J Z	21 U	20 U	21 U	21 U	--	20 U	19 U	20 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	190 U	190 U	180 U	--	--	--	190 U	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 UJ L	14 J Z	21 U	20 U	--	--	--	20 U	19 U	20 UJ L	--	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	14	1.9 U	1.2 J Z	1.9 U	1.9 U	14	1.9 U	1.1 J Z	1.6 J Z	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	11 J Z	21 U	6.9 J Z	21 U	21 U	--	20 U	19 U	20 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	8.8	1.9 U	1.8 U	1.9 U	1.9 U	9.0 U	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Pentachlorophenol	ug/kg	560 U	560 U	580 U	550 U	570 U	570 U	540 U	560 U	5300 U	550 U	570 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.5 J Z	1.9 U	1.8 U	1.9 U	1.9 U	9.0 U	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-162-SA5DN-SS-0.0-0.5	SL-162-SA5DN-SB-4.0-5.0	SL-162-SA5DN-SB-9.0-10.0	SL-164-SA5DN-SS-0.0-0.5	SL-164-SA5DN-SB-4.0-5.0	SL-164-SA5DN-SB-9.0-10.0	SL-165-SA5DN-SS-0.0-0.5	SL-165-SA5DN-SB-4.0-5.0	SL-165-SA5DN-SB-9.0-10.0	SL-166-SA5DN-SS-0.0-0.5	SL-166-SA5DN-SB-4.0-5.0	SL-166-SA5DN-SB-9.0-10.0
	Sample Date	06/03/2011	08/02/2011	08/02/2011	05/26/2011	07/07/2011	07/07/2011	05/26/2011	06/29/2011	06/29/2011	06/03/2011	07/07/2011	07/07/2011
	SDG	DE173	DE214	DE214	DE166	DE195	DE195	DE166	DE191	DE191	DE173	DE195	DE195
	Start Depth	0	4	9	0	4	9	0	4	9	0	4	9
	End Depth	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5	10
Naphthalene (8270C SIM)	ug/kg	1.9 U	3.5	1.9 U	1.8 U	1.9 U	1.9 U	9.0 U	1.9 U	1.7 U	1.4 J Z	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 J Z	1.9 U	1.8 U	1.9 U	1.9 U	9.0 U	1.9 U	1.7 U	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	380 U	370 U	380 U	380 U	360 U	380 U	3500 U	370 U	380 U	390 U
Benzidine	ug/kg	3700 U	3700 U	3800 U	3700 U	3800 U	3800 U	3600 U	3800 U	35000 U	3700 U	3800 U	3900 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U
Benzyl Alcohol	ug/kg	560 U	560 U	580 U	550 U	570 U	570 U	540 U	560 U	5300 U	550 U	570 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	1800 U	180 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-167-SA5DN-SB-4.0-5.0	SL-167-SA5DN-SB-9.0-10.0	SL-168-SA5DN-SB-4.0-5.0	SL-168-SA5DN-SB-9.0-10.0	SL-169-SA5DN-SB-4.0-5.0	SL-169-SA5DN-SB-7.5-8.5	SL-170-SA5DN-SS-0.0-0.5	SL-170-SA5DN-SB-4.0-5.0	SL-170-SA5DN-SB-9.0-10.0	SL-171-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SB-4.0-5.0
Sample Date		07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	05/26/2011	07/28/2011
SDG		DE195	DE195	DE195	DE195	DE195	DE195	DE166	DE213	DE213	DE166	DE166	DE211
Start Depth		4	9	4	9	4	7.5	0	4	9	0	0	4
End Depth		5	10	5	10	5	8.5	0.5	5	10	0.5	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	355 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	1.8 U	1.9 U	8.9 U	9.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	580 U	570 U	590 U	570 U	600 U	570 U	510 U	550 U	580 U	530 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Phenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	390 U	--	--	--	--	380 U	18 J Z	42 J Z	--	31 J Z	28 J Z	28 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U B	21 U B	21 U B	21 U B	--	--	--	25	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U	--	--	180 U	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	20 U	--	20 U	21 U	--	--	20 U
Hexachlorobenzene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	19	1.9 U	8.9 U	9.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	44 J Z	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	0.88 J Z	2.0 U	1.9 U	8.6 U	130	1.9 U	--	7.1 J Z	2.4
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U	--	--	180 U	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	20 U	--	20 U	21 U	--	--	20 U
Dibenzofuran	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	25 J Z	--	23 J Z	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	--	1.9 U	--	9.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	20 J Z	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	--	1.9 U	8.9 U	9.0 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	39 J Z	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	0.88 J Z	2.0 U	1.9 U	8.6 U	89	1.1 J Z	--	4.9 J Z	1.4 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	43 J Z	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	0.87 J Z	2.0 U	1.9 U	8.6 U	140	1.9 U	--	4.9 J Z	3.0
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	24 J Z	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	40	1.9 U	--	9.0 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	1.8 U	1.9 U	8.9 U	9.0 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	40 J Z	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	0.76 J Z	2.0 U	1.9 U	8.6 U	74	0.75 J Z	--	4.7 J Z	1.7 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	31 J Z	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	62	1.9 U	--	9.0 U	0.83 J Z
2,4-Dinitrophenol	ug/kg	1200 UJ L	1100 UJ L	1200 UJ L	1100 UJ L	1200 UJ L	1100 UJ L	1000 U	1100 U	1200 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	570 U	590 U	570 U	600 U	570 U	510 U	550 U	580 U	530 U	540 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	5.7	1.9 U	8.9 U	9.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	35 J Z	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	67	1.9 U	--	3.7 J Z	0.80 J Z
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Aniline	ug/kg	580 U	570 U	590 U	570 U	600 U	570 U	510 U	550 U	580 U	530 U	540 U	560 U
Benzoic Acid	ug/kg	580 U	570 U	590 U	570 U	600 U	570 U	510 U	550 U	580 U	530 U	540 U	560 U
Hexachloroethane	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	570 U	590 U	570 U	600 U	570 U	510 U	550 U	580 U	530 U	540 U	560 U
Isophorone	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	1.8 U	1.9 U	8.9 U	9.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U	--	--	180 U	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	20 U	--	20 U	21 U	--	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	--	--	180 U	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	--	--	--	--	--	20 U	21 U	--	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	0.92 J Z	2.0 U	1.9 U	8.6 U	75	1.9 U	8.9 U	9.0 U	1.7 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	170 U	--	--	180 U	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	20 U	--	20 U	21 U	--	--	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	4.4	1.9 U	8.9 U	9.0 U	1.9 U
Carbazole	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	580 U	570 U	590 U	570 U	600 U	570 U	510 U	550 U	580 U	530 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	1.8 U	1.9 U	8.9 U	9.0 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-167-SA5DN-SB-4.0-5.0	SL-167-SA5DN-SB-9.0-10.0	SL-168-SA5DN-SB-4.0-5.0	SL-168-SA5DN-SB-9.0-10.0	SL-169-SA5DN-SB-4.0-5.0	SL-169-SA5DN-SB-7.5-8.5	SL-170-SA5DN-SS-0.0-0.5	SL-170-SA5DN-SB-4.0-5.0	SL-170-SA5DN-SB-9.0-10.0	SL-171-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SS-0.0-0.5	SL-172-SA5DN-SB-4.0-5.0
Sample Date		07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	07/07/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	05/26/2011	07/28/2011
SDG		DE195	DE195	DE195	DE195	DE195	DE195	DE166	DE213	DE213	DE166	DE166	DE211
Start Depth		4	9	4	9	4	7.5	0	4	9	0	0	4
End Depth		5	10	5	10	5	8.5	0.5	5	10	0.5	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	0.81 J Z	1.9 U	8.9 U	9.0 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	1.9 U	8.6 U	1.8 U	1.9 U	8.9 U	9.0 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	380 U	390 U	380 U	400 U	380 U	340 U	370 U	390 U	350 U	360 U	370 U
Benzidine	ug/kg	3900 U	3800 U	3900 U	3800 U	4000 U	3800 U	3400 U	3700 U	3900 U	3500 U	3600 U	3700 U
2-Methylphenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	580 U	570 U	590 U	570 U	600 U	570 U	510 U	550 U	580 U	530 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	200 U	190 U	200 U	190 U	170 U	180 U	190 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-172-SA5DN-SB-9.0-10.0	SL-173-SA5DN-SS-0.0-0.5	SL-173-SA5DN-SB-4.0-5.0	SL-173-SA5DN-SB-9.0-10.0	SL-174-SA5DN-SS-0.0-0.5	SL-174-SA5DN-SB-4.0-5.0	SL-174-SA5DN-SB-9.0-10.0	SL-175-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SB-4.0-5.0	SL-175-SA5DN-SB-9.0-10.0	SL-176-SA5DN-SS-0.0-0.5	SL-176-SA5DN-SB-4.0-5.0
Sample Date		07/28/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	07/29/2011	07/29/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	08/01/2011
SDG		DE211	DE166	DE213	DE213	DE166	DE212	DE212	DE166	DE213	DE213	DE166	DE213
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	358 U	370 J FD	38.3 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	8.8 U	1.9 U	1.9 U	8.7 U	9.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Nitrobenzene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 UJ Q	190 U	170 U	180 U
Hexachlorobutadiene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
4-Nitroaniline	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
4-Nitrophenol	ug/kg	590 U	530 U	580 U	570 U	520 U	580 U	580 U	540 U	550 U	570 U	520 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
4-Methylphenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
4-Chloroaniline	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Phenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	26 J Z	--	--	20 J Z	--	--	34 J Z	--	--	22 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	15 J Z	--	8.8 J Z	13 J Z	--	56 J Z	13 J Z	--	13 J Z	10 J Z	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	--	170 U	190 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	--	21 U	19 U	20 U	21 U	19 U	20 U
Hexachlorobenzene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	4.3	2.9 J Z	1.9 U	1.9 U	8.7 U	30	0.39 J Z	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	55 J Z	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	9.5	--	1.9 U	1.9 U	8.7 U	160	0.91 J Z	2	0.87 J Z	1.9 U	2.1	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	--	170 U	190 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	--	21 U	19 U	20 U	21 U	19 U	20 U
Dibenzofuran	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	21 J Z	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.8	--	1.9 U	1.9 U	8.7 U	20	1.9 U	0.88 J Z	1.4 J FD, Z	1.9 U	1.7 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	3.2	7.9 J Z	1.9 U	1.9 U	8.7 U	5.7 J Z	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	34 J Z	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	8.3	--	0.84 J Z	1.9 U	8.7 U	20	1.9 U	2	2	1.9 U	1.5 J Z	1.9
Fluoranthene (8270C)	ug/kg	--	69 J Z	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	10	--	1.9 U	1.9 U	8.7 U	24	1.9 U	2.2	0.86 J Z	1.9 U	2.3	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	6	7.4 J Z	1.9 U	1.9 U	8.7 U	9.7 U	1.9 U	0.79 J Z	1.8 U	1.9 U	1.7 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2.0 U	8.8 U	1.9 U	1.9 U	8.7 U	7.0 J Z	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	35 J Z	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	7.8	--	0.78 J Z	1.9 U	1.8 J Z	64	0.42 J Z	1.4 J Z	1.0 J FD, Z	1.9 U	1.4 J Z	2.1
bis(2-Chloroisopropyl) ether	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	23 J Z	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	6.4	--	1.9 U	1.9 U	8.7 U	35	1.9 U	0.83 J Z	0.83 J FD, Z	1.9 U	0.87 J Z	1.8 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1200 U	1100 U	1000 U	1200 U	1200 U	1100 U	1100 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	530 U	580 U	570 U	520 U	580 U	580 U	540 U	550 U	570 U	520 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.9	4.3 J Z	1.9 U	1.9 U	8.7 U	6.4 J Z	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	31 J Z	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	7.4	--	1.9 U	1.9 U	8.7 U	41	1.9 U	0.79 J Z	1.8 U	1.9 U	0.97 J Z	1.8 U
4-Chloro-3-Methylphenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Aniline	ug/kg	590 U	530 U	580 U	570 U	520 U	580 U	580 U	540 U	550 U	570 U	520 U	550 U
Benzoic Acid	ug/kg	590 U	530 U	580 U	570 U	520 U	580 U	580 U	540 U	550 U	570 U	520 U	550 U
Hexachloroethane	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	590 U	530 U	580 U	570 U	520 U	580 U	580 U	540 U	550 U	570 U	520 U	550 U
Isophorone	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	8.8 U	1.9 U	1.9 U	8.7 U	9.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	--	170 U	190 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	--	21 U	19 U	20 U	21 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	--	170 U	190 U	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	8.3 J Z	--	21 U	21 U	--	--	13 J Z	19 U	20 U	21 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	45 J Z	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	6.4	--	1.9 U	1.9 U	8.7 U	110	0.85 J Z	1.2 J Z	1.5 J FD, Z	1.9 U	1.5 J Z	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	--	170 U	190 U	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	--	7.9 J L, Z	19 U	20 U	21 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 J Z	8.8 U	1.9 U	1.9 U	8.7 U	30	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U
Carbazole	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Pentachlorophenol	ug/kg	590 U	530 U	580 U	570 U	520 U	580 U	580 U	540 U	550 U	570 U	520 U	550 U
2,4,6-Trichlorophenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
2-Nitroaniline	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
2-Nitrophenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	8.8 U	1.9 U	1.9 U	8.7 U	48	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	2.5
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-172-SA5DN-SB-9.0-10.0	SL-173-SA5DN-SS-0.0-0.5	SL-173-SA5DN-SB-4.0-5.0	SL-173-SA5DN-SB-9.0-10.0	SL-174-SA5DN-SS-0.0-0.5	SL-174-SA5DN-SB-4.0-5.0	SL-174-SA5DN-SB-9.0-10.0	SL-175-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SB-4.0-5.0	SL-175-SA5DN-SB-9.0-10.0	SL-176-SA5DN-SS-0.0-0.5	SL-176-SA5DN-SB-4.0-5.0
Sample Date		07/28/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	07/29/2011	07/29/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	08/01/2011
SDG		DE211	DE166	DE213	DE213	DE166	DE212	DE212	DE166	DE213	DE213	DE166	DE213
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	2.0 U	8.8 U	1.9 U	1.9 U	8.7 U	9.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.4 J Z
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	8.8 U	1.9 U	1.9 U	8.7 U	61	1.9 U	1.8 U	0.81 J Z	1.9 U	1.7 U	3.8
2-Chloronaphthalene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	390 U	350 U	380 U	380 U	350 U	390 U	380 U	360 U	370 U	380 U	350 U	370 U
Benzidine	ug/kg	3900 U	3500 U	3800 U	3800 U	3500 U	3900 U	3800 U	3600 U	3700 UJ Q	3800 U	3500 U	3700 U
2-Methylphenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
2-Chlorophenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
3-Nitroaniline	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U
Benzyl Alcohol	ug/kg	590 U	530 U	580 U	570 U	520 U	580 U	580 U	540 U	550 U	570 U	520 U	550 U
2,6-Dinitrotoluene	ug/kg	200 U	180 U	190 U	190 U	170 U	190 U	190 U	180 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-176-SA5DN-SB-9.0-10.0	SL-179-SA5DN-SS-0.0-0.5	SL-179-SA5DN-SB-4.0-5.0	SL-179-SA5DN-SB-9.0-10.0	SL-180-SA5DN-SS-0.0-0.5	SL-180-SA5DN-SB-4.0-5.0	SL-180-SA5DN-SB-9.0-10.0	SL-181-SA5DN-SS-0.0-0.5	SL-181-SA5DN-SB-4.0-5.0	SL-181-SA5DN-SB-9.0-10.0	SL-182-SA5DN-SS-0.0-0.5	SL-182-SA5DN-SB-4.0-5.0
Sample Date		08/01/2011	05/26/2011	07/27/2011	07/27/2011	05/26/2011	07/29/2011	07/29/2011	05/26/2011	06/30/2011	06/30/2011	05/26/2011	06/30/2011
SDG		DE213	DE166	DE210	DE210	DE166	DE212	DE212	DE166	DE192	DE192	DE166	DE192
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	349 U	345 U	379 U	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.7 U	8.6 U	1.9 U	8.7 U	1.9 U	10 U	8.8 U	1.8 U	2.0 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
4-Nitrophenol	ug/kg	570 U	520 U	520 U	570 U	520 U	570 U	600 U	530 U	560 U	600 U	530 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Phenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	29 J Z	27 J Z	--	28 J Z	59 J Z	--	22 J Z	--	--	25 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	8.2 J Z	--	--	15 J Z	--	--	39 J Z	--	20 U B	21 U B	--	20 U B
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	170 U	--	170 U	--	200 U	180 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	19 U	--	21 U	--	21 U	--	--	20 U	21 U	19 U	20 U
Hexachlorobenzene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	62 J Z	--	--	590	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	--	8.6 U	3	--	1.3 J Z	10 U	17	1.8 U	2.0 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	340	--	--	2800	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	--	5.5 J Z	3.5	--	3.4	10 U	180	1.8 U	2.7	0.96 J Z	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	170 U	--	170 U	--	200 U	180 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	19 U	--	21 U	--	21 U	--	--	20 U	21 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	170 U	170 U	190 U	150 J Z	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	100 J Z	--	--	550	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	--	8.6 U	1.8 J Z	--	2	10 U	27	1.8 U	2.0 U	0.80 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	94 J Z	--	--	520	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	--	8.6 U	2	--	1.6 J Z	10 U	32	1.8 U	2.0 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	170	--	--	1100	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.83 J Z	--	4.6 J Z	3.4	--	2.7	10 U	130	1.8 U	1.5 J Z	1.2 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	--	360	--	--	3100	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	--	5.3 J Z	4.5	--	3.4	10 U	170	1.8 U	2.2	0.89 J Z	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	100 J Z	--	--	600	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	--	8.6 U	3.1	--	2.1	10 U	62	1.8 U	2.0 U	1.8 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.7 U	8.6 U	1.9 U	8.7 U	1.9 U	10 U	8.8 U	1.8 U	2.0 U	1.8 U	1.9 U
Chrysene (8270C)	ug/kg	--	200	--	--	1400	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.47 J Z	--	4.9 J Z	4	--	2.8	10 U	110	1.8 U	1.6 J Z	0.80 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	160 J Z	--	--	950	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	--	8.6 U	3.1	--	2.2	10 U	85	1.8 U	1.1 J Z	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1000 U	1100 U	1000 U	1100 U	1200 U	1100 U	1100 U	1200 U	1100 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	520 U	520 U	570 U	520 U	570 U	600 U	530 U	560 U	600 U	530 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	32 J Z	--	--	170	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	--	8.6 U	2.1	--	1.2 J Z	10 U	11	1.8 U	2.0 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	180	--	--	1300	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	--	3.5 J Z	4.1	--	2.8	10 U	86	1.8 U	1.3 J Z	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Aniline	ug/kg	570 U	520 U	520 U	570 U	520 U	570 U	600 U	530 U	560 U	600 U	530 U	580 U
Benzoic Acid	ug/kg	570 U	520 U	520 U	570 U	520 U	570 U	600 U	530 U	560 U	600 U	530 U	580 U
Hexachloroethane	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	520 U	520 U	570 U	520 U	570 U	600 U	530 U	560 U	600 U	530 U	580 U
Isophorone	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	370	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.7 U	8.6 U	1.9 U	--	1.9 U	10 U	8.8 U	1.8 U	2.0 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	170 U	--	170 U	--	200 U	180 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	19 U	--	21 U	--	21 U	--	--	20 U	21 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	170 U	--	170 U	--	--	180 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	19 U	--	21 U	--	15 J Z	56 J Z	--	20 U	21 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	240	--	--	2900	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	--	8.6 U	3	--	2	10 U	90	1.8 U	1.7 J Z	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	170 U	--	170 U	--	200 U	180 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	19 U	--	21 U	--	10 J L, Z	--	--	20 U	21 U	6.9 J Z	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	260	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.7 U	8.6 U	1.1 J Z	--	1.9 U	10 U	8.8 U	1.8 U	2.0 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	27 J Z	170 U	190 U	360	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Pentachlorophenol	ug/kg	570 U	520 U	520 U	570 U	520 U	570 U	600 U	530 U	560 U	600 U	530 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	26 J Z	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	8.6 U	1.9 U	--	1.9 U	10 U	8.8 U	1.8 U	2.0 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	37 J Z	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-176-SA5DN-SB-9.0-10.0	SL-179-SA5DN-SS-0.0-0.5	SL-179-SA5DN-SB-4.0-5.0	SL-179-SA5DN-SB-9.0-10.0	SL-180-SA5DN-SS-0.0-0.5	SL-180-SA5DN-SB-4.0-5.0	SL-180-SA5DN-SB-9.0-10.0	SL-181-SA5DN-SS-0.0-0.5	SL-181-SA5DN-SB-4.0-5.0	SL-181-SA5DN-SB-9.0-10.0	SL-182-SA5DN-SS-0.0-0.5	SL-182-SA5DN-SB-4.0-5.0
Sample Date		08/01/2011	05/26/2011	07/27/2011	07/27/2011	05/26/2011	07/29/2011	07/29/2011	05/26/2011	06/30/2011	06/30/2011	05/26/2011	06/30/2011
SDG		DE213	DE166	DE210	DE210	DE166	DE212	DE212	DE166	DE192	DE192	DE166	DE192
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	8.6 U	1.9 U	--	1.9 U	10 U	8.8 U	1.8 U	2.0 U	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	31 J Z	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	8.6 U	1.9 U	--	1.9 U	10 U	8.8 U	1.8 U	2.0 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	350 U	350 U	380 U	350 U	380 U	400 U	350 U	380 U	400 U	350 U	380 U
Benzidine	ug/kg	3800 U	3500 U	3500 U	3800 U	3500 U	3800 U	4000 U	3500 U	3800 U	4000 U	3500 U	3800 U
2-Methylphenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U
Benzyl Alcohol	ug/kg	570 U	520 U	520 U	570 U	520 U	570 U	600 U	530 U	560 U	600 U	530 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	170 U	170 U	190 U	170 U	190 U	200 U	180 U	190 U	200 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-182-SA5DN-SB-9.0-10.0	SL-183-SA5DN-SS-0.0-0.5	SL-183-SA5DN-SB-4.0-5.0	SL-183-SA5DN-SB-9.0-10.0	SL-184-SA5DN-SS-0.0-0.5	SL-184-SA5DN-SB-4.0-5.0	SL-184-SA5DN-SB-9.0-10.0	SL-185-SA5DN-SS-0.0-0.5	SL-185-SA5DN-SB-4.0-5.0	SL-185-SA5DN-SB-9.0-10.0	SL-186-SA5DN-SS-0.0-0.5	SL-186-SA5DN-SB-4.0-5.0
Sample Date		06/30/2011	05/26/2011	07/28/2011	07/28/2011	05/26/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011	08/04/2011	05/24/2011	07/05/2011
SDG		DE192	DE166	DE211	DE211	DE166	DE192	DE192	DE163	DE216	DE216	DE160	DE193
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	380 U	38.7 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 UJ Q
1,2,4-Trichlorobenzene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 UJ Q
Hexachlorobutadiene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 UJ Q
4-Nitroaniline	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	600 U	510 U	560 U	570 U	530 U	570 U	580 U	550 U	570 U	570 U	570 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	170 U	190 R Q	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	38 J Z	--	34 J Z	24 J Z	380 U	--	370 UJ B, L	--	--	55 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U B	--	20 U	--	--	--	21 U B	--	21 U	12 J Z	--	21 U B
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	180 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	18 U	20 U	21 U	--	20 U	21 U	--	21 U	21 U	21 U	7.5 J Z
Hexachlorobenzene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.6 J Z	2.2	1.9 U
2,4-Dichlorophenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.0 U	0.92 J Z	1.9 U	1.9 U	4.4 J Z	1.9 U	1.9 U	3.9 J Z	1.9 U	1.2 J Z	18	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	180 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	18 U	20 U	21 U	--	20 U	21 U	--	21 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.0 U	0.81 J Z	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	0.95 J Z	13	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	0.81 J Z	7.9	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 U	1.5 J Z	1.9 U	1.9 U	4.4 J Z	1.9 U	1.9 U	4.8 J L, Z	1.9 U	0.97 J Z	16 J L	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	3.8 J Z	1.9 U	1.9 U	3.9 J Z	1.9 U	1.3 J Z	21	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	0.83 J Z	7.8	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	0.53 J Z	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	38 J Z	--
Chrysene (8270C SIM)	ug/kg	2.0 U	1.0 J Z	1.9 UJ FD	0.44 J Z	3.3 J Z	1.9 U	1.9 U	2.8 J Z	1.9 U	1.0 J Z	--	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.0 U	0.87 J Z	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	0.85 J Z	14	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1000 U	1100 U	1100 U	1100 U	1100 U	1200 U	1100 U	1100 U	1100 U	1100 U	1200 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	600 U	510 U	560 U	570 U	530 U	570 U	580 U	550 U	570 U	570 U	570 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	0.77 J Z	2.2	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.2 J Z	9.9	1.9 U
4-Chloro-3-Methylphenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	600 U	510 U	560 U	570 U	530 U	570 U	580 U	550 U	570 U	570 U	570 U	580 U
Benzoic Acid	ug/kg	600 U	510 U	560 U	570 U	530 U	570 U	580 U	550 U	570 U	570 U	570 U	580 U
Hexachloroethane	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 UJ Q
4-Chlorophenyl Phenylether	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	600 U	510 U	560 U	570 U	530 U	570 U	580 U	550 U	570 U	570 U	570 U	580 U
Isophorone	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	0.82 J Z	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	180 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	18 U	20 U	21 U	--	20 U	21 U	--	21 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	180 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	18 U	20 U	21 U	--	20 U	21 U	--	21 U	12 J Z	11 J L, Z	9.4 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.0 U	0.82 J Z	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.8 J Z	9.6	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	180 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	18 U	20 U	21 U	--	20 U	21 U	--	21 U	8.5 J L, Z	11 J Z	21 U
N-Nitrosodiphenylamine	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.3 J Z	1.3 J Z	1.9 U
Carbazole	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	600 U	510 U	560 U	570 U	530 U	570 U	580 U	550 U	570 U	570 U	570 U	580 U
2,4,6-Trichlorophenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	0.80 J Z	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-182-SA5DN-SB-9.0-10.0	SL-183-SA5DN-SS-0.0-0.5	SL-183-SA5DN-SB-4.0-5.0	SL-183-SA5DN-SB-9.0-10.0	SL-184-SA5DN-SS-0.0-0.5	SL-184-SA5DN-SB-4.0-5.0	SL-184-SA5DN-SB-9.0-10.0	SL-185-SA5DN-SS-0.0-0.5	SL-185-SA5DN-SB-4.0-5.0	SL-185-SA5DN-SB-9.0-10.0	SL-186-SA5DN-SS-0.0-0.5	SL-186-SA5DN-SB-4.0-5.0
Sample Date		06/30/2011	05/26/2011	07/28/2011	07/28/2011	05/26/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011	08/04/2011	05/24/2011	07/05/2011
SDG		DE192	DE166	DE211	DE211	DE166	DE192	DE192	DE163	DE216	DE216	DE160	DE193
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	1.6 J Z	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.7 U	1.9 U	1.9 U	8.8 U	1.9 U	1.9 U	9.2 U	1.9 U	1.9 U	1.4 J Z	1.9 U
2-Chloronaphthalene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	400 U	340 U	370 U	380 U	350 U	380 U	390 U	370 U	380 U	380 U	380 U	390 U
Benzidine	ug/kg	4000 U	3400 U	3700 UJ Q	3800 U	3500 U	3800 U	3900 U	3700 U	3800 U	3800 U	3800 U	3900 U
2-Methylphenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	600 U	510 U	560 U	570 U	530 U	570 U	580 U	550 U	570 U	570 U	570 U	580 U
2,6-Dinitrotoluene	ug/kg	200 U	170 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-186-SA5DN-SB-9.0-10.0	SL-187-SA5DN-SS-0.0-0.5	SL-187-SA5DN-SB-4.0-5.0	SL-187-SA5DN-SB-9.0-10.0	SL-188-SA5DN-SS-0.0-0.5	SL-188-SA5DN-SB-4.0-5.0	SL-188-SA5DN-SB-9.0-10.0	SL-189-SA5DN-SS-0.0-0.5	SL-189-SA5DN-SB-4.0-5.0	SL-189-SA5DN-SB-9.0-10.0	SL-190-SA5DN-SS-0.0-0.5	SL-190-SA5DN-SB-4.0-5.0
Sample Date		07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/03/2011	08/03/2011	05/24/2011	08/04/2011	08/04/2011	05/25/2011	07/06/2011
SDG		DE193	DE160	DE192	DE192	DE160	DE215	DE215	DE160	DE216	DE216	DE163	DE194
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	37.9 U	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	11 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Nitrobenzene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Hexachlorobutadiene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
4-Nitroaniline	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
4-Nitrophenol	ug/kg	570 U	640 U	570 U	580 U	570 U	580 U	570 U	580 U	550 U	580 U	590 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
4-Methylphenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
4-Chloroaniline	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Phenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	380 U	--	360 J Z	--	--	34 J Z	--	--	--	21 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U B	150	--	21 U B	--	21 U	21 U	--	20 UJ FD	14 J Z	8.3 J Z	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	210 U	--	--	230	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	--	21 U	21 U	21 U	20 U	21 U	21 U	7.1 J Z
Hexachlorobenzene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Anthracene (8270C)	ug/kg	--	150 J Z	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	0.48 J Z	1.9 U	1.9 U	0.41 J Z	1.0 J FD, Z	0.59 J Z	2.0 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Pyrene (8270C)	ug/kg	--	2900	--	--	25 J Z	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9	--	1.9 U	1.9 U	2.2	1.1 J FD, Z	1.9 U	1.8 J Z	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	2200	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.5 J Z	2.3	1.9 U	1.9 U	2.2	1.8 U	1.9 U	2.0 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	1900	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	2	1.9 U	1.9 U	1.6 J Z	1.8 U	1.9 U	0.83 J Z	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	3400	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.5 J Z	4.1 J L	1.9 U	1.9 U	2.9 J L	1.2 J FD, Z	1.9 U	2.7 J L	1.9 U
Fluoranthene (8270C)	ug/kg	--	2600	--	--	22 J Z	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	0.90 J Z	--	1.9 U	1.9 U	3.1	1.1 J FD, Z	1.9 U	2.3	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	1600	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	1.7 J Z	1.9 U	1.9 U	0.99 J Z	0.97 J FD, Z	1.9 U	6.6 J L	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	11 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	1.9 U
Chrysene (8270C)	ug/kg	--	3000	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	--	0.61 J Z	2	3.1	0.59 J Z	1.9 U	1.7 J Z	0.91 J FD, Z	0.48 J Z	1.7 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	3100	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	2.2	2.6	1.9 U	1.9 U	1.3 J Z	0.92 J FD, Z	1.9 U	1.2 J L, Z	1.9 U
2,4-Dinitrophenol	ug/kg	1100 UJ L	1300 U	1100 U	1200 U	1100 U	1200 U	1100 U	1200 U	1100 U	1200 U	1200 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	640 U	570 U	580 U	570 U	580 U	570 U	580 U	550 U	580 U	590 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	590	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	2900	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.8 J Z	1.7 J Z	1.9 U	1.9 U	1.3 J Z	1.1 J FD, Z	1.9 U	2.0 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Aniline	ug/kg	570 U	640 U	570 U	580 U	570 U	580 U	570 U	580 U	550 U	580 U	590 U	580 U
Benzoic Acid	ug/kg	570 U	640 U	570 U	580 U	570 U	580 U	570 U	580 U	550 U	580 U	590 U	580 U
Hexachloroethane	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	640 U	570 U	580 U	570 U	580 U	570 U	580 U	550 U	580 U	590 U	580 U
Isophorone	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Acenaphthene (8270C)	ug/kg	--	49 J Z	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	--	--	--	--	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	10 J Z	--	21 U	21 U	21 U	21 U	21 U	21 U	20 UJ FD	12 J Z	8.9 J Z	--
Phenanthrene (8270C)	ug/kg	--	400	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	--	1.9 U	1.9 U	3.2	1.9 U	1.9 U	2.4	1.1 J FD, Z	0.83 J Z	1.6 J Z	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	21 U	21 U	21 U	21 U	21 U	20 U	8.3 J L, Z	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	7.3 J Z	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	1.9 U
Carbazole	ug/kg	190 U	130 J Z	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Pentachlorophenol	ug/kg	570 U	640 U	570 U	580 U	570 U	580 U	570 U	580 U	550 U	580 U	590 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
2-Nitroaniline	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
2-Nitrophenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	11 U	1.9 U	1.9 U	0.81 J Z	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-186-SA5DN-SB-9.0-10.0	SL-187-SA5DN-SS-0.0-0.5	SL-187-SA5DN-SB-4.0-5.0	SL-187-SA5DN-SB-9.0-10.0	SL-188-SA5DN-SS-0.0-0.5	SL-188-SA5DN-SB-4.0-5.0	SL-188-SA5DN-SB-9.0-10.0	SL-189-SA5DN-SS-0.0-0.5	SL-189-SA5DN-SB-4.0-5.0	SL-189-SA5DN-SB-9.0-10.0	SL-190-SA5DN-SS-0.0-0.5	SL-190-SA5DN-SB-4.0-5.0
Sample Date		07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/03/2011	08/03/2011	05/24/2011	08/04/2011	08/04/2011	05/25/2011	07/06/2011
SDG		DE193	DE160	DE192	DE192	DE160	DE215	DE215	DE160	DE216	DE216	DE163	DE194
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	11 U	1.9 U	1.9 U	2	1.9 U	1.9 U	1.6 J Z	1.8 U	1.9 U	1.4 J Z	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	5.9 J Z	1.9 U	1.9 U	1.5 J Z	1.9 U	1.9 U	1.2 J Z	1.8 U	1.9 U	0.98 J Z	1.9 U
2-Chloronaphthalene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	420 U	380 U	390 U	380 U	380 U	380 U	390 U	370 U	380 U	390 U	390 U
Benzidine	ug/kg	3800 U	4200 U	3800 U	3900 U	3800 U	3800 U	3800 U	3900 U	3700 UJ Q	3800 U	3900 U	3900 U
2-Methylphenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
2-Chlorophenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
3-Nitroaniline	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U
Benzyl Alcohol	ug/kg	570 U	640 U	570 U	580 U	570 U	580 U	570 U	580 U	550 U	580 U	590 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	210 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	200 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-190-SA5DN-SB-9.0-10.0	SL-191-SA5DN-SS-0.0-0.5	SL-191-SA5DN-SB-4.0-5.0	SL-191-SA5DN-SB-9.0-10.0	SL-192-SA5DN-SS-0.0-0.5	SL-192-SA5DN-SB-4.0-5.0	SL-192-SA5DN-SB-9.0-10.0	SL-193-SA5DN-SS-0.0-0.5	SL-193-SA5DN-SB-4.0-5.0	SL-193-SA5DN-SB-9.0-10.0	SL-194-SA5DN-SS-0.0-0.5	SL-194-SA5DN-SB-4.0-5.0
Sample Date		07/06/2011	05/24/2011	07/06/2011	07/06/2011	05/24/2011	07/05/2011	07/05/2011	05/24/2011	08/03/2011	08/03/2011	05/24/2011	07/05/2011
SDG		DE194	DE160	DE194	DE194	DE160	DE193	DE193	DE160	DE215	DE215	DE160	DE193
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	44.1	38.4 U	38.5 U	410 U	38.5 U	38.6 U	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.9 U	9.1 U	1.9 U	1.9 U	2.1 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
4-Nitrophenol	ug/kg	580 U	540 U	580 U	590 U	610 U	580 U	580 U	550 U	560 U	580 U	620 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	390 U	33 J Z	--	--	38 J Z	380 U	390 U	--	--	--	49 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U B	--	21 U B	21 U B	--	--	--	61 J Z	14 J Z	21 U	--	21 U B
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	7.2 J Z	20 U	21 U	7.5 J Z	22 U	21 U	21 U	--	20 U	21 U	23 U	21 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	0.70 J Z	1.9 U	2.0 U	1.1 J Z	1.9 U	1.9 U	9.1 U	1.6 J Z	1.9 U	0.87 J Z	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.0 U	6.2	1.9 U	2.0 U	8.1	1.9 U	1.9 U	4.8 J Z	31	1.9 U	18	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	21 U	21 U	22 U	21 U	21 U	--	20 U	21 U	23 U	21 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.0 U	12	1.9 U	2.0 U	5.5	1.9 U	1.9 U	3.7 J Z	7	1.9 U	8.1	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.0 U	5.1	1.9 U	2.0 U	4.1	1.9 U	1.9 U	9.1 U	6.9	1.9 U	7	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 U	6.9 J L	1.9 U	2.0 U	7.6 J L	1.9 U	1.9 U	4.1 J L, Z	23	1.9 U	16 J L	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.0 U	4.8	1.9 U	2.0 U	7.4	1.9 U	1.9 U	4.4 J Z	30	1.9 U	16	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.0 U	2.1	1.9 U	2.0 U	2.1	1.9 U	1.9 U	9.1 U	10	1.9 U	5.3	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	2.0 U	0.46 J Z	1.9 U	1.9 U	9.1 U	1.9 U	1.9 U	2.1 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.0 U	4.3	1.9 U	2.0 U	6.8	1.9 U	1.9 U	3.5 J Z	28	0.52 J Z	11	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.0 U	4	1.9 U	2.0 U	6.6	1.9 U	1.9 U	9.1 U	14	1.9 U	9.8	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1200 U	1200 U	1200 U	1200 UJ L	1200 UJ L	1100 U	1100 U	1200 U	1200 U	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	540 U	580 U	590 U	610 U	580 U	580 U	550 U	560 U	580 U	620 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	1.1 J Z	1.9 U	2.0 U	1.1 J Z	1.9 U	1.9 U	9.1 U	2.2	1.9 U	1.6 J Z	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0 U	2.3	1.9 U	2.0 U	4.2	1.9 U	1.9 U	9.1 U	20	1.9 U	5.9	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Aniline	ug/kg	580 U	540 U	580 U	590 U	610 U	580 U	580 U	550 U	560 U	580 U	620 U	570 U
Benzoic Acid	ug/kg	580 U	540 U	580 U	590 U	610 U	580 U	580 U	550 U	560 U	580 U	620 U	570 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Hexachlorocyclopentadiene	ug/kg	580 U	540 U	580 U	590 U	610 U	580 U	580 U	550 U	560 U	580 U	620 U	570 U
Isophorone	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.9 U	9.1 U	1.9 U	1.9 U	2.1 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	20 U	21 U	21 U	22 U	21 U	21 U	--	20 U	21 U	23 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	190 U	200 U	--	--	--	180 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	--	--	22 U	8.9 J Z	9.3 J Z	--	20 U	21 U	8.6 J L, Z	9.1 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.0 U	2.8	1.9 U	2.0 U	4.9	1.9 U	1.9 U	9.1 U	4.3	1.9 U	7.6	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	21 U	21 U	22 U	21 U	21 U	--	20 U	21 U	23 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2.0 U	1.8 U	1.9 U	2.0 U	2.0 J Z	1.9 U	1.9 U	9.1 U	1.9 U	1.9 U	1.5 J Z	1.9 U
Carbazole	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Pentachlorophenol	ug/kg	580 U	540 U	580 U	590 U	610 U	580 U	580 U	550 U	560 U	580 U	620 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	0.96 J Z	1.9 U	2.0 U	1.6 J Z	1.9 U	1.9 U	9.1 U	0.76 J Z	1.9 U	1.2 J Z	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-190-SA5DN-SB-9.0-10.0	SL-191-SA5DN-SS-0.0-0.5	SL-191-SA5DN-SB-4.0-5.0	SL-191-SA5DN-SB-9.0-10.0	SL-192-SA5DN-SS-0.0-0.5	SL-192-SA5DN-SB-4.0-5.0	SL-192-SA5DN-SB-9.0-10.0	SL-193-SA5DN-SS-0.0-0.5	SL-193-SA5DN-SB-4.0-5.0	SL-193-SA5DN-SB-9.0-10.0	SL-194-SA5DN-SS-0.0-0.5	SL-194-SA5DN-SB-4.0-5.0
Sample Date		07/06/2011	05/24/2011	07/06/2011	07/06/2011	05/24/2011	07/05/2011	07/05/2011	05/24/2011	08/03/2011	08/03/2011	05/24/2011	07/05/2011
SDG		DE194	DE160	DE194	DE194	DE160	DE193	DE193	DE160	DE215	DE215	DE160	DE193
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	2.0 U	1.6 J Z	1.9 U	2.0 U	2.8	1.9 U	1.9 U	9.1 U	1.5 J Z	1.9 U	2.5	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.5 J Z	1.9 U	2.0 U	2.3	1.9 U	1.9 U	9.1 U	1.3 J Z	1.9 U	1.8 J Z	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
3,3`-Dichlorobenzidine	ug/kg	--	360 U	390 U	390 U	410 U	380 U	390 U	360 U	380 U	380 U	410 U	380 U
Benzidine	ug/kg	3900 U	3600 U	3900 U	3900 U	4100 U	3800 U	3900 U	3600 U	3800 U	3800 U	4100 U	3800 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U
Benzyl Alcohol	ug/kg	580 U	540 U	580 U	590 U	610 U	580 U	580 U	550 U	560 U	580 U	620 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	200 U	200 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-194-SA5DN-SB-9.0-10.0	SL-195-SA5DN-SS-0.0-0.5	SL-195-SA5DN-SB-4.0-5.0	SL-195-SA5DN-SB-9.0-10.0	SL-196-SA5DN-SS-0.0-0.5	SL-196-SA5DN-SB-4.0-5.0	SL-196-SA5DN-SB-9.0-10.0	SL-197-SA5DN-SS-0.0-0.5	SL-197-SA5DN-SB-4.0-5.0	SL-197-SA5DN-SB-9.0-10.0	SL-198-SA5DN-SS-0.0-0.5	SL-198-SA5DN-SB-4.0-5.0
Sample Date		07/05/2011	05/24/2011	07/05/2011	07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/05/2011
SDG		DE193	DE160	DE193	DE193	DE160	DE192	DE192	DE160	DE192	DE192	DE160	DE218
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	387 U	39.0 U	39.8 U	21.3 J Z	102
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	9.7 U	1.9 U	2.0 U	9.2 U	9.7 U
2,4-Dinitrotoluene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Nitrobenzene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Hexachlorobutadiene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
4-Nitroaniline	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
4-Nitrophenol	ug/kg	590 U	630 U	580 U	600 U	580 U	570 U	580 U	580 U	590 U	590 U	550 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
4-Methylphenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
4-Chloroaniline	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Phenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	58 J Z	--	--	250 J Z	380 U	390 U	1200	--	400 U	88 J Z	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U B	--	21 U B	22 U B	--	--	--	--	21 U B	--	--	120
Di-N-Octyl Phthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	25 J Z	--	--	180 U	190 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	7.1 J Z	--	7.7 J Z	22 U	21 U	21 U	21 U	--	7.1 J Z	21 U	--	--
Hexachlorobenzene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	110 J Z	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.5 J Z	1.9 U	1.9 U	--	1.9 U	0.45 J Z	9.2 U	9.7 U
2,4-Dichlorophenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	150 J Z	--	--	25 J Z	--
Pyrene (8270C SIM)	ug/kg	1.9 U	9.0 J Z	1.9 U	2.0 U	16	0.80 J Z	1.9 U	--	1.9 U	2.0 U	--	10
Dimethylphthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	190 U	--	--	180 U	190 U
Dimethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	22 U	21 U	21 U	21 U	--	21 U	21 U	--	--
Dibenzofuran	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	89 J Z	--	--	25 J Z	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	12	1.9 U	2.0 U	7.9	1.9 U	1.9 U	--	1.9 U	1.2 J Z	--	9.0 J Z
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	88 J Z	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	5.4 J Z	1.9 U	2.0 U	7.1	1.9 U	1.9 U	--	1.9 U	0.92 J Z	11	5.9 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	280	--	--	29 J Z	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	10 J L	1.9 U	2.0 U	14 J L	1.9 U	1.9 U	--	1.9 U	2.1	--	21
Fluoranthene (8270C)	ug/kg	200 U	--	--	--	--	--	--	75 J Z	--	--	19 J Z	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	11	1.9 U	2.0 U	18	1.9 U	1.9 U	--	1.9 U	0.81 J Z	--	11
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	89 J Z	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	6.1	1.9 U	1.9 U	--	1.9 U	2.0 U	6.3 J Z	5.9 J Z
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	45 J Z	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	--	1.9 U	1.1 J Z	9.2 U	9.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	190	--	--	34 J Z	--
Chrysene (8270C SIM)	ug/kg	1.9 U	7.3 J Z	1.9 U	2.0 U	11	1.9 U	1.9 U	--	1.9 U	1.4 J Z	--	16
bis(2-Chloroisopropyl) ether	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	190	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	5.3 J Z	1.9 U	2.0 U	9.6	1.9 U	1.9 U	--	1.9 U	1.6 J Z	13	11
2,4-Dinitrophenol	ug/kg	1200 UJ L	1300 U	1200 UJ L	1200 UJ L	1200 U	1100 U	1200 U	1200 U	1200 U	1200 U	1100 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	630 U	580 U	600 U	580 U	570 U	580 U	580 U	590 U	590 U	550 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	30 J Z	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.7 J Z	1.9 U	1.9 U	--	1.9 U	2.0 U	9.2 U	9.7 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	87 J Z	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	4.4 J Z	1.9 U	2.0 U	8.6	1.9 U	1.9 U	--	1.9 U	1.7 J Z	8.0 J Z	6.7 J Z
4-Chloro-3-Methylphenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Aniline	ug/kg	590 U	630 U	580 U	600 U	580 U	570 U	580 U	580 U	590 U	590 U	550 U	580 U
Benzoic Acid	ug/kg	590 U	630 U	580 U	600 U	580 U	570 U	580 U	580 U	590 U	590 U	550 U	580 U
Hexachloroethane	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	630 U	580 U	600 U	580 U	570 U	580 U	580 U	590 U	590 U	550 U	580 U
Isophorone	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	9.7 U	1.9 U	2.0 U	9.2 U	9.7 U
Diethylphthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	190 U	--	--	180 U	190 U
Diethylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	22 U	21 U	21 U	21 U	--	21 U	21 U	--	--
Di-n-Butylphthalate (8270C)	ug/kg	--	210 U	--	--	--	--	--	190 U	--	--	180 U	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	12 J Z	--	9.2 J Z	9.8 J Z	7.6 J L, Z	21 U	21 U	--	21 U	21 U	--	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	21 J Z	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	5.0 J Z	1.9 U	2.0 U	7.9	1.9 U	1.9 U	--	1.9 U	2.0 U	5.9 J Z	5.5 J Z
Butylbenzylphthalate (8270C)	ug/kg	200 U	210 U	--	--	--	--	--	190 U	--	--	180 U	190 U
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	--	21 U	22 U	21 U	21 U	21 U	--	21 U	21 U	--	--
N-Nitrosodiphenylamine	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.0 J Z	1.9 U	1.9 U	9.7 U	1.9 U	2.0 U	9.2 U	9.7 U
Carbazole	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	130 J Z	200 U	200 U	180 U	190 U
Pentachlorophenol	ug/kg	590 U	630 U	580 U	600 U	580 U	570 U	580 U	580 U	590 U	590 U	550 U	580 U
2,4,6-Trichlorophenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
2-Nitroaniline	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
2-Nitrophenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	0.82 J Z	1.9 U	1.9 U	9.7 U	1.9 U	2.0 U	9.2 U	9.7 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-194-SA5DN-SB-9.0-10.0	SL-195-SA5DN-SS-0.0-0.5	SL-195-SA5DN-SB-4.0-5.0	SL-195-SA5DN-SB-9.0-10.0	SL-196-SA5DN-SS-0.0-0.5	SL-196-SA5DN-SB-4.0-5.0	SL-196-SA5DN-SB-9.0-10.0	SL-197-SA5DN-SS-0.0-0.5	SL-197-SA5DN-SB-4.0-5.0	SL-197-SA5DN-SB-9.0-10.0	SL-198-SA5DN-SS-0.0-0.5	SL-198-SA5DN-SB-4.0-5.0
Sample Date		07/05/2011	05/24/2011	07/05/2011	07/05/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/05/2011
SDG		DE193	DE160	DE193	DE193	DE160	DE192	DE192	DE160	DE192	DE192	DE160	DE218
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.8 J Z	1.9 U	1.9 U	6.7 J Z	1.9 U	2.0 U	9.2 U	9.7 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	10 U	1.9 U	2.0 U	1.3 J Z	1.9 U	1.9 U	9.7 U	1.9 U	2.0 U	9.2 U	9.7 U
2-Chloronaphthalene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	420 U	390 U	400 U	380 U	380 U	390 U	390 U	390 U	400 U	370 U	390 U
Benzidine	ug/kg	3900 U	4200 U	3900 U	4000 U	3800 U	3800 U	3900 U	3900 U	3900 U	4000 U	3700 U	3900 U
2-Methylphenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
2-Chlorophenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
3-Nitroaniline	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U
Benzyl Alcohol	ug/kg	590 U	630 U	580 U	600 U	580 U	570 U	580 U	580 U	590 U	590 U	550 U	580 U
2,6-Dinitrotoluene	ug/kg	200 U	210 U	190 U	200 U	190 U	190 U	190 U	190 U	200 U	200 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-198-SA5DN-SB-9.0-10.0	SL-199-SA5DN-SS-0.0-0.5	SL-199-SA5DN-SB-4.0-5.0	SL-199-SA5DN-SB-9.0-10.0	SL-200-SA5DN-SS-0.0-0.5	SL-200-SA5DN-SB-4.0-5.0	SL-200-SA5DN-SB-9.0-10.0	SL-201-SA5DN-SS-0.0-0.5	SL-201-SA5DN-SB-4.0-5.0	SL-201-SA5DN-SB-9.0-10.0	SL-202-SA5DN-SS-0.0-0.5	SL-202-SA5DN-SB-4.0-5.0
Sample Date		08/05/2011	05/25/2011	07/11/2011	07/11/2011	05/25/2011	07/06/2011	07/06/2011	05/25/2011	07/06/2011	07/06/2011	05/18/2011	06/13/2011
SDG		DE218	DE163	DE197	DE197	DE164	DE194	DE194	DE164	DE194	DE194	DE154	DE179
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	101	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	9.3 U	2.0 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
4-Nitrophenol	ug/kg	560 U	550 U	580 U	560 U	580 U	580 U	580 U	590 U	580 U	580 U	550 U	600 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Phenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	370 UJ B, L	--	29 J Z	--	--	20 J Z	390 U B	--	--	370 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	7.5 J Z	--	21 U	21 U B	--	--	21 U B	21 U B	--	22 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	20 U	21 U	7.0 J FD, Z	7.1 J Z	21 U	9.5 J Z	21 U	--	22 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	9.3 U	2.0 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	4.6	1.9 U	1.9 U	1.1 J Z	1.9 U	2.0 U	1.9 J FD, Z	1.9 U	1.9 U	11	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	20 U	21 U	21 U	21 U	21 U	21 U	21 U	--	22 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.2 J Z	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	0.99 J FD, Z	1.9 U	1.9 U	6.7 J Z	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	0.82 J FD, Z	1.9 U	1.9 U	9.3 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	7.7 J L	1.9 U	1.9 U	3.1	1.9 U	2.0 U	4.9	1.9 U	1.9 U	14	0.90 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	5.5	1.9 U	1.9 U	1.5 J Z	1.9 U	2.0 U	2.4 J FD	1.9 U	1.9 U	16	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	6.7 J L	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	5.7 J Z	2.0 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	9.3 U	2.0 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	4.7	1.9 U	1.9 U	1.1 J Z	1.9 U	2.0 U	1.7 J Z	1.9 U	1.9 U	9.8	0.67 J Z
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	3.1 J L	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.1 J Z	1.9 U	1.9 U	8.9 J Z	2.0 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1200 U	1100 U	1200 U	1200 U	1200 U	1200 U	1200 U	1200 U	1100 UJ L	1200 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	550 U	580 U	560 U	580 U	580 U	580 U	590 U	580 U	580 U	550 U	600 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	9.3 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	2.2	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	0.87 J FD, Z	1.9 U	1.9 U	7.9 J Z	2.0 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Aniline	ug/kg	560 U	550 U	580 U	560 U	580 U	580 U	580 U	590 U	580 U	580 U	550 U	600 U
Benzoic Acid	ug/kg	560 U	550 U	580 U	560 U	580 U	580 U	580 U	590 U	580 U	580 U	550 U	600 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Hexachlorocyclopentadiene	ug/kg	560 U	550 U	580 U	560 U	580 U	580 U	580 U	590 U	580 U	580 U	550 U	600 U
Isophorone	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	9.3 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	20 U	21 U	21 U	21 U	21 U	21 U	21 U	--	22 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	190 U	190 U	--	--	190 U	--	190 U	190 U	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	--	--	21 U	21 U B	--	21 U	--	--	--	22 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	2.7	1.9 U	1.9 U	1.5 J Z	1.9 U	2.0 U	2.0 J FD	1.9 U	1.9 U	5.8 J Z	2.0 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	20 U	21 U	21 U	21 U	21 UJ FD	21 U	21 U	--	22 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	9.3 U	2.0 U
Carbazole	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Pentachlorophenol	ug/kg	560 U	550 U	580 U	560 U	580 U	580 U	580 U	590 U	580 U	580 U	550 U	600 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	9.3 U	2.0 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-198-SA5DN-SB-9.0-10.0	SL-199-SA5DN-SS-0.0-0.5	SL-199-SA5DN-SB-4.0-5.0	SL-199-SA5DN-SB-9.0-10.0	SL-200-SA5DN-SS-0.0-0.5	SL-200-SA5DN-SB-4.0-5.0	SL-200-SA5DN-SB-9.0-10.0	SL-201-SA5DN-SS-0.0-0.5	SL-201-SA5DN-SB-4.0-5.0	SL-201-SA5DN-SB-9.0-10.0	SL-202-SA5DN-SS-0.0-0.5	SL-202-SA5DN-SB-4.0-5.0
Sample Date		08/05/2011	05/25/2011	07/11/2011	07/11/2011	05/25/2011	07/06/2011	07/06/2011	05/25/2011	07/06/2011	07/06/2011	05/18/2011	06/13/2011
SDG		DE218	DE163	DE197	DE197	DE164	DE194	DE194	DE164	DE194	DE194	DE154	DE179
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.3 J Z	1.9 U	1.9 U	1.0 J Z	1.9 U	2.0 U	1.4 J Q, E, Z	1.9 U	1.9 U	9.3 U	2.0 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	0.97 J Z	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	0.93 J FD, Z	1.9 U	1.9 U	9.3 U	2.0 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	390 U	370 U	390 U	380 U	390 U	390 U	390 U	390 U	370 U	400 U
Benzidine	ug/kg	3700 U	3700 U	3900 U	3700 U	3900 U	3800 U	3900 U	3900 UJ Q	3900 U	3900 U	3700 U	4000 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 UJ Q	190 U	200 U	190 U	190 U	180 U	200 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U
Benzyl Alcohol	ug/kg	560 U	550 U	580 U	560 U	580 U	580 U	580 U	590 U	580 U	580 U	550 U	600 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	200 U	190 U	190 U	180 U	200 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-202-SA5DN-SB-9.0-10.0	SL-203-SA5DN-SS-0.0-0.5	SL-203-SA5DN-SB-4.0-5.0	SL-203-SA5DN-SB-9.0-10.0	SL-204-SA5DN-SS-0.0-0.5	SL-204-SA5DN-SB-4.0-5.0	SL-204-SA5DN-SB-9.0-10.0	SL-205-SA5DN-SS-0.0-0.5	SL-205-SA5DN-SB-4.0-5.0	SL-205-SA5DN-SB-9.0-10.0	SL-206-SA5DN-SS-0.0-0.5	SL-206-SA5DN-SB-4.0-5.0
Sample Date		06/13/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011	08/04/2011	05/25/2011	07/06/2011	07/06/2011	05/17/2011	05/19/2011
SDG		DE179	DE161	DE192	DE192	DE161	DE216	DE216	DE164	DE194	DE194	DE152	DE156
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	590 U	590 U	590 U	580 U	590 U	550 U	580 U	580 U	580 U	580 U	560 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	53 J Z	--	--	58 J Z	--	--	390 U B	35 J Z	24 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	21 U B	21 U B	--	41	17 J Z	--	--	--	13 J Z	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	7.3 J Z	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.0 U	14	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	31	1.9 U
2,4-Dichlorophenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.0 U	120	1.9 U	1.9 U	1.0 J Z	1.8 U	1.9 U	1.1 J Z	1.9 U	2.0 U	390	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	21 U	20 U	20 U
Dibenzofuran	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.0 U	26	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	0.79 J Z	1.9 U	2.0 U	37	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.0 U	27	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	49	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.0 U	110	1.9 U	1.9 U	1.2 J Z	1.8 U	1.9 U	4.1	1.9 U	2.0 U	450	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.0 U	140	1.9 U	1.9 U	2.3	1.8 U	1.9 U	1.4 J Z	1.9 U	2.0 U	450	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.0 U	49 J L	1.9 U	1.9 U	4.2 J L	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	160	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2.0 U	2.0 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	0.73 J Z	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.0 U	78	1.9 U	1.9 U	0.89 J Z	0.43 J Z	1.9 U	3.5	1.9 U	2.0 U	260	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.0 U	77 J L	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	0.84 J Z	1.9 U	2.0 U	240	1.9 U
2,4-Dinitrophenol	ug/kg	1200 U	1200 U	1200 U	1200 U	1200 U	1100 U	1200 U	1200 U	1200 U	1200 U	1100 U	1100 UJ L
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	590 U	590 U	580 U	590 U	550 U	580 U	580 U	580 U	580 U	560 U	570 UJ L
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.0 U	9	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	19	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.0 U	64	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	290	1.9 U
4-Chloro-3-Methylphenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	590 U	590 U	590 U	580 U	590 U	550 U	580 U	580 U	580 U	580 U	560 U	570 U
Benzoic Acid	ug/kg	590 U	590 U	590 U	580 U	590 U	550 U	580 U	580 U	580 U	580 U	560 U	570 U
Hexachloroethane	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	590 U	590 U	580 U	590 U	550 U	580 U	580 U	580 U	580 U	560 U	570 U
Isophorone	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.0 U	6.6	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	9.7	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	20 U	21 U	21 U	21 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	190 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	13 J Z	12 J Z	21 U	--	--	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.0 U	62	1.9 U	1.9 U	1.1 J Z	1.8 U	1.9 U	0.98 J Z	1.9 U	2.0 U	160	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	21 U	21 U	21 U	8.2 J L, Z	21 U	9.5 J Z	21 U	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2.0 U	4.1	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	6.8	1.9 U
Carbazole	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	590 U	590 U	590 U	580 U	590 U	550 U	580 U	580 U	580 U	580 U	560 U	570 U
2,4,6-Trichlorophenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.1 J Z	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	0.96 J Z	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-202-SA5DN-SB-9.0-10.0	SL-203-SA5DN-SS-0.0-0.5	SL-203-SA5DN-SB-4.0-5.0	SL-203-SA5DN-SB-9.0-10.0	SL-204-SA5DN-SS-0.0-0.5	SL-204-SA5DN-SB-4.0-5.0	SL-204-SA5DN-SB-9.0-10.0	SL-205-SA5DN-SS-0.0-0.5	SL-205-SA5DN-SB-4.0-5.0	SL-205-SA5DN-SB-9.0-10.0	SL-206-SA5DN-SS-0.0-0.5	SL-206-SA5DN-SB-4.0-5.0
Sample Date		06/13/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/04/2011	08/04/2011	05/25/2011	07/06/2011	07/06/2011	05/17/2011	05/19/2011
SDG		DE179	DE161	DE192	DE192	DE161	DE216	DE216	DE164	DE194	DE194	DE152	DE156
Start Depth		9	0	4	9	0	4	9	0	4	9	0	4
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Naphthalene (8270C SIM)	ug/kg	2.0 U	2.6	1.9 U	1.9 U	1.1 J Z	1.8 U	1.9 U	1.1 J Z	1.9 U	2.0 U	4	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	2.0 U	1.3 J Z	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	1.9 U	1.9 U	2.0 U	1.4 J Z	1.9 U
2-Chloronaphthalene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	390 U	390 U	390 U	390 U	370 U	390 U	390 U	390 U	390 U	380 U	380 U
Benzidine	ug/kg	3900 U	3900 U	3900 U	3900 U	3900 U	3700 U	3900 U	3900 U	3900 U	3900 U	3800 U	3800 U
2-Methylphenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	590 U	590 U	590 U	580 U	590 U	550 U	580 U	580 U	580 U	580 U	560 U	570 U
2,6-Dinitrotoluene	ug/kg	200 U	200 U	200 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U

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R - Result is rejected

Sample Name		SL-207-SA5DN-SS-0.0-0.5	SL-207-SA5DN-SB-4.0-5.0
Sample Date		06/03/2011	08/11/2011
SDG		DE173	DE222
Start Depth		0	4
End Depth		0.5	5
Chemical Name	Unit		
N-Nitrosodimethylamine (1625C)	ng/kg	358 U	37.9 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U
4-Nitroaniline	ug/kg	180 U	190 U
4-Nitrophenol	ug/kg	540 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U
4-Methylphenol	ug/kg	180 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U
Phenol	ug/kg	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	360 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U
Anthracene (8270C)	ug/kg	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U
Pyrene (8270C)	ug/kg	--	--
Pyrene (8270C SIM)	ug/kg	4.2	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U
Dibenzofuran	ug/kg	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.5 J Z	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	6.1	1.9 U
Fluoranthene (8270C)	ug/kg	--	--
Fluoranthene (8270C SIM)	ug/kg	6.1 J L	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U
Chrysene (8270C)	ug/kg	--	--
Chrysene (8270C SIM)	ug/kg	4.9	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.7	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U
Aniline	ug/kg	540 U	570 U
Benzoic Acid	ug/kg	540 U	570 U
Hexachloroethane	ug/kg	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	540 U	570 U
Isophorone	ug/kg	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	6.9 J L, Z	20 U
Phenanthrene (8270C)	ug/kg	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U
Fluorene (8270C)	ug/kg	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U
Carbazole	ug/kg	180 U	190 U
Pentachlorophenol	ug/kg	540 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--

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Appendix A6
Semivolatiles-Validated Data
HSA-5DN

		Sample Name	SL-207-SA5DN-SS-0.0-0.5	SL-207-SA5DN-SB-4.0-5.0
		Sample Date	06/03/2011	08/11/2011
		SDG	DE173	DE222
		Start Depth	0	4
		End Depth	0.5	5
Naphthalene (8270C SIM)	ug/kg		1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg		--	--
2-Methylnaphthalene (8270C SIM)	ug/kg		1.8 U	1.9 U
2-Chloronaphthalene	ug/kg		180 U	190 U
3,3`-Dichlorobenzidine	ug/kg		360 U	380 U
Benzidine	ug/kg		3600 U	3800 U
2-Methylphenol	ug/kg		180 U	190 U
2-Chlorophenol	ug/kg		180 U	190 U
2,4,5-Trichlorophenol	ug/kg		180 U	190 U
3-Nitroaniline	ug/kg		180 U	190 U
Benzyl Alcohol	ug/kg		540 U	570 U
2,6-Dinitrotoluene	ug/kg		180 U	190 U

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Sample Name		SL-001-SA5DN-SB-5.5-6.5	SL-002-SA5DN-SB-4.0-5.0	SL-003-SA5DN-SB-0.5-1.5	SL-003-SA5DN-SB-8.0-9.0	SL-004-SA5DN-SB-3.5-4.5	SL-004-SA5DN-SB-9.0-10.0	SL-005-SA5DN-SB-4.0-5.0	SL-008-SA5DN-SB-4.0-5.0	SL-010-SA5DN-SB-4.0-5.0	SL-012-SA5DN-SS-0.0-0.5	SL-012-SA5DN-SB-4.0-5.0
Sample Date		05/17/2011	05/16/2011	05/16/2011	05/16/2011	05/16/2011	05/16/2011	05/17/2011	05/31/2011	05/31/2011	05/23/2011	08/09/2011
SDG		DE153	DE151	DE151	DE151	DE151	DE151	DE153	DE168	DE168	DE160	DE220
Start Depth		5.5	4	0.5	8	3.5	9	4	4	4	0	4
End Depth		6.5	5	1.5	9	4.5	10	5	5	5	0.5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	1.0 U	1.1 U	1.2 U	1 U	--	--	--	--	1.0 U
EFH (C12-C14)	mg/kg	--	--	2.9 U	2.7 U	1.4 U	1.4 U	--	--	--	34 R Q	1.3 U
EFH (C15-C20)	mg/kg	--	--	1.8 J Z	1.0 J Z	1.4 U	1.4 U	--	--	--	34 R Q	1.3 U
EFH (C21-C30)	mg/kg	--	--	11	9	1.4 U	2.2	--	--	--	62	1.9
EFH (C30-C40)	mg/kg	--	--	68	47	0.93 J Z	17	--	--	--	220	4.6
EFH (C8-C11)	mg/kg	--	--	2.9 U	2.7 U	1.4 U	1.4 U	--	--	--	34 R Q	1.3 U
1,4-Dichlorobenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2,4-Trichlorobenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,3-Dichlorobenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Hexachlorobutadiene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2-Dichlorobenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Isopropyltoluene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Ethylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Styrene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
cis-1,3-Dichloropropene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
trans-1,3-Dichloropropene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
N-Propylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
N-Butylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
4-Chlorotoluene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2-Dibromoethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2-Dichloroethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
4-Methyl-2-Pentanone	ug/kg	8.1 U	8.0 U	8.4 U	9.2 U	8.0 U	7.9 U	8.9 U	8.7 U	8.4 U	--	--
1,3,5-Trimethylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Bromobenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Toluene	ug/kg	4.1 U	0.08 J Z	0.13 J Z	0.12 J Z	0.15 J Z	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Chlorobenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,4-Dioxane	ug/kg	16 U	15 U	16 U	15 U	16 U	15 U	16 U	16 U	15 U	--	--
Dibromochloromethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Tetrachloroethene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
sec-Butylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,3-Dichloropropane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
cis-1,2-Dichloroethene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
trans-1,2-Dichloroethene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Methyl tert-Butyl Ether	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
m,p-Xylene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Carbon tetrachloride	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,1-Dichloropropene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
2-Hexanone	ug/kg	8.1 U	8.0 U	8.4 U	9.2 U	8.0 U	7.9 U	8.9 U	8.7 U	8.4 U	--	--
2,2-Dichloropropane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Acetone	ug/kg	8.1 U	8.0 U	22	9.2 U	15	7.9 U	8.9 U	8.7 U B	8.4 U B	--	--
Chloroform	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Benzene	ug/kg	4.1 U	4.0 U	0.21 J Z	4.6 U	0.17 J Z	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,1,1-Trichloroethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Bromomethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Chloromethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Dibromomethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Bromochloromethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Chloroethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Vinyl Chloride	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Methylene chloride	ug/kg	4.1 U B	4.5	5.1	4.6 U B	4.0 U B	3.9 U B	4.5 U B	4.3 U B	4.2 U B	--	--
Bromoform	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Bromodichloromethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,1-Dichloroethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,1-Dichloroethene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Trichlorofluoromethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Dichlorodifluoromethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Freon 113a	ug/kg	5.1 U	5.0 U	5.2 U	5.8 U	5.0 U	4.9 U	5.6 U	5.4 U	5.2 U	--	--
Freon 113	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2-Dichloropropane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
2-Butanone	ug/kg	8.1 U	8.0 U	3.9 J Z	9.2 U	3.2 J Z	7.9 U	8.9 U	8.7 U	8.4 U	--	--
1,1,2-Trichloroethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Trichloroethene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Chlorotrifluoroethene	ug/kg	5.1 U	5.0 U	5.2 U	5.8 U	5.0 U	4.9 U	5.6 U	5.4 U	5.2 U	--	--
1,2,3-Trichlorobenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
o-Xylene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
2-Chlorotoluene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2,4-Trimethylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
1,2,3-Trichloropropane	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
tert-Butylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--
Isopropylbenzene	ug/kg	4.1 U	4.0 U	4.2 U	4.6 U	4.0 U	3.9 U	4.5 U	4.3 U	4.2 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-012-SA5DN-SB-9.0-10.0	SL-013-SA5DN-SS-0.0-0.5	SL-013-SA5DN-SB-4.0-5.0	SL-013-SA5DN-SB-9.0-10.0	SL-014-SA5DN-SS-0.0-0.5	SL-014-SA5DN-SB-4.0-5.0	SL-014-SA5DN-SB-9.0-10.0	SL-015-SA5DN-SS-0.0-0.5	SL-015-SA5DN-SB-4.0-5.0	SL-015-SA5DN-SB-12.0-13.0	SL-016-SA5DN-SS-0.0-0.5
Sample Date		08/09/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	05/31/2011	05/31/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011
SDG		DE220	DE160	DE168	DE168	DE160	DE169	DE169	DE159	DE170	DE170	DE159
Start Depth		9	0	4	9	0	4	9	0	4	12	0
End Depth		10	0.5	5	10	0.5	5	10	0.5	5	13	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1.0 U	--	1 U	1.1 U	--	1.1 U	1.1 U	--	0.3 J Z	0.9 U	--
EFH (C12-C14)	mg/kg	1.4 U	62 U	1.4 U	1.4 U	33 U	1.4 U	1.4 U	6.8 U	1.4 U	1.3 U	13 U
EFH (C15-C20)	mg/kg	1.4 U	62 U	1.4 U	1.4 U	33 U	1.4 U	1.4 U	14	0.54 J Z	1.3 U	8.2 J Z
EFH (C21-C30)	mg/kg	1.4 U	120	1.4 U	1.4 U	64	1.4 U	1.4 U	39	1.6	1.3 U	95
EFH (C30-C40)	mg/kg	0.68 J Z	62 U B	1.4 U	1.4 U	230	0.71 J FD, Z	0.54 J Z	180	5.3	1.3 U	450
EFH (C8-C11)	mg/kg	1.4 U	62 U	1.4 U	1.4 U	33 U	1.4 U	1.4 U	6.8 U	1.4 U	1.3 U	13 U
1,4-Dichlorobenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,2,4-Trichlorobenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,3-Dichlorobenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Hexachlorobutadiene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,2-Dichlorobenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Isopropyltoluene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Ethylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Styrene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
cis-1,3-Dichloropropene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
trans-1,3-Dichloropropene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
N-Propylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
N-Butylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
4-Chlorotoluene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,2-Dibromoethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,2-Dichloroethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
4-Methyl-2-Pentanone	ug/kg	--	--	7.7 U	8.5 U	--	8.0 U	8.4 U	--	8.7 U	7.3 U	--
1,3,5-Trimethylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Bromobenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Toluene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Chlorobenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,4-Dioxane	ug/kg	--	--	15 U	16 U	--	18 U	17 U	--	16 U	14 U	--
Dibromochloromethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Tetrachloroethene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
sec-Butylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,3-Dichloropropane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
cis-1,2-Dichloroethene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
trans-1,2-Dichloroethene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Methyl tert-Butyl Ether	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
m,p-Xylene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Carbon tetrachloride	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,1-Dichloropropene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
2-Hexanone	ug/kg	--	--	7.7 U	8.5 U	--	8.0 U	8.4 U	--	8.7 U	7.3 U	--
2,2-Dichloropropane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Acetone	ug/kg	--	--	7.7 U B	8.5 U B	--	8.0 U B	8.4 U B	--	8.7 U B	7.3 U B	--
Chloroform	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Benzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,1,1-Trichloroethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Bromomethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Chloromethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Dibromomethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Bromochloromethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Chloroethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Vinyl Chloride	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Methylene chloride	ug/kg	--	--	3.9 U B	4.3 U B	--	4.0 U B	4.2 U B	--	4.4 U B	3.7 U B	--
Bromoform	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Bromodichloromethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,1-Dichloroethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,1-Dichloroethene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Trichlorofluoromethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Dichlorodifluoromethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Freon 113a	ug/kg	--	--	4.8 U	5.3 U	--	5.0 U	5.2 U	--	5.5 U	4.6 U	--
Freon 113	ug/kg	--	--	3.9 U	4.3 U	--	0.19 J FD, Z	4.2 U	--	4.4 U	3.7 U	--
1,2-Dichloropropane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
2-Butanone	ug/kg	--	--	7.7 U	8.5 U	--	8.0 U	8.4 U	--	8.7 U	7.3 U	--
1,1,2-Trichloroethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Trichloroethene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Chlorotrifluoroethene	ug/kg	--	--	4.8 U	5.3 U	--	5.0 UJ Q	5.2 U	--	5.5 U	4.6 U	--
1,2,3-Trichlorobenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
o-Xylene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
2-Chlorotoluene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,2,4-Trimethylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,2-Dibromo-3-chloropropane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
1,2,3-Trichloropropane	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
tert-Butylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--
Isopropylbenzene	ug/kg	--	--	3.9 U	4.3 U	--	4.0 U	4.2 U	--	4.4 U	3.7 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA5DN-SB-4.0-5.0	SL-016-SA5DN-SB-12.0-13.0	SL-017-SA5DN-SB-4.0-5.0	SL-018-SA5DN-SS-0.0-0.5	SL-018-SA5DN-SB-4.0-5.0	SL-018-SA5DN-SB-7.5-8.5	SL-019-SA5DN-SS-0.0-0.5	SL-019-SA5DN-SB-4.0-5.0	SL-019-SA5DN-SB-9.0-10.0	SL-020-SA5DN-SS-0.0-0.5	SL-020-SA5DN-SB-3.5-4.5
Sample Date		06/02/2011	06/02/2011	06/01/2011	05/23/2011	06/01/2011	06/01/2011	05/23/2011	06/03/2011	06/03/2011	05/20/2011	06/15/2011
SDG		DE172	DE172	DE170	DE160	DE170	DE172	DE159	DE173	DE173	DE158	DE181
Start Depth		4	12	4	0	4	7.5	0	4	9	0	3.5
End Depth		5	13	5	0.5	5	8.5	0.5	5	10	0.5	4.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1 U	0.9 U	--	--	1.2 U	1.0 U	--	1.2 U	1.2 U	--	0.9 U
EFH (C12-C14)	mg/kg	14 U	1.4 U	--	66 U	1.3 U	2.7 U	2.8 U	1.4 U	1.3 U	6.4 U	1.3 U
EFH (C15-C20)	mg/kg	70	1.4 U	--	66 U	1.3 U	2.7 U	5.4	1.4 U	1.3 U	5.8 J Z	1.3 U
EFH (C21-C30)	mg/kg	540	2.8	--	160	2.1	9.2	21	1.4 U	1.3 U	30	1.3 U
EFH (C30-C40)	mg/kg	290	7	--	710	5	28	61	1.4 U	1.3 U	190	1.4
EFH (C8-C11)	mg/kg	14 U	1.4 U	--	66 U	1.3 U	2.7 U	2.8 U	1.4 U	1.3 U	6.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,3-Dichlorobenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Hexachlorobutadiene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,2-Dichlorobenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Isopropyltoluene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Ethylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Styrene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
cis-1,3-Dichloropropene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
trans-1,3-Dichloropropene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
N-Propylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
N-Butylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
4-Chlorotoluene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,2-Dibromoethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,2-Dichloroethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
4-Methyl-2-Pentanone	ug/kg	8.7 U	9.6 U	8.1 U	--	9.2 U	8.6 U	--	9.3 UJ C	9.1 UJ C	--	7.7 U
1,3,5-Trimethylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Bromobenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Toluene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	0.13 J Z
Chlorobenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,4-Dioxane	ug/kg	14 U	15 U	16 U	--	19 U	17 U	--	17 U	16 U	--	14 U
Dibromochloromethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Tetrachloroethene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
sec-Butylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,3-Dichloropropane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
cis-1,2-Dichloroethene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
trans-1,2-Dichloroethene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Methyl tert-Butyl Ether	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
m,p-Xylene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Carbon tetrachloride	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,1-Dichloropropene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
2-Hexanone	ug/kg	8.7 U	9.6 U	8.1 U	--	9.2 U	8.6 U	--	9.3 UJ C	9.1 UJ C	--	7.7 U
2,2-Dichloropropane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Acetone	ug/kg	8.7 U B	9.6 U B	8.1 U B	--	9.2 U B	8.6 U B	--	9.3 UJ B, C	9.1 UJ B, C	--	11
Chloroform	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Benzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,1,1-Trichloroethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Bromomethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Chloromethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Dibromomethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Bromochloromethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Chloroethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Vinyl Chloride	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Methylene chloride	ug/kg	4.3 U B	4.8 U B	4.0 U B	--	4.6 U B	4.3 U B	--	4.6 U B	4.5 U B	--	3.9 U B
Bromoform	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Bromodichloromethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,1-Dichloroethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,1-Dichloroethene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Trichlorofluoromethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Dichlorodifluoromethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Freon 113a	ug/kg	5.4 U	6.0 U	5.1 U	--	5.8 U	5.4 U	--	5.8 U	5.7 U	--	4.8 U
Freon 113	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,2-Dichloropropane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
2-Butanone	ug/kg	8.7 U	9.6 U	8.1 U	--	9.2 U	8.6 U	--	9.3 UJ C	9.1 UJ C	--	7.7 U
1,1,2-Trichloroethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Trichloroethene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Chlorotrifluoroethene	ug/kg	5.4 U	6.0 U	5.1 U	--	5.8 U	5.4 U	--	5.8 U	5.7 U	--	4.8 U
1,2,3-Trichlorobenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
o-Xylene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
2-Chlorotoluene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,2,4-Trimethylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 UJ C	4.5 UJ C	--	3.9 U
1,2,3-Trichloropropane	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
tert-Butylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U
Isopropylbenzene	ug/kg	4.3 U	4.8 U	4.0 U	--	4.6 U	4.3 U	--	4.6 U	4.5 U	--	3.9 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA5DN-SS-0.0-0.5	SL-021-SA5DN-SB-4.0-5.0	SL-021-SA5DN-SB-19.5-20.5	SL-022-SA5DN-SS-0.0-0.5	SL-022-SA5DN-SB-4.0-5.0	SL-022-SA5DN-SB-15.0-16.0	SL-023-SA5DN-SS-0.0-0.5	SL-023-SA5DN-SB-4.0-5.0	SL-023-SA5DN-SB-20.0-21.0	SL-024-SA5DN-SS-0.0-0.5	SL-024-SA5DN-SB-4.0-5.0
Sample Date		05/23/2011	06/02/2011	06/02/2011	05/23/2011	06/06/2011	06/06/2011	05/23/2011	06/08/2011	06/08/2011	05/20/2011	06/07/2011
SDG		DE159	DE172	DE172	DE159	DE174	DE174	DE159	DE176	DE176	DE158	DE175
Start Depth		0	4	19.5	0	4	15	0	4	20	0	4
End Depth		0.5	5	20.5	0.5	5	16	0.5	5	21	0.5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	1.1 U	1.0 U	--	1 U	1 U	--	1 U	0.9 U	--	1.0 U
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	1.3 U	14 UJ FD	1.4 U	1.3 U	1.4 U	1.4 U	1.3 U	7.0 U	1.4 U
EFH (C15-C20)	mg/kg	3.9	1.4 U	1.3 U	6.4 J FD, Z	1.4 U	1.3 U	5.1	1.4 U	1.3 U	4.4 J Z	1.4 U
EFH (C21-C30)	mg/kg	20	3	1.3 U	60	3.1	1.3 U	11	0.47 J Z	1.3 U	38	1.4 U
EFH (C30-C40)	mg/kg	26	5.3	1.3 U	290	1.4 U B	1.3 U	40	1.6	0.70 J Z	99	1.4 U B
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	1.3 U	14 U	1.4 U	1.3 U	1.4 U	1.4 U B	1.3 U B	7.0 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2,4-Trichlorobenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,3-Dichlorobenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Hexachlorobutadiene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2-Dichlorobenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Isopropyltoluene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Ethylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Styrene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
cis-1,3-Dichloropropene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
trans-1,3-Dichloropropene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
N-Propylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
N-Butylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
4-Chlorotoluene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2-Dibromoethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2-Dichloroethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
4-Methyl-2-Pentanone	ug/kg	--	9.1 U	8.4 U	--	8.2 U	8.1 U	--	7.9 U	7.8 U	--	8.0 U
1,3,5-Trimethylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Bromobenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Toluene	ug/kg	--	0.1 J Z	4.2 U	--	4.1 U	0.15 J Z	--	4.0 U B	3.9 U B	--	4.0 U B
Chlorobenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
2-Chloroethyl Vinyl Ether	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,4-Dioxane	ug/kg	--	16 U	16 U	--	14 U	16 U	--	15 U	14 U	--	14 U
Dibromochloromethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Tetrachloroethene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
sec-Butylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,3-Dichloropropane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
cis-1,2-Dichloroethene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
trans-1,2-Dichloroethene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Methyl tert-Butyl Ether	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
m,p-Xylene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Carbon tetrachloride	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,1-Dichloropropene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
2-Hexanone	ug/kg	--	9.1 U	8.4 U	--	8.2 U	8.1 U	--	7.9 U	7.8 U	--	8.0 U
2,2-Dichloropropane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,1,1,2-Tetrachloroethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Acetone	ug/kg	--	9.1 U	8.4 U B	--	8.2 U	8.1 U B	--	7.9 U B	7.8 U B	--	8.0 U B
Chloroform	ug/kg	--	4.5 U	4.2 U	--	0.17 J Z	0.17 J Z	--	4.0 U	3.9 U	--	4.0 U
Benzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,1,1-Trichloroethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Bromomethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Chloromethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Dibromomethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Bromochloromethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Chloroethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Vinyl Chloride	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Methylene chloride	ug/kg	--	4.5 U B	4.2 U B	--	4.1 U B	4.0 U B	--	4.0 UJ B, L	3.9 UJ B, L	--	4.0 U B
Bromoform	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Bromodichloromethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,1-Dichloroethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,1-Dichloroethene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Trichlorofluoromethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Dichlorodifluoromethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Freon 113a	ug/kg	--	5.7 U	5.2 U	--	5.1 U	5.0 U	--	4.9 U	4.9 U	--	5.0 U
Freon 113	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2-Dichloropropane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
2-Butanone	ug/kg	--	9.1 U	8.4 U	--	8.2 U	8.1 U	--	7.9 U	7.8 U	--	8.0 U
1,1,2-Trichloroethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Trichloroethene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,1,2,2-Tetrachloroethane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Chlorotrifluoroethene	ug/kg	--	5.7 U	5.2 U	--	5.1 U	5.0 U	--	4.9 U	4.9 U	--	5.0 U
1,2,3-Trichlorobenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
o-Xylene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
2-Chlorotoluene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2,4-Trimethylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2-Dibromo-3-chloropropane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
1,2,3-Trichloropropane	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
tert-Butylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U
Isopropylbenzene	ug/kg	--	4.5 U	4.2 U	--	4.1 U	4.0 U	--	4.0 U	3.9 U	--	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-024-SA5DN-SB-19.0-20.0	SL-025-SA5DN-SS-0.0-0.5	SL-025-SA5DN-SB-4.0-5.0	SL-025-SA5DN-SB-23.0-24.0	SL-026-SA5DN-SS-0.0-0.5	SL-026-SA5DN-SB-4.0-5.0	SL-026-SA5DN-SB-17.0-18.0	SL-027-SA5DN-SS-0.0-0.5	SL-027-SA5DN-SB-4.0-5.0	SL-027-SA5DN-SB-14.0-15.0	SL-028-SA5DN-SS-0.0-0.5
Sample Date		06/07/2011	05/20/2011	06/08/2011	06/08/2011	05/20/2011	06/07/2011	06/07/2011	05/20/2011	06/03/2011	06/03/2011	05/20/2011
SDG		DE175	DE158	DE176	DE176	DE158	DE175	DE175	DE158	DE173	DE173	DE158
Start Depth		19	0	4	23	0	4	17	0	4	14	0
End Depth		20	0.5	5	24	0.5	5	18	0.5	5	15	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1.0 U	--	1.1 U	1.0 U	--	1 U	0.9 U	--	1.1 U	1.1 U	--
EFH (C12-C14)	mg/kg	1.3 U	1.4 U	1.4 U	1.3 U	6.9 U	2.9 U	6.5 U	7.0 U	1.4 U	1.3 U	7.0 U
EFH (C15-C20)	mg/kg	1.3 U	4.3	1.4 U	1.3 U	4.3 J Z	1.2 J Z	6.5 U	5.2 J Z	1.4 U	1.3 U	4.5 J Z
EFH (C21-C30)	mg/kg	1.3 U	18	1.4 U	1.3 U	27	20	37	29	3.8	5.1	39
EFH (C30-C40)	mg/kg	1.3 U	23	1.2 J Z	0.49 J Z	85	36	170	140	6.4	8.3	130
EFH (C8-C11)	mg/kg	1.3 U	1.4 U	1.4 U B	1.3 U B	6.9 U	2.9 U	6.5 U	7.0 U	1.4 U	1.3 U	7.0 U
1,4-Dichlorobenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,2,4-Trichlorobenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,3-Dichlorobenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Hexachlorobutadiene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,2-Dichlorobenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Isopropyltoluene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Ethylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Styrene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
cis-1,3-Dichloropropene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
trans-1,3-Dichloropropene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
N-Propylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
N-Butylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
4-Chlorotoluene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,2-Dibromoethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,2-Dichloroethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
4-Methyl-2-Pentanone	ug/kg	7.4 U	--	7.9 U	8.6 U	--	8.2 U	8.1 U	--	8.4 UJ C	8.4 UJ C	--
1,3,5-Trimethylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Bromobenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Toluene	ug/kg	3.7 U B	--	3.9 U B	4.3 U B	--	4.1 U B	4.0 U B	--	4.2 U	0.09 J Z	--
Chlorobenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
2-Chloroethyl Vinyl Ether	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,4-Dioxane	ug/kg	15 U	--	15 U	14 U	--	15 U	14 U	--	15 U	15 U	--
Dibromochloromethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Tetrachloroethene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
sec-Butylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,3-Dichloropropane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
cis-1,2-Dichloroethene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
trans-1,2-Dichloroethene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Methyl tert-Butyl Ether	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
m,p-Xylene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Carbon tetrachloride	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,1-Dichloropropene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
2-Hexanone	ug/kg	7.4 U	--	7.9 U	8.6 U	--	8.2 U	8.1 U	--	8.4 UJ C	8.4 UJ C	--
2,2-Dichloropropane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,1,1,2-Tetrachloroethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Acetone	ug/kg	7.4 U B	--	7.9 U B	8.6 U B	--	8.2 U B	8.1 U B	--	8.4 UJ B, C	8.4 UJ B, C	--
Chloroform	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Benzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,1,1-Trichloroethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Bromomethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Chloromethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Dibromomethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Bromochloromethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Chloroethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Vinyl Chloride	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Methylene chloride	ug/kg	3.7 U B	--	3.9 UJ B, L	4.3 UJ B, L	--	4.1 U B	4.0 U B	--	4.2 U B	4.2 U B	--
Bromoform	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Bromodichloromethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,1-Dichloroethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,1-Dichloroethene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Trichlorofluoromethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Dichlorodifluoromethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Freon 113a	ug/kg	4.6 U	--	4.9 U	5.4 U	--	5.1 U	5.1 U	--	5.2 U	5.3 U	--
Freon 113	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,2-Dichloropropane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
2-Butanone	ug/kg	7.4 U	--	7.9 U	8.6 U	--	8.2 U	8.1 U	--	8.4 UJ C	8.4 UJ C	--
1,1,2-Trichloroethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Trichloroethene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,1,2,2-Tetrachloroethane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Chlorotrifluoroethene	ug/kg	4.6 U	--	4.9 U	5.4 U	--	5.1 U	5.1 U	--	5.2 U	5.3 U	--
1,2,3-Trichlorobenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
o-Xylene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
2-Chlorotoluene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,2,4-Trimethylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
1,2-Dibromo-3-chloropropane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 UJ C	4.2 UJ C	--
1,2,3-Trichloropropane	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
tert-Butylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--
Isopropylbenzene	ug/kg	3.7 U	--	3.9 U	4.3 U	--	4.1 U	4.0 U	--	4.2 U	4.2 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-028-SA5DN-SB-4.0-5.0	SL-028-SA5DN-SB-11.5-12.5	SL-029-SA5DN-SS-0.0-0.5	SL-029-SA5DN-SB-4.0-5.0	SL-030-SA5DN-SS-0.0-0.5	SL-030-SA5DN-SB-4.0-5.0	SL-031-SA5DN-SS-0.0-0.5	SL-031-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SS-0.0-0.5	SL-032-SA5DN-SB-4.0-5.0	SL-032-SA5DN-SB-10.0-11.0
Sample Date		06/08/2011	06/08/2011	05/20/2011	06/15/2011	05/19/2011	06/15/2011	05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011
SDG		DE176	DE176	DE158	DE181	DE157	DE181	DE157	DE181	DE157	DE180	DE180
Start Depth		4	11.5	0	4	0	4	0	4	0	4	10
End Depth		5	12.5	0.5	5	0.5	5	0.5	5	0.5	5	11
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1 U	1.1 U	--	1.1 U	--	1 U	--	1.0 U	--	1 U	0.9 U
EFH (C12-C14)	mg/kg	1.4 U	1.3 U	7.0 U	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U	6.7 U	1.4 U	1.3 U
EFH (C15-C20)	mg/kg	0.57 J Z	3	5.9 J Z	1.4 U	4.9 J Z	1.4 U	1.5	1.4 U	4.9 J Z	1.4 U	1.3 U
EFH (C21-C30)	mg/kg	5.6	24	37	1.4 U	27	1.4 UJ FD	5.1	1.4 U	31	1.4 U	1.3 U
EFH (C30-C40)	mg/kg	16	56	140	1.4 U	86	1.4 U	20	1.4 U	120	1.4 U	1.3 U
EFH (C8-C11)	mg/kg	1.4 U B	1.3 U B	7.0 U	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U	6.7 U	1.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2,4-Trichlorobenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,3-Dichlorobenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Hexachlorobutadiene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2-Dichlorobenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Isopropyltoluene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Ethylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Styrene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
cis-1,3-Dichloropropene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
trans-1,3-Dichloropropene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
N-Propylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
N-Butylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
4-Chlorotoluene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2-Dibromoethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2-Dichloroethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
4-Methyl-2-Pentanone	ug/kg	8.1 U	9.1 U	--	8.3 U	--	7.9 U	--	8.6 U	--	8.2 U	7.5 U
1,3,5-Trimethylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Bromobenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Toluene	ug/kg	4.0 U B	4.5 U B	--	0.1 J Z	--	0.10 J Z	--	0.10 J Z	--	0.31 J Z	0.29 J Z
Chlorobenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
2-Chloroethyl Vinyl Ether	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,4-Dioxane	ug/kg	15 U	17 U	--	14 U	--	15 U	--	15 U	--	14 U	14 U
Dibromochloromethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Tetrachloroethene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
sec-Butylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,3-Dichloropropane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
cis-1,2-Dichloroethene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
trans-1,2-Dichloroethene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Methyl tert-Butyl Ether	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
m,p-Xylene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Carbon tetrachloride	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,1-Dichloropropene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
2-Hexanone	ug/kg	8.1 U	9.1 U	--	8.3 U	--	7.9 U	--	8.6 U	--	8.2 U	7.5 U
2,2-Dichloropropane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Acetone	ug/kg	8.1 U	9.1 U B	--	8.7	--	8.1 J FD	--	10	--	8.2 U B	7.5 U B
Chloroform	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Benzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,1,1-Trichloroethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Bromomethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Chloromethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Dibromomethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Bromochloromethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Chloroethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Vinyl Chloride	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Methylene chloride	ug/kg	4.0 UJ B, L	4.5 UJ B, L	--	4.1 U B	--	4.0 UJ B, FD	--	4.3 U B	--	4.1 U B	3.7 U B
Bromoform	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Bromodichloromethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,1-Dichloroethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,1-Dichloroethene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Trichlorofluoromethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Dichlorodifluoromethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Freon 113a	ug/kg	5.0 U	5.7 U	--	5.2 U	--	5.0 U	--	5.4 U	--	5.1 U	4.7 U
Freon 113	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2-Dichloropropane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
2-Butanone	ug/kg	8.1 U	9.1 U	--	8.3 U	--	7.9 U	--	8.6 U	--	8.2 U	7.5 U
1,1,2-Trichloroethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Trichloroethene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Chlorotrifluoroethene	ug/kg	5.0 U	5.7 U	--	5.2 U	--	5.0 UJ Q	--	5.4 U	--	5.1 U	4.7 U
1,2,3-Trichlorobenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
o-Xylene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
2-Chlorotoluene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2,4-Trimethylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2-Dibromo-3-chloropropane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
1,2,3-Trichloropropane	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
tert-Butylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U
Isopropylbenzene	ug/kg	4.0 U	4.5 U	--	4.1 U	--	4.0 U	--	4.3 U	--	4.1 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-033-SA5DN-SS-0.0-0.5	SL-033-SA5DN-SB-4.0-5.0	SL-033-SA5DN-SB-11.0-12.0	SL-034-SA5DN-SS-0.0-0.5	SL-034-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SS-0.0-0.5	SL-035-SA5DN-SB-4.0-5.0	SL-035-SA5DN-SB-9.5-10.5	SL-036-SA5DN-SS-0.0-0.5	SL-036-SA5DN-SB-4.0-5.0	SL-036-SA5DN-SB-9.0-10.0
Sample Date		05/19/2011	06/14/2011	06/14/2011	05/19/2011	06/15/2011	05/19/2011	06/14/2011	06/14/2011	05/20/2011	06/07/2011	06/07/2011
SDG		DE157	DE180	DE180	DE157	DE181	DE157	DE180	DE180	DE158	DE175	DE175
Start Depth		0	4	11	0	4	0	4	9.5	0	4	9
End Depth		0.5	5	12	0.5	5	0.5	5	10.5	0.5	5	10
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	1 U	0.9 U	--	1.0 U	--	1.1 U	1 U	--	1.0 U	1 U
EFH (C12-C14)	mg/kg	14 U	1.4 U	1.3 U	26 U	1.4 U	1.4 U	1.4 U	1.3 U	2.7 U	1.4 U	1.4 U
EFH (C15-C20)	mg/kg	6.2 J Z	1.4 U	1.3 U	26 U	1.2 J Z	3.7	1.4 U	1.3 U	4.6	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	25	11 J FD	1.6	73	20	4.5	1.4 U	1.3 U	21	1.4 U	1.4 U B
EFH (C30-C40)	mg/kg	160	25 J FD	3	440	35	21	0.47 J Z	1.3 U	68	1.4 U B	1.4 U B
EFH (C8-C11)	mg/kg	14 U	0.54 J FD, Q, Z	1.3 U	26 U	0.50 J Z	1.4 U	1.4 U	1.3 U	2.7 U	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,3-Dichlorobenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Hexachlorobutadiene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2-Dichlorobenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Isopropyltoluene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Ethylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Styrene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
N-Propylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
N-Butylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
4-Chlorotoluene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2-Dibromoethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2-Dichloroethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	--	7.9 U	8.0 U	--	7.9 U	--	7.9 U	8.0 U	--	8.2 U	8.6 U
1,3,5-Trimethylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Bromobenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Toluene	ug/kg	--	0.24 J Z	0.35 J Z	--	0.09 J Z	--	0.47 J Z	0.45 J Z	--	4.1 U B	4.3 U B
Chlorobenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
2-Chloroethyl Vinyl Ether	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,4-Dioxane	ug/kg	--	14 U	14 U	--	16 U	--	15 U	14 U	--	17 U	15 U
Dibromochloromethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Tetrachloroethene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
sec-Butylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,3-Dichloropropane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
trans-1,2-Dichloroethene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Methyl tert-Butyl Ether	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
m,p-Xylene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Carbon tetrachloride	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,1-Dichloropropene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
2-Hexanone	ug/kg	--	7.9 U	8.0 U	--	7.9 U	--	7.9 U	8.0 U	--	8.2 U	8.6 U
2,2-Dichloropropane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,1,1,2-Tetrachloroethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Acetone	ug/kg	--	7.9 UJ FD	8.0 U B	--	8.7	--	7.9 U B	8.0 U B	--	8.2 U B	8.6 U B
Chloroform	ug/kg	--	3.9 UJ FD	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Benzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,1,1-Trichloroethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Bromomethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Chloromethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Dibromomethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Bromochloromethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Chloroethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Vinyl Chloride	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Methylene chloride	ug/kg	--	3.9 UJ B, FD, Q	4.0 U B	--	3.9 U B	--	4.0 U B	4.0 U B	--	4.1 U B	4.3 U B
Bromoform	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Bromodichloromethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,1-Dichloroethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,1-Dichloroethene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Trichlorofluoromethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Dichlorodifluoromethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Freon 113a	ug/kg	--	4.9 U	5.0 U	--	4.9 U	--	4.9 U	5.0 U	--	5.1 U	5.4 U
Freon 113	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2-Dichloropropane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
2-Butanone	ug/kg	--	7.9 U	8.0 U	--	7.9 U	--	7.9 U	8.0 U	--	8.2 U	8.6 U
1,1,2-Trichloroethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Trichloroethene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Chlorotrifluoroethene	ug/kg	--	4.9 UJ Q	5.0 U	--	4.9 U	--	4.9 U	5.0 U	--	5.1 U	5.4 U
1,2,3-Trichlorobenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
o-Xylene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
2-Chlorotoluene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2,4-Trimethylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2-Dibromo-3-chloropropane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
1,2,3-Trichloropropane	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
tert-Butylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U
Isopropylbenzene	ug/kg	--	3.9 U	4.0 U	--	3.9 U	--	4.0 U	4.0 U	--	4.1 U	4.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-037-SA5DN-SS-0.0-0.5	SL-037-SA5DN-SB-4.0-5.0	SL-037-SA5DN-SB-11.5-12.5	SL-038-SA5DN-SS-0.0-0.5	SL-038-SA5DN-SB-4.0-5.0	SL-038-SA5DN-SB-10.5-11.5	SL-039-SA5DN-SS-0.0-0.5	SL-039-SA5DN-SB-4.0-5.0	SL-039-SA5DN-SB-11.5-12.5	SL-040-SA5DN-SS-0.0-0.5	SL-040-SA5DN-SB-4.0-5.0
Sample Date		05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011	06/09/2011	05/20/2011	06/09/2011
SDG		DE158	DE177	DE177	DE158	DE177	DE177	DE158	DE177	DE177	DE158	DE177
Start Depth		0	4	11.5	0	4	10.5	0	4	11.5	0	4
End Depth		0.5	5	12.5	0.5	5	11.5	0.5	5	12.5	0.5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	1.0 U	0.9 U	--	1.0 U	0.9 U	--	1.0 U	1 U	--	1.0 U
EFH (C12-C14)	mg/kg	6.9 U	1.5 U	1.3 U	2.8 U	14 U	1.3 U	7.0 U	7.0 U	14 U	7.0 U	7.0 U
EFH (C15-C20)	mg/kg	6.1 J Z	1.5 U	1.3 U	5	14 U	1.3 U	8.7	7.0 U	14 U	6.8 J Z	7.0 U
EFH (C21-C30)	mg/kg	41	2.2	0.62 J Z	27	88	0.49 J Z	29	18	100	49	27
EFH (C30-C40)	mg/kg	150	4.6	1.3 U	88	200	0.59 J Z	170	7.0 U B	300	130	66
EFH (C8-C11)	mg/kg	6.9 U	1.5 U	1.3 U	2.8 U	14 U	1.3 U	7.0 U	7.0 U	14 U	7.0 U	7.0 U
1,4-Dichlorobenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2,4-Trichlorobenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,3-Dichlorobenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Hexachlorobutadiene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2-Dichlorobenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Isopropyltoluene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Ethylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Styrene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
cis-1,3-Dichloropropene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
trans-1,3-Dichloropropene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
N-Propylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
N-Butylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
4-Chlorotoluene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2-Dibromoethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2-Dichloroethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
4-Methyl-2-Pentanone	ug/kg	--	8.3 U	7.8 U	--	8.3 U	7.8 U	--	8.5 U	7.8 U	--	8.0 U
1,3,5-Trimethylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Bromobenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Toluene	ug/kg	--	0.15 J Z	0.15 J Z	--	0.13 J Z	0.15 J Z	--	0.13 J Z	0.15 J Z	--	0.17 J Z
Chlorobenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
2-Chloroethyl Vinyl Ether	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,4-Dioxane	ug/kg	--	16 U	14 U	--	20 U	14 U	--	15 U	14 U	--	15 U
Dibromochloromethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Tetrachloroethene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
sec-Butylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,3-Dichloropropane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
cis-1,2-Dichloroethene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
trans-1,2-Dichloroethene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Methyl tert-Butyl Ether	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
m,p-Xylene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Carbon tetrachloride	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,1-Dichloropropene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
2-Hexanone	ug/kg	--	8.3 U	7.8 U	--	8.3 U	7.8 U	--	8.5 U	7.8 U	--	8.0 U
2,2-Dichloropropane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,1,1,2-Tetrachloroethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Acetone	ug/kg	--	8.3 U	7.8 U	--	8.3 U	7.8 U	--	8.5 U	7.8 U	--	8.0 U
Chloroform	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Benzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,1,1-Trichloroethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Bromomethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Chloromethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Dibromomethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Bromochloromethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Chloroethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Vinyl Chloride	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Methylene chloride	ug/kg	--	4.1 UJ B, L	3.9 UJ B, L	--	4.1 UJ B, L	3.9 UJ B, L	--	4.2 UJ B, L	3.9 UJ B, L	--	4.0 UJ B, L
Bromoform	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Bromodichloromethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,1-Dichloroethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,1-Dichloroethene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Trichlorofluoromethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Dichlorodifluoromethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Freon 113a	ug/kg	--	5.2 U	4.9 U	--	5.2 U	4.9 U	--	5.3 U	4.9 U	--	5.0 U
Freon 113	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2-Dichloropropane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
2-Butanone	ug/kg	--	8.3 U	7.8 U	--	8.3 U	7.8 U	--	8.5 U	7.8 U	--	8.0 U
1,1,2-Trichloroethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Trichloroethene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,1,2,2-Tetrachloroethane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Chlorotrifluoroethene	ug/kg	--	5.2 U	4.9 U	--	5.2 U	4.9 U	--	5.3 U	4.9 U	--	5.0 U
1,2,3-Trichlorobenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
o-Xylene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
2-Chlorotoluene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2,4-Trimethylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2-Dibromo-3-chloropropane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
1,2,3-Trichloropropane	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
tert-Butylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U
Isopropylbenzene	ug/kg	--	4.1 U	3.9 U	--	4.1 U	3.9 U	--	4.2 U	3.9 U	--	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-040-SA5DN-SB-10.5-11.5	SL-041-SA5DN-SS-0.0-0.5	SL-041-SA5DN-SB-4.0-5.0	SL-041-SA5DN-SB-9.0-10.0	SL-042-SA5DN-SS-0.0-0.5	SL-042-SA5DN-SB-4.0-5.0	SL-042-SA5DN-SB-9.0-10.0	SL-043-SA5DN-SS-0.0-0.5	SL-043-SA5DN-SB-4.0-5.0	SL-043-SA5DN-SB-9.0-10.0	SL-044-SA5DN-SS-0.0-0.5
Sample Date		06/09/2011	05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011	05/20/2011
SDG		DE177	DE157	DE178	DE178	DE157	DE179	DE179	DE157	DE179	DE179	DE158
Start Depth		10.5	0	4	9	0	4	9	0	4	9	0
End Depth		11.5	0.5	5	10	0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1.1 U	--	1.0 U	1.1 U	--	1.0 U	1 U	--	1 U	1 U	--
EFH (C12-C14)	mg/kg	1.3 U	14 U	2.9 U	1.4 U	11 U	1.4 U	1.3 U	28 U	2.7 U	1.4 U	6.8 U
EFH (C15-C20)	mg/kg	1.3 U	6.2 J Z	1.2 J Z	1.4 U	6.9 J Z	0.60 J Z	1.3 U	28 UJ FD	1.6 J Z	1.4 U	6.5 J Z
EFH (C21-C30)	mg/kg	2.6	58	24	3.2	48	6.4	1.3 U	67	29	1.3 J Z	33
EFH (C30-C40)	mg/kg	4.5	250	55	1.4 U B	170	16	0.84 J Z	370	46	0.52 J Z	100
EFH (C8-C11)	mg/kg	1.3 U	14 U	2.9 U	1.4 U	11 U	1.4 U	1.3 U	28 U	2.7 U	1.4 U	6.8 U
1,4-Dichlorobenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2,4-Trichlorobenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,3-Dichlorobenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Hexachlorobutadiene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2-Dichlorobenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Isopropyltoluene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Ethylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Styrene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
cis-1,3-Dichloropropene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
trans-1,3-Dichloropropene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
N-Propylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
N-Butylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
4-Chlorotoluene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2-Dibromoethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2-Dichloroethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
4-Methyl-2-Pentanone	ug/kg	8.4 U	--	8.9 U	8.7 U	--	8.0 U	7.6 U	--	8.2 U	7.8 U	--
1,3,5-Trimethylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Bromobenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Toluene	ug/kg	0.22 J Z	--	0.11 J Z	0.11 J Z	--	0.23 J Z	0.17 J Z	--	0.23 J Z	0.19 J Z	--
Chlorobenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,4-Dioxane	ug/kg	14 U	--	15 U	14 U	--	14 U	16 U	--	15 U	15 U	--
Dibromochloromethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Tetrachloroethene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
sec-Butylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,3-Dichloropropane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
cis-1,2-Dichloroethene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
trans-1,2-Dichloroethene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Methyl tert-Butyl Ether	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
m,p-Xylene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Carbon tetrachloride	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,1-Dichloropropene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
2-Hexanone	ug/kg	8.4 U	--	8.9 U	8.7 U	--	8.0 U	7.6 U	--	8.2 U	7.8 U	--
2,2-Dichloropropane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Acetone	ug/kg	8.4 U B	--	8.9 U	8.7 U	--	9.7	8.7	--	8.2 U	7.8 U	--
Chloroform	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Benzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,1,1-Trichloroethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Bromomethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Chloromethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Dibromomethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Bromochloromethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Chloroethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Vinyl Chloride	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Methylene chloride	ug/kg	4.2 UJ B, L	--	4.5 UJ B, L	4.4 UJ B, L	--	8.5	3.8 U B	--	4.1 U B	3.9 U B	--
Bromoform	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Bromodichloromethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,1-Dichloroethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,1-Dichloroethene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Trichlorofluoromethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Dichlorodifluoromethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Freon 113a	ug/kg	5.3 U	--	5.6 U	5.5 U	--	5.0 U	4.8 U	--	5.2 U	4.9 U	--
Freon 113	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2-Dichloropropane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
2-Butanone	ug/kg	8.4 U	--	8.9 U	8.7 U	--	8.0 U	7.6 U	--	8.2 U	7.8 U	--
1,1,2-Trichloroethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Trichloroethene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Chlorotrifluoroethene	ug/kg	5.3 U	--	5.6 U	5.5 U	--	5.0 U	4.8 U	--	5.2 U	4.9 U	--
1,2,3-Trichlorobenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
o-Xylene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
2-Chlorotoluene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2,4-Trimethylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
1,2,3-Trichloropropane	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
tert-Butylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--
Isopropylbenzene	ug/kg	4.2 U	--	4.5 U	4.4 U	--	4.0 U	3.8 U	--	4.1 U	3.9 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-044-SA5DN-SB-4.0-5.0	SL-044-SA5DN-SB-12.0-13.0	SL-045-SA5DN-SS-0.0-0.5	SL-045-SA5DN-SB-4.0-5.0	SL-045-SA5DN-SB-9.0-10.0	SL-046-SA5DN-SS-0.0-0.5	SL-046-SA5DN-SB-4.0-5.0	SL-046-SA5DN-SB-9.0-10.0	SL-047-SA5DN-SS-0.0-0.5	SL-047-SA5DN-SB-4.0-5.0	SL-047-SA5DN-SB-10.0-11.0
Sample Date		06/14/2011	06/14/2011	05/19/2011	06/10/2011	06/10/2011	05/19/2011	06/13/2011	06/13/2011	05/19/2011	06/13/2011	06/13/2011
SDG		DE180	DE180	DE157	DE178	DE178	DE157	DE179	DE179	DE157	DE179	DE179
Start Depth		4	12	0	4	9	0	4	9	0	4	10
End Depth		5	13	0.5	5	10	0.5	5	10	0.5	5	11
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1 U	1 U	--	1.0 U	1 U	--	0.2 J Z	1 U	--	0.3 J Z	1.0 U
EFH (C12-C14)	mg/kg	1.4 U	1.3 U	14 U	1.4 U	1.4 U	35 U	1.4 U	1.4 U	33 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	1.4 U	1.3 U	7.5 J Z	1.4 U	1.4 U	14 J Z	1.5	1.4 U	33 U	1.3 U	1.3 U
EFH (C21-C30)	mg/kg	1.4 U	7	67	4.4	1.7	220	9.1	2.6	120	2.1	1.3 U
EFH (C30-C40)	mg/kg	0.49 J Z	12	220	12	1.4 U B	640	14	5.3	490	3.8	1.3 U
EFH (C8-C11)	mg/kg	1.4 U	1.3 U	14 U	1.4 U	1.4 U	35 U	1.4 U	1.4 U	33 U	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2,4-Trichlorobenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,3-Dichlorobenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Hexachlorobutadiene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2-Dichlorobenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Isopropyltoluene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Ethylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Styrene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
cis-1,3-Dichloropropene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
trans-1,3-Dichloropropene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
N-Propylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
N-Butylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
4-Chlorotoluene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2-Dibromoethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2-Dichloroethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
4-Methyl-2-Pentanone	ug/kg	8.2 U	8.7 U	--	8.1 U	8.3 U	--	8.0 U	8.4 U	--	8.5 U	7.9 U
1,3,5-Trimethylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Bromobenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Toluene	ug/kg	0.33 J Z	0.42 J Z	--	0.09 J Z	4.2 U	--	0.20 J Z	0.18 J Z	--	0.21 J Z	0.21 J Z
Chlorobenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,4-Dioxane	ug/kg	15 U	17 U	--	15 U	15 U	--	16 U	14 U	--	15 U	16 U
Dibromochloromethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Tetrachloroethene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
sec-Butylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,3-Dichloropropane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
trans-1,2-Dichloroethene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Methyl tert-Butyl Ether	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
m,p-Xylene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Carbon tetrachloride	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,1-Dichloropropene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
2-Hexanone	ug/kg	8.2 U	8.7 U	--	8.1 U	8.3 U	--	8.0 U	8.4 U	--	8.5 U	7.9 U
2,2-Dichloropropane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Acetone	ug/kg	8.2 U B	8.7 U B	--	8.1 U	8.3 U B	--	9.3	8.4 U	--	8.5 U	7.9 U
Chloroform	ug/kg	4.1 U	0.14 J Z	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Benzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,1,1-Trichloroethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Bromomethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Chloromethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Dibromomethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Bromochloromethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Chloroethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Vinyl Chloride	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Methylene chloride	ug/kg	4.1 U B	10	--	4.1 UJ B, L	4.2 UJ B, L	--	4.0 U B	4.2 U B	--	4.3 U B	4.0 U B
Bromoform	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Bromodichloromethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,1-Dichloroethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,1-Dichloroethene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Trichlorofluoromethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Dichlorodifluoromethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Freon 113a	ug/kg	5.1 U	5.4 U	--	5.1 U	5.2 U	--	5.0 U	5.2 U	--	5.3 U	4.9 U
Freon 113	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2-Dichloropropane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
2-Butanone	ug/kg	8.2 U	8.7 U	--	8.1 U	8.3 U	--	8.0 U	8.4 U	--	8.5 U	7.9 U
1,1,2-Trichloroethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Trichloroethene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Chlorotrifluoroethene	ug/kg	5.1 U	5.4 U	--	5.1 U	5.2 U	--	5.0 U	5.2 U	--	5.3 U	4.9 U
1,2,3-Trichlorobenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
o-Xylene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
2-Chlorotoluene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2,4-Trimethylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
1,2,3-Trichloropropane	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
tert-Butylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U
Isopropylbenzene	ug/kg	4.1 U	4.3 U	--	4.1 U	4.2 U	--	4.0 U	4.2 U	--	4.3 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-048-SA5DN-SB-4.0-5.0	SL-049-SA5DN-SB-4.0-5.0	SL-050-SA5DN-SB-4.0-5.0	SL-051-SA5DN-SS-0.0-0.5	SL-051-SA5DN-SB-4.0-5.0	SL-051-SA5DN-SB-14.0-15.0	SL-052-SA5DN-SB-4.0-5.0	SL-053-SA5DN-SB-4.0-5.0	SL-054-SA5DN-SB-4.0-5.0	SL-055-SA5DN-SB-4.0-5.0	SL-056-SA5DN-SB-4.0-5.0
Sample Date		06/10/2011	06/10/2011	06/09/2011	05/20/2011	06/08/2011	06/08/2011	06/03/2011	06/06/2011	06/13/2011	06/15/2011	06/15/2011
SDG		DE178	DE178	DE177	DE158	DE176	DE176	DE173	DE174	DE179	DE181	DE181
Start Depth		4	4	4	0	4	14	4	4	4	4	4
End Depth		5	5	5	0.5	5	15	5	5	5	5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	--	--	1 U	1.0 U	--	--	--	--	--
EFH (C12-C14)	mg/kg	--	--	--	66 U	1.4 U	1.4 U	--	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	33 J Z	0.55 J Z	0.50 J Z	--	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	390	2.8	4.3	--	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	1200	6.7	9.2	--	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	66 U	1.4 U B	1.4 U B	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,2,4-Trichlorobenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,3-Dichlorobenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Hexachlorobutadiene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,2-Dichlorobenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Isopropyltoluene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Ethylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Styrene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
cis-1,3-Dichloropropene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
trans-1,3-Dichloropropene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
N-Propylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
N-Butylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
4-Chlorotoluene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,2-Dibromoethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,2-Dichloroethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
4-Methyl-2-Pentanone	ug/kg	8.5 U	8.3 U	8.4 U	--	8.7 U	7.9 U	9.0 UJ C	9.6 U	8.0 U	8.8 U	8.5 U
1,3,5-Trimethylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Bromobenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Toluene	ug/kg	0.10 J Z	0.15 J Z	0.17 J Z	--	4.4 U B	4.0 U B	4.5 U	0.15 J Z	0.23 J Z	0.1 J Z	0.1 J Z
Chlorobenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,4-Dioxane	ug/kg	14 U	15 U	15 U	--	15 U	15 U	18 U	15 U	15 U	15 U	17 U
Dibromochloromethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Tetrachloroethene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
sec-Butylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,3-Dichloropropane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
cis-1,2-Dichloroethene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
trans-1,2-Dichloroethene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Methyl tert-Butyl Ether	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
m,p-Xylene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Carbon tetrachloride	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,1-Dichloropropene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
2-Hexanone	ug/kg	8.5 U	8.3 U	8.4 U	--	8.7 U	7.9 U	9.0 UJ C	9.6 U	8.0 U	8.8 U	8.5 U
2,2-Dichloropropane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Acetone	ug/kg	8.5 U	8.3 U	8.4 U	--	8.7 U B	7.9 U B	9.0 UJ B, C	9.6 U B	8.0 U	8.8 U	8.5 U
Chloroform	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	0.19 J Z	4.0 U	4.4 U	4.2 U
Benzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,1,1-Trichloroethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Bromomethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Chloromethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Dibromomethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Bromochloromethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Chloroethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Vinyl Chloride	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Methylene chloride	ug/kg	4.2 UJ B, L	4.1 UJ B, L	4.2 UJ B, L	--	4.4 UJ B, L	4.0 UJ B, L	4.5 U B	4.8 U B	4.0 U B	4.4 U B	4.2 U B
Bromoform	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Bromodichloromethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,1-Dichloroethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,1-Dichloroethene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Trichlorofluoromethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Dichlorodifluoromethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Freon 113a	ug/kg	5.3 U	5.2 U	5.3 U	--	5.5 U	5.0 U	5.6 U	6.0 U	5.0 U	5.5 U	5.3 U
Freon 113	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,2-Dichloropropane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
2-Butanone	ug/kg	8.5 U	8.3 U	8.4 U	--	8.7 U	7.9 U	9.0 UJ C	9.6 U	8.0 U	8.8 U	8.5 U
1,1,2-Trichloroethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Trichloroethene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Chlorotrifluoroethene	ug/kg	5.3 U	5.2 U	5.3 U	--	5.5 U	5.0 U	5.6 U	6.0 U	5.0 U	5.5 U	5.3 U
1,2,3-Trichlorobenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
o-Xylene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
2-Chlorotoluene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,2,4-Trimethylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 UJ C	4.8 U	4.0 U	4.4 U	4.2 U
1,2,3-Trichloropropane	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
tert-Butylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U
Isopropylbenzene	ug/kg	4.2 U	4.1 U	4.2 U	--	4.4 U	4.0 U	4.5 U	4.8 U	4.0 U	4.4 U	4.2 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-057-SA5DN-SB-4.0-5.0	SL-058-SA5DN-SB-4.0-5.0	SL-059-SA5DN-SB-4.0-5.0	SL-061-SA5DN-SB-4.0-5.0	SL-062-SA5DN-SB-4.0-5.0	SL-064-SA5DN-SS-0.0-0.5	SL-064-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SS-0.0-0.5	SL-065-SA5DN-SB-4.0-5.0	SL-065-SA5DN-SB-7.0-8.0	SL-066-SA5DN-SS-0.0-0.5
Sample Date		06/16/2011	06/16/2011	06/16/2011	06/16/2011	06/16/2011	05/18/2011	05/20/2011	05/18/2011	05/20/2011	05/20/2011	05/17/2011
SDG		DE182	DE182	DE182	DE182	DE182	DE154	DE158	DE154	DE158	DE158	DE152
Start Depth		4	4	4	4	4	0	4	0	4	7	0
End Depth		5	5	5	5	5	0.5	5	0.5	5	8	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	1 U	--	1 U	0.9 U	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	6.9 U	1.4 U	14 U	1.4 U	1.3 U	2.6 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	4.1 J Z	1.4 U	6.2 J Z	1.4 U	1.3 U	1.9 J Z
EFH (C21-C30)	mg/kg	--	--	--	--	--	48	1.4 U	150	1.4 U	1.3 U	30
EFH (C30-C40)	mg/kg	--	--	--	--	--	240	1.4 U	490	1.4 U	1.3 U	91
EFH (C8-C11)	mg/kg	--	--	--	--	--	6.9 U	1.4 U	14 U	1.4 U	1.3 U	2.6 U
1,4-Dichlorobenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2,4-Trichlorobenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,3-Dichlorobenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Hexachlorobutadiene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2-Dichlorobenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Isopropyltoluene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Ethylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Styrene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
cis-1,3-Dichloropropene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
trans-1,3-Dichloropropene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
N-Propylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
N-Butylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
4-Chlorotoluene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2-Dibromoethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2-Dichloroethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
4-Methyl-2-Pentanone	ug/kg	7.4 U	8.1 U	7.6 U	7.9 U	8.4 U	--	8.6 UJ C	--	8.2 UJ C	8.2 UJ C	--
1,3,5-Trimethylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Bromobenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Toluene	ug/kg	0.08 J Z	0.14 J Z	0.11 J Z	0.1 J Z	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Chlorobenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
2-Chloroethyl Vinyl Ether	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,4-Dioxane	ug/kg	15 U	15 U	15 U	15 U	16 U	--	15 U	--	15 U	14 U	--
Dibromochloromethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Tetrachloroethene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
sec-Butylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,3-Dichloropropane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
cis-1,2-Dichloroethene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
trans-1,2-Dichloroethene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Methyl tert-Butyl Ether	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
m,p-Xylene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Carbon tetrachloride	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,1-Dichloropropene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
2-Hexanone	ug/kg	7.4 U	8.1 U	7.6 U	7.9 U	8.4 U	--	8.6 UJ C	--	8.2 UJ C	8.2 UJ C	--
2,2-Dichloropropane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,1,1,2-Tetrachloroethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Acetone	ug/kg	7.4 U	8.1 U B	7.6 U	7.9 U	8.4 U B	--	8.6 U B	--	8.2 U B	8.2 U B	--
Chloroform	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Benzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,1,1-Trichloroethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Bromomethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Chloromethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Dibromomethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Bromochloromethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Chloroethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Vinyl Chloride	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Methylene chloride	ug/kg	3.7 U B	4.1 U B	3.8 U B	3.9 U B	4.2 U B	--	4.3 U B	--	4.1 U B	4.1 U B	--
Bromoform	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Bromodichloromethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,1-Dichloroethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,1-Dichloroethene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Trichlorofluoromethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Dichlorodifluoromethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Freon 113a	ug/kg	4.6 U	5.1 U	4.8 U	4.9 U	5.2 U	--	5.4 UJ L	--	5.1 UJ L	5.1 UJ L	--
Freon 113	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2-Dichloropropane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
2-Butanone	ug/kg	7.4 U	8.1 U	7.6 U	7.9 U	8.4 U	--	8.6 U	--	8.2 U	8.2 U	--
1,1,2-Trichloroethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Trichloroethene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,1,2,2-Tetrachloroethane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Chlorotrifluoroethene	ug/kg	4.6 U	5.1 U	4.8 U	4.9 U	5.2 U	--	5.4 U	--	5.1 U	5.1 U	--
1,2,3-Trichlorobenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
o-Xylene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
2-Chlorotoluene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2,4-Trimethylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2-Dibromo-3-chloropropane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
1,2,3-Trichloropropane	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
tert-Butylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--
Isopropylbenzene	ug/kg	3.7 U	4.1 U	3.8 U	3.9 U	4.2 U	--	4.3 U	--	4.1 U	4.1 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-066-SA5DN-SB-4.0-5.0	SL-066-SA5DN-SB-9.0-10.0	SL-067-SA5DN-SS-0.0-0.5	SL-067-SA5DN-SB-4.0-5.0	SL-067-SA5DN-SB-9.0-10.0	SL-068-SA5DN-SB-4.0-5.0	SL-069-SA5DN-SB-4.0-5.0	SL-070-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-4.0-5.0	SL-073-SA5DN-SB-4.5	SL-074-SA5DN-SB-4.0-5.0
Sample Date		05/19/2011	05/19/2011	05/17/2011	05/19/2011	05/19/2011	05/17/2011	05/18/2011	05/18/2011	05/17/2011	06/20/2011	05/18/2011
SDG		DE156	DE156	DE152	DE156	DE156	DE153	DE155	DE155	DE153	DE184	DE155
Start Depth		4	9	0	4	9	4	4	4	4	4.5	4
End Depth		5	10	0.5	5	10	5	5	5	5	4.5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1.2 U	1.1 U	--	1.1 U	1.1 U	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.4 U	1.4 U	2.6 U	1.4 U	1.4 U	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.4 U	1.4 U	4	1.4 U	1.4 U	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.4 U	1.4 U	23	1.4 U	1.4 U	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	1.2 J Z	0.76 J Z	52	0.72 J Z	0.65 J Z	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	2.6 U	1.4 U	1.4 U	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2,4-Trichlorobenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,3-Dichlorobenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Hexachlorobutadiene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2-Dichlorobenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Isopropyltoluene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Ethylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Styrene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
cis-1,3-Dichloropropene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
trans-1,3-Dichloropropene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
N-Propylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
N-Butylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
4-Chlorotoluene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2-Dibromoethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2-Dichloroethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
4-Methyl-2-Pentanone	ug/kg	9.0 U	10 U	--	8.8 U	8.2 U	9.1 U	7.7 U	8.3 U	8.3 U	8.3 U	9.5 U
1,3,5-Trimethylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Bromobenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Toluene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	0.16 J Z	4.8 U
Chlorobenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
2-Chloroethyl Vinyl Ether	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,4-Dioxane	ug/kg	15 U	15 U	--	17 U	16 U	15 U	14 U	15 U	15 U	15 U	15 U
Dibromochloromethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Tetrachloroethene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
sec-Butylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,3-Dichloropropane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
cis-1,2-Dichloroethene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
trans-1,2-Dichloroethene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Methyl tert-Butyl Ether	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
m,p-Xylene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Carbon tetrachloride	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,1-Dichloropropene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
2-Hexanone	ug/kg	9.0 U	10 U	--	8.8 U	8.2 U	9.1 U	7.7 U	8.3 U	8.3 U	8.3 U	9.5 U
2,2-Dichloropropane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,1,1,2-Tetrachloroethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Acetone	ug/kg	9.5	12	--	10	8.9	9.1 U	9.9	10	8.3 U	8.3 U	10
Chloroform	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Benzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,1,1-Trichloroethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Bromomethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Chloromethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Dibromomethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Bromochloromethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Chloroethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Vinyl Chloride	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Methylene chloride	ug/kg	4.5 U B, F	5.2 U B, F	--	4.4 U B, F	4.1 U B, F	4.5 U B	3.9 U B	4.2 U B	4.1 U B	4.2 U B	4.8 U B
Bromoform	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Bromodichloromethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,1-Dichloroethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,1-Dichloroethene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Trichlorofluoromethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Dichlorodifluoromethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Freon 113a	ug/kg	5.6 UJ L	6.6 UJ L	--	5.5 UJ L	5.1 UJ L	5.7 U	4.8 UJ L	5.2 UJ L	5.2 U	5.2 U	6.0 UJ L
Freon 113	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2-Dichloropropane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
2-Butanone	ug/kg	9.0 U	10 U	--	8.8 U	8.2 U	9.1 U	7.7 U	8.3 U	8.3 U	8.3 U	9.5 U
1,1,2-Trichloroethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Trichloroethene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,1,2,2-Tetrachloroethane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Chlorotrifluoroethene	ug/kg	5.6 U	6.6 U	--	5.5 U	5.1 U	5.7 U	4.8 U	5.2 U	5.2 U	5.2 U	6.0 U
1,2,3-Trichlorobenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
o-Xylene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
2-Chlorotoluene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2,4-Trimethylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2-Dibromo-3-chloropropane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
1,2,3-Trichloropropane	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
tert-Butylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U
Isopropylbenzene	ug/kg	4.5 U	5.2 U	--	4.4 U	4.1 U	4.5 U	3.9 U	4.2 U	4.1 U	4.2 U	4.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-075-SA5DN-SB-4.0-5.0	SL-076-SA5DN-SB-4.0-5.0	SL-077-SA5DN-SB-4.0-5.0	SL-078-SA5DN-SB-4.0-5.0	SL-079-SA5DN-SB-4.0-5.0	SL-080-SA5DN-SB-4.0-5.0	SL-081-SA5DN-SB-4.0-5.0	SL-082-SA5DN-SB-4.0-5.0	SL-084-SA5DN-SB-4.0-5.0	SL-085-SA5DN-SB-2.5-3.5	SL-086-SA5DN-SS-0.0-0.5
Sample Date		05/23/2011	05/18/2011	06/27/2011	06/27/2011	05/19/2011	05/19/2011	05/23/2011	05/19/2011	05/23/2011	06/27/2011	05/18/2011
SDG		DE159	DE155	DE189	DE189	DE156	DE156	DE159	DE156	DE159	DE189	DE154
Start Depth		4	4	4	4	4	4	4	4	4	2.5	0
End Depth		5	5	5	5	5	5	5	5	5	3.5	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--	--	--	--	1.4 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--	--	--	--	3.4
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--	--	--	--	8.1
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--	--	--	--	20
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--	--	--	--	1.4 U
1,4-Dichlorobenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2,4-Trichlorobenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,3-Dichlorobenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Hexachlorobutadiene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2-Dichlorobenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Isopropyltoluene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Ethylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Styrene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
cis-1,3-Dichloropropene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
trans-1,3-Dichloropropene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
N-Propylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
N-Butylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
4-Chlorotoluene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2-Dibromoethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2-Dichloroethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
4-Methyl-2-Pentanone	ug/kg	8.3 U	8.2 U	8.6 U	8.2 U	8.2 U	9.6 U	8.3 U	8.7 U	8.3 U	8.2 U	--
1,3,5-Trimethylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Bromobenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Toluene	ug/kg	4.1 U	4.1 U	4.3 U	0.12 J Z	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	0.14 J Z	--
Chlorobenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,4-Dioxane	ug/kg	15 U	16 U	16 U	16 U	15 U	16 U	16 U	16 U	16 U	16 U	--
Dibromochloromethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Tetrachloroethene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
sec-Butylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,3-Dichloropropane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
cis-1,2-Dichloroethene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
trans-1,2-Dichloroethene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Methyl tert-Butyl Ether	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
m,p-Xylene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Carbon tetrachloride	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,1-Dichloropropene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
2-Hexanone	ug/kg	8.3 U	8.2 U	8.6 U	8.2 U	8.2 U	9.6 U	8.3 U	8.7 U	8.3 U	8.2 U	--
2,2-Dichloropropane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Acetone	ug/kg	8.3 U B	8.9	11	12	9.4	11	8.3 U B	11	8.3 U B, Z	11	--
Chloroform	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Benzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,1,1-Trichloroethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Bromomethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Chloromethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Dibromomethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Bromochloromethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Chloroethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Vinyl Chloride	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Methylene chloride	ug/kg	4.1 U B, Z	4.1 U B	16	11	4.1 U B, F	4.8 U B, F	4.2 U B, Z	4.3 U B, F	4.1 U B, Z	4.1 U B	--
Bromoform	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Bromodichloromethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,1-Dichloroethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,1-Dichloroethene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Trichlorofluoromethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Dichlorodifluoromethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Freon 113a	ug/kg	5.2 UJ L	5.1 UJ L	5.4 U	5.1 U	5.1 UJ L	6.0 UJ L	5.2 UJ L	5.4 UJ L	5.2 UJ L	5.1 U	--
Freon 113	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2-Dichloropropane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
2-Butanone	ug/kg	8.3 U	8.2 U	8.6 U	8.2 U	8.2 U	9.6 U	8.3 U	8.7 U	8.3 U	8.2 U	--
1,1,2-Trichloroethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Trichloroethene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Chlorotrifluoroethene	ug/kg	5.2 U	5.1 U	5.4 U	5.1 U	5.1 U	6.0 U	5.2 U	5.4 U	5.2 U	5.1 U	--
1,2,3-Trichlorobenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
o-Xylene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
2-Chlorotoluene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2,4-Trimethylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
1,2,3-Trichloropropane	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
tert-Butylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--
Isopropylbenzene	ug/kg	4.1 U	4.1 U	4.3 U	4.1 U	4.1 U	4.8 U	4.2 U	4.3 U	4.1 U	4.1 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-086-SA5DN-SB-4.0-5.0	SL-087-SA5DN-SS-0.0-0.5	SL-088-SA5DN-SB-4.0-5.0	SL-089-SA5DN-SS-0.0-0.5	SL-089-SA5DN-SB-4.0-5.0	SL-090-SA5DN-SS-0.0-0.5	SL-091-SA5DN-SB-4.0-5.0	SL-092-SA5DN-SB-4.0-5.0	SL-093-SA5DN-SB-4.0-5.0	SL-094-SA5DN-SB-4.0-5.0	SL-095-SA5DN-SB-4.0-5.0
Sample Date		05/20/2011	05/18/2011	05/20/2011	05/18/2011	05/23/2011	05/18/2011	06/24/2011	06/24/2011	06/20/2011	06/22/2011	06/22/2011
SDG		DE158	DE154	DE158	DE154	DE159	DE154	DE188	DE188	DE184	DE186	DE186
Start Depth		4	0	4	0	4	0	4	4	4	4	4
End Depth		5	0.5	5	0.5	5	0.5	5	5	5	5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1.0 U	--	--	--	1 U	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	1.4 U	13 U	--	1.4 U	1.3 U	15 U	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.4 U	10 J Z	--	3.6	1.3 U	5.0 J Z	--	--	--	--	--
EFH (C21-C30)	mg/kg	0.48 J Z	150	--	10	1.3 U	150	--	--	--	--	--
EFH (C30-C40)	mg/kg	1.4 U	480	--	28	0.44 J Z	460	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.4 U	13 U	--	1.4 U	1.3 U	15 U	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2,4-Trichlorobenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,3-Dichlorobenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Hexachlorobutadiene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2-Dichlorobenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Isopropyltoluene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Ethylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Styrene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
cis-1,3-Dichloropropene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
trans-1,3-Dichloropropene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
N-Propylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
N-Butylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
4-Chlorotoluene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2-Dibromoethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2-Dichloroethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
4-Methyl-2-Pentanone	ug/kg	9.0 UJ C	--	9.1 UJ C	--	7.5 U	--	8.4 U	7.7 U	8.7 U	8.0 U	7.9 U
1,3,5-Trimethylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Bromobenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Toluene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	0.11 J Z	3.8 UJ FD	0.11 J Z	4.0 U B	4.0 U B
Chlorobenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
2-Chloroethyl Vinyl Ether	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,4-Dioxane	ug/kg	16 U	--	20 U	--	14 U	--	15 U	16 U	15 U	14 U	14 U
Dibromochloromethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Tetrachloroethene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
sec-Butylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,3-Dichloropropane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
trans-1,2-Dichloroethene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Methyl tert-Butyl Ether	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
m,p-Xylene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Carbon tetrachloride	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,1-Dichloropropene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
2-Hexanone	ug/kg	9.0 UJ C	--	9.1 UJ C	--	7.5 U	--	8.4 U	7.7 U	8.7 U	8.0 U	7.9 U
2,2-Dichloropropane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,1,1,2-Tetrachloroethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Acetone	ug/kg	9.0 U B	--	9.1 U B	--	7.5 U B, Z	--	14	10	8.7 U B	9.3	8.2
Chloroform	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Benzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,1,1-Trichloroethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Bromomethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Chloromethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Dibromomethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Bromochloromethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Chloroethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Vinyl Chloride	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Methylene chloride	ug/kg	4.5 U B	--	4.6 U B	--	3.8 U B, Z	--	36	21 J Q	4.3 U B	4.0 U B, F	4.0 U B, F
Bromoform	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Bromodichloromethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,1-Dichloroethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,1-Dichloroethene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Trichlorofluoromethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Dichlorodifluoromethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Freon 113a	ug/kg	5.6 UJ L	--	5.7 UJ L	--	4.7 UJ L	--	5.2 U	4.8 U	5.4 U	5.0 U	5.0 U
Freon 113	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2-Dichloropropane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
2-Butanone	ug/kg	9.0 U	--	9.1 U	--	7.5 U	--	8.4 U	7.7 U	8.7 U	8.0 U	7.9 U
1,1,2-Trichloroethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Trichloroethene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,1,2,2-Tetrachloroethane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Chlorotrifluoroethene	ug/kg	5.6 U	--	5.7 U	--	4.7 U	--	5.2 U	4.8 U	5.4 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
o-Xylene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
2-Chlorotoluene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2,4-Trimethylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2-Dibromo-3-chloropropane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
1,2,3-Trichloropropane	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
tert-Butylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U
Isopropylbenzene	ug/kg	4.5 U	--	4.6 U	--	3.8 U	--	4.2 U	3.8 U	4.3 U	4.0 U	4.0 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-097-SA5DN-SS-0.0-0.5	SL-097-SA5DN-SB-4.0-5.0	SL-097-SA5DN-SB-8.5-9.5	SL-098-SA5DN-SS-0.0-0.5	SL-098-SA5DN-SB-4.0-5.0	SL-098-SA5DN-SB-7.0-8.0	SL-099-SA5DN-SS-0.0-0.5	SL-099-SA5DN-SB-4.0-5.0	SL-100-SA5DN-SB-3.0-4.0	SL-101-SA5DN-SB-2.5-3.5	SL-102-SA5DN-SS-0.0-0.5
Sample Date		05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011	06/21/2011	05/31/2011	06/21/2011	06/23/2011	06/23/2011	05/31/2011
SDG		DE169	DE185	DE185	DE169	DE185	DE185	DE169	DE185	DE187	DE187	DE169
Start Depth		0	4	8.5	0	4	7	0	4	3	2.5	0
End Depth		0.5	5	9.5	0.5	5	8	0.5	5	4	3.5	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	1.0 U	0.9 U	--	1.1 U	1.0 U	--	1 U	--	--	--
EFH (C12-C14)	mg/kg	13 U	1.4 U	1.3 U	6.7 U	2.8 U	1.4 U	6.3 U	1.4 U	--	--	2.6 U
EFH (C15-C20)	mg/kg	9.3 J Z	1.4 U	1.3 U	3.6 J Z	2.8 U	1.4 U	3.0 J Z	1.4 U	--	--	4.6
EFH (C21-C30)	mg/kg	51	1.4 U	1.3 U	40	9.5	1.4 U	35	1.4 U	--	--	26
EFH (C30-C40)	mg/kg	320	1.4 U	1.3 U	140	34	1.3 J Z	130	0.70 J Z	--	--	78
EFH (C8-C11)	mg/kg	13 U	1.4 U	1.3 U	6.7 U	2.8 U	1.4 U	6.3 U	1.4 U	--	--	2.6 U
1,4-Dichlorobenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2,4-Trichlorobenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,3-Dichlorobenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Hexachlorobutadiene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2-Dichlorobenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Isopropyltoluene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Ethylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Styrene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
cis-1,3-Dichloropropene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
trans-1,3-Dichloropropene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
N-Propylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
N-Butylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
4-Chlorotoluene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2-Dibromoethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2-Dichloroethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
4-Methyl-2-Pentanone	ug/kg	--	8.3 U	8.1 U	--	8.3 U	8.0 U	--	8.1 U	7.3 U	7.9 U	--
1,3,5-Trimethylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Bromobenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Toluene	ug/kg	--	0.09 J Z	0.08 J Z	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U B	--
Chlorobenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,4-Dioxane	ug/kg	--	15 U	15 U	--	14 U	15 U	--	15 U	14 U	15 U	--
Dibromochloromethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Tetrachloroethene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
sec-Butylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,3-Dichloropropane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
cis-1,2-Dichloroethene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
trans-1,2-Dichloroethene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Methyl tert-Butyl Ether	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
m,p-Xylene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Carbon tetrachloride	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,1-Dichloropropene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
2-Hexanone	ug/kg	--	8.3 U	8.1 U	--	8.3 U	8.0 U	--	8.1 U	7.3 U	7.9 U	--
2,2-Dichloropropane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Acetone	ug/kg	--	8.3 U B	8.1 U B	--	8.3 U B	8.0 U B	--	8.1 U	7.8	7.9	--
Chloroform	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Benzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,1,1-Trichloroethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Bromomethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Chloromethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Dibromomethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Bromochloromethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Chloroethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Vinyl Chloride	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Methylene chloride	ug/kg	--	4.1 U B	4.1 U B	--	4.2 U B	4.0 U B	--	4.0 U B	3.7 U B	3.9 U B	--
Bromoform	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Bromodichloromethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,1-Dichloroethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,1-Dichloroethene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Trichlorofluoromethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Dichlorodifluoromethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Freon 113a	ug/kg	--	5.2 U	5.1 U	--	5.2 U	5.0 U	--	5.0 U	4.6 U	4.9 U	--
Freon 113	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2-Dichloropropane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
2-Butanone	ug/kg	--	8.3 U	8.1 U	--	8.3 U	8.0 U	--	8.1 U	7.3 U	7.9 U	--
1,1,2-Trichloroethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Trichloroethene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Chlorotrifluoroethene	ug/kg	--	5.2 U	5.1 U	--	5.2 U	5.0 U	--	5.0 U	4.6 U	4.9 U	--
1,2,3-Trichlorobenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
o-Xylene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
2-Chlorotoluene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2,4-Trimethylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2-Dibromo-3-chloropropane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
1,2,3-Trichloropropane	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
tert-Butylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--
Isopropylbenzene	ug/kg	--	4.1 U	4.1 U	--	4.2 U	4.0 U	--	4.0 U	3.7 U	3.9 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-102-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SS-0.0-0.5	SL-103-SA5DN-SB-4.0-5.0	SL-103-SA5DN-SB-7.0-8.0	SL-104-SA5DN-SS-0.0-0.5	SL-104-SA5DN-SB-4.0-5.0	SL-105-SA5DN-SS-0.0-0.5	SL-105-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SS-0.0-0.5	SL-106-SA5DN-SB-4.0-5.0	SL-106-SA5DN-SB-9.0-10.0
Sample Date		06/23/2011	05/31/2011	06/24/2011	06/24/2011	05/31/2011	06/23/2011	06/01/2011	06/23/2011	06/01/2011	06/23/2011	06/23/2011
SDG		DE187	DE169	DE188	DE188	DE169	DE187	DE170	DE187	DE170	DE187	DE187
Start Depth		4	0	4	7	0	4	0	4	0	4	9
End Depth		5	0.5	5	8	0.5	5	0.5	5	0.5	5	10
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1.0 U	--	1.3 U	1 U	--	0.9 U	--	1.1 U	--	1 U	1 U
EFH (C12-C14)	mg/kg	1.3 U	2.6 U	1.3 U	1.4 U	13 U	1.3 U	6.4 U	1.3 U	6.4 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	1.3 U	3.5	0.90 J Q, Z	1.4 U	12 J Z	1.3 U	6.4 U	1.3 U	4.3 J Z	1.3 U	1.3 U
EFH (C21-C30)	mg/kg	1.3 U	17	7.5 J Q	1.4 U	150	1.3 U	22	1.3 U	24	1.3 U	1.3 U
EFH (C30-C40)	mg/kg	0.86 J Z	95	13	1.4 U B	330	0.70 J Z	77	0.99 J Z	98	0.74 J Z	0.76 J Z
EFH (C8-C11)	mg/kg	1.3 U	2.6 U	1.3 U	1.4 U	13 U	1.3 U	6.4 U	1.3 U	6.4 U	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,3-Dichlorobenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Hexachlorobutadiene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2-Dichlorobenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Isopropyltoluene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Ethylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Styrene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
trans-1,3-Dichloropropene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
N-Propylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
N-Butylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
4-Chlorotoluene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2-Dibromoethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2-Dichloroethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	8.2 U	--	8.4 U	8.5 U	--	7.7 U	--	7.8 U	--	7.5 U	8.2 U
1,3,5-Trimethylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Bromobenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Toluene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U B	4.1 U
Chlorobenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,4-Dioxane	ug/kg	15 U	--	17 U	16 U	--	14 U	--	15 U	--	14 U	14 U
Dibromochloromethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Tetrachloroethene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
sec-Butylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,3-Dichloropropane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
m,p-Xylene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Carbon tetrachloride	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,1-Dichloropropene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
2-Hexanone	ug/kg	8.2 U	--	8.4 U	8.5 U	--	7.7 U	--	7.8 U	--	7.5 U	8.2 U
2,2-Dichloropropane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Acetone	ug/kg	10	--	11	15	--	7.9	--	7.3 J Z	--	8.4	8.2
Chloroform	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Benzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,1,1-Trichloroethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Bromomethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Chloromethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Dibromomethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Bromochloromethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Chloroethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Vinyl Chloride	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Methylene chloride	ug/kg	4.1 U B	--	13	16	--	3.8 U B	--	3.9 U B	--	3.7 U B	4.1 U B
Bromoform	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Bromodichloromethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,1-Dichloroethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,1-Dichloroethene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Trichlorofluoromethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Dichlorodifluoromethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Freon 113a	ug/kg	5.1 U	--	5.3 U	5.3 U	--	4.8 U	--	4.8 U	--	4.7 U	5.1 U
Freon 113	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2-Dichloropropane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
2-Butanone	ug/kg	8.2 U	--	8.4 U	8.5 U	--	7.7 U	--	7.8 U	--	7.5 U	8.2 U
1,1,2-Trichloroethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Trichloroethene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Chlorotrifluoroethene	ug/kg	5.1 U	--	5.3 U	5.3 U	--	4.8 U	--	4.8 U	--	4.7 U	5.1 U
1,2,3-Trichlorobenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
o-Xylene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
2-Chlorotoluene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
1,2,3-Trichloropropane	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
tert-Butylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U
Isopropylbenzene	ug/kg	4.1 U	--	4.2 U	4.3 U	--	3.8 U	--	3.9 U	--	3.7 U	4.1 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-107-SA5DN-SS-0.0-0.5	SL-107-SA5DN-SB-3.5-4.5	SL-109-SA5DN-SS-0.0-0.5	SL-109-SA5DN-SB-3.5-4.5	SL-110-SA5DN-SS-0.0-0.5	SL-110-SA5DN-SB-4.0-5.0	SL-111-SA5DN-SS-0.0-0.5	SL-111-SA5DN-SB-4.0-5.0	SL-112-SA5DN-SS-0.0-0.5	SL-112-SA5DN-SB-4.0-5.0	SL-113-SA5DN-SS-0.0-0.5
Sample Date		06/01/2011	06/23/2011	06/01/2011	06/23/2011	05/31/2011	06/23/2011	05/31/2011	06/22/2011	05/31/2011	06/22/2011	05/31/2011
SDG		DE170	DE187	DE170	DE187	DE169	DE187	DE169	DE186	DE169	DE186	DE169
Start Depth		0	3.5	0	3.5	0	4	0	4	0	4	0
End Depth		0.5	4.5	0.5	4.5	0.5	5	0.5	5	0.5	5	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	1.1 U	--	0.9 U	--	1 U	--	0.9 U	--	1 U	--
EFH (C12-C14)	mg/kg	6.3 U	1.3 U	13 U	1.3 U	26 U	1.3 U	2.7 U	1.4 U	2.6 U	1.4 U	13 U
EFH (C15-C20)	mg/kg	2.9 J Z	1.3 U	9.6 J Z	1.3 U	23 J Z	1.3 U	2.5 J Z	1.4 U	4.5	1.4 U	6.0 J Z
EFH (C21-C30)	mg/kg	22	1.3 U	43	1.3 U	280	1.3 U	9.5	1.4 U	29	1.4 J FD	43
EFH (C30-C40)	mg/kg	93	0.50 J Z	200	0.62 J Z	530	0.74 J Z	36	0.96 J Z	76	4.2 J FD, Q	260
EFH (C8-C11)	mg/kg	6.3 U	1.3 U	13 U	1.3 U	26 U	1.3 U	2.7 U	1.4 U	2.6 U	1.4 U	13 U
1,4-Dichlorobenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2,4-Trichlorobenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,3-Dichlorobenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Hexachlorobutadiene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2-Dichlorobenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Isopropyltoluene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Ethylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Styrene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
cis-1,3-Dichloropropene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
trans-1,3-Dichloropropene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
N-Propylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
N-Butylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
4-Chlorotoluene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2-Dibromoethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2-Dichloroethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
4-Methyl-2-Pentanone	ug/kg	--	8.1 U	--	7.4 U	--	7.4 U	--	7.4 U	--	8.5 U	--
1,3,5-Trimethylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Bromobenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Toluene	ug/kg	--	4.1 U B	--	3.7 U B	--	3.7 U	--	3.7 U	--	4.2 UJ FD	--
Chlorobenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
2-Chloroethyl Vinyl Ether	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,4-Dioxane	ug/kg	--	15 U	--	15 U	--	15 U	--	14 U	--	15 U	--
Dibromochloromethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Tetrachloroethene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
sec-Butylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,3-Dichloropropane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
cis-1,2-Dichloroethene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
trans-1,2-Dichloroethene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Methyl tert-Butyl Ether	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
m,p-Xylene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Carbon tetrachloride	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,1-Dichloropropene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
2-Hexanone	ug/kg	--	8.1 U	--	7.4 U	--	7.4 U	--	7.4 U	--	8.5 U	--
2,2-Dichloropropane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,1,1,2-Tetrachloroethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Acetone	ug/kg	--	8.7	--	9.1	--	7.4 U	--	7.4 U	--	8.5 UJ FD	--
Chloroform	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Benzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,1,1-Trichloroethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Bromomethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Chloromethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Dibromomethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Bromochloromethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Chloroethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Vinyl Chloride	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Methylene chloride	ug/kg	--	4.1 U B	--	3.7 U B	--	3.7 U B	--	3.7 U B, F	--	4.2 U B, F	--
Bromoform	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Bromodichloromethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,1-Dichloroethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,1-Dichloroethene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Trichlorofluoromethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Dichlorodifluoromethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Freon 113a	ug/kg	--	5.1 U	--	4.6 U	--	4.6 U	--	4.6 U	--	5.3 U	--
Freon 113	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2-Dichloropropane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
2-Butanone	ug/kg	--	8.1 U	--	7.4 U	--	7.4 U	--	7.4 U	--	8.5 U	--
1,1,2-Trichloroethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Trichloroethene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Chlorotrifluoroethene	ug/kg	--	5.1 U	--	4.6 U	--	4.6 U	--	4.6 U	--	5.3 U	--
1,2,3-Trichlorobenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
o-Xylene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
2-Chlorotoluene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2,4-Trimethylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2-Dibromo-3-chloropropane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
1,2,3-Trichloropropane	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
tert-Butylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--
Isopropylbenzene	ug/kg	--	4.1 U	--	3.7 U	--	3.7 U	--	3.7 U	--	4.2 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-113-SA5DN-SB-4.0-5.0	SL-114-SA5DN-SB-4.0-5.0	SL-115-SA5DN-SB-4.0-5.0	SL-116-SA5DN-SB-2.0-3.0	SL-117-SA5DN-SS-0.0-0.5	SL-117-SA5DN-SB-4.0-5.0	SL-118-SA5DN-SS-0.0-0.5	SL-118-SA5DN-SB-4.0-5.0	SL-119-SA5DN-SS-0.0-0.5	SL-119-SA5DN-SB-4.0-5.0	SL-120-SA5DN-SS-0.0-0.5
Sample Date		06/21/2011	06/22/2011	06/22/2011	06/28/2011	05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011	06/20/2011	05/27/2011
SDG		DE185	DE186	DE186	DE190	DE167	DE184	DE167	DE184	DE167	DE184	DE167
Start Depth		4	4	4	2	0	4	0	4	0	4	0
End Depth		5	5	5	3	0.5	5	0.5	5	0.5	5	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1.0 U	--	--	--	--	1.1 U	--	0.9 U	--	1 U	--
EFH (C12-C14)	mg/kg	1.4 U	--	--	--	6.6 U	1.3 U	1.3 U	1.3 U	13 U	1.4 U	6.6 U
EFH (C15-C20)	mg/kg	1.4 U	--	--	--	9.8	1.3 U	5.4	1.3 U	12 J Z	1.4 U	12
EFH (C21-C30)	mg/kg	1.4 U	--	--	--	67 J FD	1.3 U	13	1.3 U	88	1.4 U	52
EFH (C30-C40)	mg/kg	1.1 J Z	--	--	--	210 J FD	1.3 U	29	1.3 U	490	1.4 U	160
EFH (C8-C11)	mg/kg	1.4 U	--	--	--	6.6 U	1.3 U	1.3 U	1.3 U	13 U	1.4 U	6.6 U
1,4-Dichlorobenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2,4-Trichlorobenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,3-Dichlorobenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Hexachlorobutadiene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2-Dichlorobenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Isopropyltoluene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Ethylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Styrene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
cis-1,3-Dichloropropene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
trans-1,3-Dichloropropene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
N-Propylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
N-Butylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
4-Chlorotoluene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2-Dibromoethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2-Dichloroethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
4-Methyl-2-Pentanone	ug/kg	8.2 U	7.8 U	8.6 U	8.8 U	--	9.1 U	--	9.0 U	--	8.0 U	--
1,3,5-Trimethylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Bromobenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Toluene	ug/kg	0.09 J Z	3.9 U B	4.3 U B	4.4 UJ B, FD	--	0.10 J Z	--	0.15 J Z	--	0.10 J Z	--
Chlorobenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,4-Dioxane	ug/kg	15 U	14 U	15 U	15 U	--	16 U	--	17 U	--	15 U	--
Dibromochloromethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Tetrachloroethene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
sec-Butylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,3-Dichloropropane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
cis-1,2-Dichloroethene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
trans-1,2-Dichloroethene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Methyl tert-Butyl Ether	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
m,p-Xylene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Carbon tetrachloride	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,1-Dichloropropene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
2-Hexanone	ug/kg	8.2 U	7.8 U	8.6 U	8.8 U	--	9.1 U	--	9.0 U	--	8.0 U	--
2,2-Dichloropropane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Acetone	ug/kg	8.2 U B	8.8	8.8	8.8 U B	--	9.1 U B	--	9.0 U B	--	8.0 U B	--
Chloroform	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Benzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,1,1-Trichloroethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Bromomethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Chloromethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Dibromomethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Bromochloromethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Chloroethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Vinyl Chloride	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Methylene chloride	ug/kg	4.1 U B	3.9 U B, F	4.3 U B, F	93 J FD	--	4.6 U B	--	4.5 U B	--	4.0 U B	--
Bromoform	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Bromodichloromethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,1-Dichloroethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,1-Dichloroethene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Trichlorofluoromethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Dichlorodifluoromethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Freon 113a	ug/kg	5.2 U	4.9 U	5.4 U	5.5 U	--	5.7 U	--	5.6 U	--	5.0 U	--
Freon 113	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2-Dichloropropane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
2-Butanone	ug/kg	8.2 U	7.8 U	8.6 U	8.8 U	--	9.1 U	--	9.0 U	--	8.0 U	--
1,1,2-Trichloroethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Trichloroethene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Chlorotrifluoroethene	ug/kg	5.2 U	4.9 U	5.4 U	5.5 U	--	5.7 U	--	5.6 U	--	5.0 U	--
1,2,3-Trichlorobenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
o-Xylene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
2-Chlorotoluene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2,4-Trimethylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
1,2,3-Trichloropropane	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
tert-Butylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--
Isopropylbenzene	ug/kg	4.1 U	3.9 U	4.3 U	4.4 U	--	4.6 U	--	4.5 U	--	4.0 U	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-120-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SS-0.0-0.5	SL-121-SA5DN-SB-4.0-5.0	SL-121-SA5DN-SB-8.0-9.0	SL-122-SA5DN-SB-4.0-5.0	SL-123-SA5DN-SB-2.5-3.5	SL-125-SA5DN-SS-0.0-0.5	SL-125-SA5DN-SB-4.0-5.0	SL-125-SA5DN-SB-9.0-10.0	SL-128-SA5DN-SB-4.0-5.0	SL-129-SA5DN-SB-2.5-3.5
Sample Date		06/21/2011	05/31/2011	06/21/2011	06/21/2011	06/24/2011	06/27/2011	05/31/2011	06/21/2011	06/21/2011	06/29/2011	06/29/2011
SDG		DE185	DE169	DE185	DE185	DE188	DE189	DE169	DE185	DE185	DE191	DE191
Start Depth		4	0	4	8	4	2.5	0	4	9	4	2.5
End Depth		5	0.5	5	9	5	3.5	0.5	5	10	5	3.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	1 U	--	1.1 U	1.0 U	--	--	--	1 U	1 U	--	--
EFH (C12-C14)	mg/kg	1.4 U	13 U	1.3 U	2.5 U	--	--	6.6 U	1.4 U	1.3 U	--	--
EFH (C15-C20)	mg/kg	1.4 U	6.3 J Z	1.3 U	1.3 J Z	--	--	3.9 J Z	1.4 U	1.3 U	--	--
EFH (C21-C30)	mg/kg	0.51 J Z	130	1.3 U	20	--	--	27	1.4 U	1.3 U	--	--
EFH (C30-C40)	mg/kg	0.84 J Z	310	1.1 J Z	69	--	--	110	0.71 J Z	1.3 U	--	--
EFH (C8-C11)	mg/kg	1.4 U	13 U	1.3 U	2.5 U	--	--	6.6 U	1.4 U	1.3 U	--	--
1,4-Dichlorobenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2,4-Trichlorobenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,3-Dichlorobenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Hexachlorobutadiene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2-Dichlorobenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Isopropyltoluene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Ethylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Styrene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
cis-1,3-Dichloropropene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
trans-1,3-Dichloropropene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
N-Propylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
N-Butylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
4-Chlorotoluene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2-Dibromoethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2-Dichloroethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
4-Methyl-2-Pentanone	ug/kg	8.3 U	--	8.2 U	8.2 U	8.3 U	8.5 U	--	8.2 U	7.9 U	7.8 U	7.5 U
1,3,5-Trimethylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Bromobenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Toluene	ug/kg	4.2 U	--	4.1 U	4.1 U	0.1 J Z	4.2 U	--	4.1 U	3.9 U	3.9 U B	3.8 U B
Chlorobenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,4-Dioxane	ug/kg	14 U	--	14 U	15 U	15 U	16 U	--	14 U	15 U	15 U	14 U
Dibromochloromethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Tetrachloroethene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
sec-Butylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,3-Dichloropropane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
cis-1,2-Dichloroethene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
trans-1,2-Dichloroethene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Methyl tert-Butyl Ether	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
m,p-Xylene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Carbon tetrachloride	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,1-Dichloropropene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
2-Hexanone	ug/kg	8.3 U	--	8.2 U	8.2 U	8.3 U	8.5 U	--	8.2 U	7.9 U	7.8 U	7.5 U
2,2-Dichloropropane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Acetone	ug/kg	8.3 U	--	8.2 U B	8.2 U B	12	12	--	8.2 U	7.9 U B	7.8 U B	7.5 U B
Chloroform	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Benzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,1,1-Trichloroethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Bromomethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Chloromethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Dibromomethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Bromochloromethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Chloroethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Vinyl Chloride	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Methylene chloride	ug/kg	4.2 U B	--	4.1 U B	4.1 U B	15	14	--	4.1 U B	3.9 U B	3.9 U B, F	3.8 U B, F
Bromoform	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Bromodichloromethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,1-Dichloroethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,1-Dichloroethene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Trichlorofluoromethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Dichlorodifluoromethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Freon 113a	ug/kg	5.2 U	--	5.1 U	5.1 U	5.2 U	5.3 U	--	5.1 U	4.9 U	4.9 U	4.7 U
Freon 113	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2-Dichloropropane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
2-Butanone	ug/kg	8.3 U	--	8.2 U	8.2 U	8.3 U	8.5 U	--	8.2 U	7.9 U	7.8 U	7.5 U
1,1,2-Trichloroethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Trichloroethene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Chlorotrifluoroethene	ug/kg	5.2 U	--	5.1 U	5.1 U	5.2 U	5.3 U	--	5.1 U	4.9 U	4.9 U	4.7 U
1,2,3-Trichlorobenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
o-Xylene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
2-Chlorotoluene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2,4-Trimethylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
1,2,3-Trichloropropane	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
tert-Butylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U
Isopropylbenzene	ug/kg	4.2 U	--	4.1 U	4.1 U	4.2 U	4.2 U	--	4.1 U	3.9 U	3.9 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-130-SA5DN-SB-4.0-5.0	SL-131-SA5DN-SB-3.5-4.5	SL-132-SA5DN-SS-0.0-0.5	SL-132-SA5DN-SB-4.0-5.0	SL-133-SA5DN-SS-0.0-0.5	SL-133-SA5DN-SB-4.0-5.0	SL-134-SA5DN-SS-0.0-0.5	SL-135-SA5DN-SS-0.0-0.5	SL-136-SA5DN-SS-0.0-0.5	SL-137-SA5DN-SS-0.0-0.5	SL-138-SA5DN-SS-0.0-0.5
Sample Date		05/25/2011	06/28/2011	06/02/2011	06/28/2011	06/02/2011	05/25/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011	06/02/2011
SDG		DE162	DE190	DE171	DE190	DE171	DE162	DE171	DE171	DE171	DE171	DE171
Start Depth		4	3.5	0	4	0	4	0	0	0	0	0
End Depth		5	4.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	--	0.9 U	--	0.9 U	--	--	--	--	--
EFH (C12-C14)	mg/kg	--	--	6.1 U	1.3 U	6.2 U	1.3 U	2.5 U	12 U	6.1 U	6.1 U	6.1 U
EFH (C15-C20)	mg/kg	--	--	6.0 J Z	1.3 U	10	1.3 U	1.4 J Z	12 U	6.1 U	6.1 U	6.1 U
EFH (C21-C30)	mg/kg	--	--	37	1.3 U	21	1.3 U	14	20	12	11	13
EFH (C30-C40)	mg/kg	--	--	69	0.58 J Z	110	1.2 J L, Z	37	82	54	49	49
EFH (C8-C11)	mg/kg	--	--	6.1 U	1.3 U	6.2 U	1.3 U	2.5 U	12 U	6.1 U	6.1 U	6.1 U
1,4-Dichlorobenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Hexachlorobutadiene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Isopropyltoluene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Ethylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Styrene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
N-Propylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
N-Butylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
4-Chlorotoluene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2-Dibromoethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2-Dichloroethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	7.7 U	8.0 U	--	7.8 U	--	7.3 U	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Bromobenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Toluene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Chlorobenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,4-Dioxane	ug/kg	16 U	14 U	--	14 U	--	14 U	--	--	--	--	--
Dibromochloromethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Tetrachloroethene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
sec-Butylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,3-Dichloropropane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
m,p-Xylene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Carbon tetrachloride	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,1-Dichloropropene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
2-Hexanone	ug/kg	7.7 U	8.0 U	--	7.8 U	--	7.3 U	--	--	--	--	--
2,2-Dichloropropane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Acetone	ug/kg	7.7 U B	8.0 U B	--	7.8 U B	--	7.3 U B	--	--	--	--	--
Chloroform	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Benzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Bromomethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Chloromethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Dibromomethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Bromochloromethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Chloroethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Vinyl Chloride	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Methylene chloride	ug/kg	3.9 U B	18	--	3.9 U B	--	3.7 U B	--	--	--	--	--
Bromoform	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Bromodichloromethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,1-Dichloroethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,1-Dichloroethene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Trichlorofluoromethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Freon 113a	ug/kg	4.8 U	5.0 U	--	4.9 U	--	4.6 U	--	--	--	--	--
Freon 113	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2-Dichloropropane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
2-Butanone	ug/kg	7.7 U	8.0 U	--	7.8 U	--	7.3 U	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Trichloroethene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	4.8 U	5.0 U	--	4.9 U	--	4.6 U	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
o-Xylene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
2-Chlorotoluene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
tert-Butylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--
Isopropylbenzene	ug/kg	3.9 U	4.0 U	--	3.9 U	--	3.7 U	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-139-SA5DN-SS-0.0-0.5	SL-139-SA5DN-SB-2.0-3.0	SL-140-SA5DN-SS-0.0-0.5	SL-140-SA5DN-SB-2.0-3.0	SL-141-SA5DN-SS-0.0-0.5	SL-141-SA5DN-SB-4.0-5.0	SL-142-SA5DN-SB-2.0-3.0	SL-143-SA5DN-SB-4.0-5.0	SL-144-SA5DN-SB-2.0-3.0	SL-145-SA5DN-SB-2.0-3.0	SL-146-SA5DN-SB-2.0-3.0
Sample Date		06/02/2011	05/24/2011	06/02/2011	05/25/2011	06/02/2011	06/28/2011	05/25/2011	06/28/2011	05/25/2011	05/24/2011	05/24/2011
SDG		DE171	DE161	DE171	DE162	DE171	DE190	DE162	DE190	DE162	DE161	DE161
Start Depth		0	2	0	2	0	4	2	4	2	2	2
End Depth		0.5	3	0.5	3	0.5	5	3	5	3	3	3
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	1 U	--	0.9 U	--	1.0 U	--	--	--	--	--
EFH (C12-C14)	mg/kg	2.4 U	1.3 U	2.4 U	1.3 U	13 U	1.3 U	--	--	--	--	--
EFH (C15-C20)	mg/kg	2.4 U	0.49 J Z	4.7	1.3 U	7.0 J Z	2.4	--	--	--	--	--
EFH (C21-C30)	mg/kg	6	0.70 J Z	15	1.3 U	40	14	--	--	--	--	--
EFH (C30-C40)	mg/kg	25	1.3 U B	48	1.5 J L	140	25	--	--	--	--	--
EFH (C8-C11)	mg/kg	2.4 U	1.3 U	2.4 U	1.3 U	13 U	1.3 U	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2,4-Trichlorobenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,3-Dichlorobenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Hexachlorobutadiene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2-Dichlorobenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Isopropyltoluene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Ethylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Styrene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
cis-1,3-Dichloropropene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
trans-1,3-Dichloropropene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
N-Propylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
N-Butylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
4-Chlorotoluene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2-Dibromoethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2-Dichloroethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
4-Methyl-2-Pentanone	ug/kg	--	9.3 U	--	7.6 U	--	8.6 U	8.5 U	8.6 U	8.4 U	8.2 U	8.8 U
1,3,5-Trimethylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Bromobenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Toluene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U B	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Chlorobenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
2-Chloroethyl Vinyl Ether	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,4-Dioxane	ug/kg	--	17 U	--	14 U	--	15 U	16 U	16 U	18 U	17 U	16 U
Dibromochloromethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Tetrachloroethene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
sec-Butylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,3-Dichloropropane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
cis-1,2-Dichloroethene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
trans-1,2-Dichloroethene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Methyl tert-Butyl Ether	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
m,p-Xylene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Carbon tetrachloride	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,1-Dichloropropene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
2-Hexanone	ug/kg	--	9.3 U	--	7.6 U	--	8.6 U	8.5 U	8.6 U	8.4 U	8.2 U	8.8 U
2,2-Dichloropropane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,1,1,2-Tetrachloroethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Acetone	ug/kg	--	9.3 U B	--	7.6 U B	--	8.6 U B	8.5 U B	8.6 U B	8.4 U B	8.2 U B	8.8 U B
Chloroform	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Benzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,1,1-Trichloroethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Bromomethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Chloromethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Dibromomethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Bromochloromethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Chloroethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Vinyl Chloride	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Methylene chloride	ug/kg	--	4.7 U B	--	3.8 U B	--	27	4.3 U B	4.3 U B	4.2 U B	4.1 U B	4.4 U B
Bromoform	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Bromodichloromethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,1-Dichloroethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,1-Dichloroethene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Trichlorofluoromethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Dichlorodifluoromethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Freon 113a	ug/kg	--	5.8 UJ L	--	4.7 U	--	5.4 U	5.3 U	5.4 U	5.3 U	5.1 UJ L	5.5 UJ L
Freon 113	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2-Dichloropropane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
2-Butanone	ug/kg	--	9.3 U	--	7.6 U	--	8.6 U	8.5 U	8.6 U	8.4 U	8.2 U	8.8 U
1,1,2-Trichloroethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Trichloroethene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,1,2,2-Tetrachloroethane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Chlorotrifluoroethene	ug/kg	--	5.8 U	--	4.7 U	--	5.4 U	5.3 U	5.4 U	5.3 U	5.1 U	5.5 U
1,2,3-Trichlorobenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
o-Xylene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
2-Chlorotoluene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2,4-Trimethylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2-Dibromo-3-chloropropane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
1,2,3-Trichloropropane	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
tert-Butylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U
Isopropylbenzene	ug/kg	--	4.7 U	--	3.8 U	--	4.3 U	4.3 U	4.3 U	4.2 U	4.1 U	4.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-149-SA5DN-SB-4.0-5.0	SL-150-SA5DN-SB-4.0-5.0	SL-152-SA5DN-SB-2.5-3.5	SL-154-SA5DN-SB-4.0-5.0	SL-155-SA5DN-SB-4.0-5.0	SL-156-SA5DN-SB-4.0-5.0	SL-157-SA5DN-SB-4.0-5.0	SL-158-SA5DN-SB-4.0-5.0	SL-159-SA5DN-SB-4.0-5.0	SL-164-SA5DN-SB-4.0-5.0	SL-165-SA5DN-SB-4.0-5.0
Sample Date		07/11/2011	05/24/2011	06/29/2011	06/29/2011	07/08/2011	07/08/2011	07/08/2011	07/08/2011	07/08/2011	07/07/2011	06/29/2011
SDG		DE197	DE161	DE191	DE191	DE196	DE196	DE196	DE196	DE196	DE195	DE191
Start Depth		4	4	2.5	4	4	4	4	4	4	4	4
End Depth		5	5	3.5	5	5	5	5	5	5	5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--	--	--	--	--
EFH (C12-C14)	mg/kg	--	--	--	--	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,3-Dichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Hexachlorobutadiene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2-Dichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Isopropyltoluene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Ethylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Styrene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
N-Propylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
N-Butylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
4-Chlorotoluene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2-Dibromoethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2-Dichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	8.7 U	9.1 U	8.1 U	7.4 U	7.5 U	8.2 U	8.5 U	7.9 U	8.9 U	7.9 U	8.2 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Bromobenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Toluene	ug/kg	4.4 U B	4.5 U	4.1 U B	3.7 U B	3.8 U B	4.1 U B	4.3 U B	3.9 U B	4.5 U B	0.09 J Z	4.1 U B
Chlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,4-Dioxane	ug/kg	17 U	17 U	15 U	13 U	14 U	14 U	15 U	15 U	14 U	14 U	14 U
Dibromochloromethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Tetrachloroethene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
sec-Butylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,3-Dichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
m,p-Xylene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Carbon tetrachloride	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,1-Dichloropropene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
2-Hexanone	ug/kg	8.7 U	9.1 U	8.1 U	7.4 U	7.5 U	8.2 U	8.5 U	7.9 U	8.9 U	7.9 U	8.2 U
2,2-Dichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Acetone	ug/kg	8.7 U B	9.1 U B	8.1 U B	7.4 U B	7.5 U B	8.2 U B	8.5 U B	7.9 U B	8.9 U B	7.9 U B	8.2 U B
Chloroform	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U B	4.1 U B	4.3 U B	3.9 U B	4.5 U B	0.14 J Z	4.1 U
Benzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,1,1-Trichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Bromomethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Chloromethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Dibromomethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Bromochloromethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Chloroethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Vinyl Chloride	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Methylene chloride	ug/kg	4.4 UJ B, L	4.5 U B	4.1 U B, F	3.7 U B, F	82 J L	64 J L	26 J L	130 J L	27 J L	76	4.1 U B, F
Bromoform	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Bromodichloromethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,1-Dichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,1-Dichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Trichlorofluoromethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Dichlorodifluoromethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Freon 113a	ug/kg	5.4 U	5.7 UJ L	5.1 U	4.6 U	4.7 U	5.1 U	5.3 U	4.9 U	5.6 U	5.0 U	5.1 U
Freon 113	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2-Dichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
2-Butanone	ug/kg	8.7 U	9.1 U	8.1 U	7.4 U	7.5 U	8.2 U	8.5 U	7.9 U	8.9 U	7.9 U	8.2 U
1,1,2-Trichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Trichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Chlorotrifluoroethene	ug/kg	5.4 U	5.7 U	5.1 U	4.6 U	4.7 U	5.1 U	5.3 U	4.9 U	5.6 U	5.0 U	5.1 U
1,2,3-Trichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
o-Xylene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
2-Chlorotoluene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
1,2,3-Trichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
tert-Butylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U
Isopropylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	3.7 U	3.8 U	4.1 U	4.3 U	3.9 U	4.5 U	4.0 U	4.1 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-166-SA5DN-SB-4.0-5.0	SL-167-SA5DN-SB-4.0-5.0	SL-168-SA5DN-SB-4.0-5.0	SL-169-SA5DN-SB-4.0-5.0	SL-171-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SS-0.0-0.5	SL-175-SA5DN-SB-4.0-5.0	SL-175-SA5DN-SB-9.0-10.0	SL-179-SA5DN-SS-0.0-0.5	SL-179-SA5DN-SB-4.0-5.0	SL-179-SA5DN-SB-9.0-10.0
Sample Date		07/07/2011	07/07/2011	07/07/2011	07/07/2011	05/26/2011	05/26/2011	08/01/2011	08/01/2011	05/26/2011	07/27/2011	07/27/2011
SDG		DE195	DE195	DE195	DE195	DE166	DE166	DE213	DE213	DE166	DE210	DE210
Start Depth		4	4	4	4	0	0	4	9	0	4	9
End Depth		5	5	5	5	0.5	0.5	5	10	0.5	5	10
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	0.9 U	1.1 U	--	1.0 U	1.0 U
EFH (C12-C14)	mg/kg	--	--	--	--	32 U	13 U	6.6 U	1.4 U	1.3 U	6.2 U	1.4 U
EFH (C15-C20)	mg/kg	--	--	--	--	32 U	6.0 J Z	6.6 U	1.4 U	3.5 J L	6.2 U	1.4 U
EFH (C21-C30)	mg/kg	--	--	--	--	56	41	17 J FD	1.7	16	58	1.4 U
EFH (C30-C40)	mg/kg	--	--	--	--	220	170	76 J FD	7.3	36 J L	160	1.4 U
EFH (C8-C11)	mg/kg	--	--	--	--	32 U	13 U	6.6 U	1.4 U	1.3 U	6.2 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Isopropyltoluene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Styrene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
N-Propylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
N-Butylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2-Dibromoethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	ug/kg	8.7 U	8.6 U	8.4 U	8.8 U	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Bromobenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Toluene	ug/kg	0.1 J Z	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Chlorobenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,4-Dioxane	ug/kg	16 U	16 U	15 U	16 U	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
sec-Butylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
m,p-Xylene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
2-Hexanone	ug/kg	8.7 U	8.6 U	8.4 U	8.8 U	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Acetone	ug/kg	8.7 U B	8.6 U B	8.4 U B	8.8 U B	--	--	--	--	--	--	--
Chloroform	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Benzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Bromomethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Chloromethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Dibromomethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Bromochloromethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Chloroethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Methylene chloride	ug/kg	33 J Q	4.3 U B	4.2 U B	4.4 U B	--	--	--	--	--	--	--
Bromoform	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Bromodichloromethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Trichlorofluoromethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Dichlorodifluoromethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Freon 113a	ug/kg	5.4 U	5.4 U	5.3 U	5.5 U	--	--	--	--	--	--	--
Freon 113	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
2-Butanone	ug/kg	8.7 U	8.6 U	8.4 U	8.8 U	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Trichloroethene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Chlorotrifluoroethene	ug/kg	5.4 U	5.4 U	5.3 U	5.5 U	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
o-Xylene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
tert-Butylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--
Isopropylbenzene	ug/kg	4.3 U	4.3 U	4.2 U	4.4 U	--	--	--	--	--	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-181-SA5DN-SB-4.0-5.0	SL-182-SA5DN-SB-4.0-5.0	SL-184-SA5DN-SB-4.0-5.0	SL-186-SA5DN-SS-0.0-0.5	SL-186-SA5DN-SB-4.0-5.0	SL-186-SA5DN-SB-9.0-10.0	SL-187-SA5DN-SB-4.0-5.0	SL-190-SA5DN-SB-4.0-5.0	SL-191-SA5DN-SS-0.0-0.5	SL-191-SA5DN-SB-4.0-5.0	SL-191-SA5DN-SB-9.0-10.0
Sample Date		06/30/2011	06/30/2011	06/30/2011	05/24/2011	07/05/2011	07/05/2011	06/30/2011	07/06/2011	05/24/2011	07/06/2011	07/06/2011
SDG		DE192	DE192	DE192	DE160	DE193	DE193	DE192	DE194	DE160	DE194	DE194
Start Depth		4	4	4	0	4	9	4	4	0	4	9
End Depth		5	5	5	0.5	5	10	5	5	0.5	5	10
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	--	--	--	1 U	0.9 U	--	--	--	1 U	1 U
EFH (C12-C14)	mg/kg	--	--	--	1.4 U	1.4 U	1.4 U	--	--	0.98 J Z	1.4 U	1.4 U
EFH (C15-C20)	mg/kg	--	--	--	2.5	1.4 U	1.4 U	--	--	4.4	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	--	--	--	17	1.4 U	1.4 U	--	--	13	1.4 U	1.4 U
EFH (C30-C40)	mg/kg	--	--	--	34	0.97 J Z	0.57 J Z	--	--	34	1.4 U	1.4 U
EFH (C8-C11)	mg/kg	--	--	--	0.63 J Z	1.4 U	1.4 U	--	--	1.3 U	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,3-Dichlorobenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Hexachlorobutadiene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2-Dichlorobenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Isopropyltoluene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Ethylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Styrene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
trans-1,3-Dichloropropene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
N-Propylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
N-Butylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
4-Chlorotoluene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2-Dibromoethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2-Dichloroethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	8.0 U	9.0 U	8.8 U	--	7.6 U	7.7 U	8.0 U	8.1 U	--	7.8 U	8.1 U
1,3,5-Trimethylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Bromobenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Toluene	ug/kg	0.12 J Z	0.12 J Z	0.12 J Z	--	3.8 U	0.08 J Z	0.11 J Z	0.15 J Z	--	0.08 J Z	0.16 J Z
Chlorobenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,4-Dioxane	ug/kg	15 U	24 U	16 U	--	14 U	14 U	14 U	14 U	--	15 U	14 U
Dibromochloromethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Tetrachloroethene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
sec-Butylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,3-Dichloropropane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
m,p-Xylene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Carbon tetrachloride	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,1-Dichloropropene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
2-Hexanone	ug/kg	8.0 U	9.0 U	8.8 U	--	7.6 U	7.7 U	8.0 U	8.1 U	--	7.8 U	8.1 U
2,2-Dichloropropane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Acetone	ug/kg	50	41	39	--	11	12	37	8.1 U B	--	7.8 U B	8.1 U B
Chloroform	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	0.13 J Z
Benzene	ug/kg	4.0 U	0.17 J Z	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,1,1-Trichloroethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Bromomethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Chloromethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Dibromomethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Bromochloromethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Chloroethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Vinyl Chloride	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Methylene chloride	ug/kg	32	14	15	--	3.8 U B	3.8 U B	11	19	--	16	27
Bromoform	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Bromodichloromethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,1-Dichloroethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,1-Dichloroethene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Trichlorofluoromethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Dichlorodifluoromethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Freon 113a	ug/kg	5.0 U	5.6 U	5.5 U	--	4.8 U	4.8 U	5.0 U	5.1 U	--	4.9 U	5.1 U
Freon 113	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2-Dichloropropane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
2-Butanone	ug/kg	8.0 U	9.0 U	8.8 U	--	7.6 U	7.7 U	8.0 U	8.1 U	--	7.8 U	8.1 U
1,1,2-Trichloroethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Trichloroethene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Chlorotrifluoroethene	ug/kg	5.0 U	5.6 U	5.5 U	--	4.8 U	4.8 U	5.0 U	5.1 U	--	4.9 U	5.1 U
1,2,3-Trichlorobenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
o-Xylene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
2-Chlorotoluene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
1,2,3-Trichloropropane	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
tert-Butylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U
Isopropylbenzene	ug/kg	4.0 U	4.5 U	4.4 U	--	3.8 U	3.8 U	4.0 U	4.1 U	--	3.9 U	4.1 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-192-SA5DN-SS-0.0-0.5	SL-192-SA5DN-SB-4.0-5.0	SL-192-SA5DN-SB-9.0-10.0	SL-194-SA5DN-SB-4.0-5.0	SL-195-SA5DN-SB-4.0-5.0	SL-196-SA5DN-SB-4.0-5.0	SL-197-SA5DN-SS-0.0-0.5	SL-197-SA5DN-SB-4.0-5.0	SL-197-SA5DN-SB-9.0-10.0	SL-198-SA5DN-SS-0.0-0.5	SL-198-SA5DN-SB-4.0-5.0
Sample Date		05/24/2011	07/05/2011	07/05/2011	07/05/2011	07/05/2011	06/30/2011	05/24/2011	06/30/2011	06/30/2011	05/24/2011	08/05/2011
SDG		DE160	DE193	DE193	DE193	DE193	DE192	DE160	DE192	DE192	DE160	DE218
Start Depth		0	4	9	4	4	4	0	4	9	0	4
End Depth		0.5	5	10	5	5	5	0.5	5	10	0.5	5
Chemical Name	Unit											
GRO (C5-C12)	mg/kg	--	0.9 U	1 U	--	--	--	--	1.1 U	1.1 U	--	1 U
EFH (C12-C14)	mg/kg	3.0 U	1.4 U	1.4 U	--	--	--	2.8 U	1.4 U	1.4 U	66 U	1.4 U
EFH (C15-C20)	mg/kg	8.4	1.4 U	1.4 U	--	--	--	13	1.4 U	1.4 U	66 U	1.4 U
EFH (C21-C30)	mg/kg	23	1.4 U	1.4 U	--	--	--	31	0.76 J Z	1.4 U	160	1.9
EFH (C30-C40)	mg/kg	78	1.4 U	1.4 U	--	--	--	85	1.4 U B	0.95 J Z	740	8.7
EFH (C8-C11)	mg/kg	3.0 U	1.4 U	1.4 U	--	--	--	1.9 J Z	1.4 U	1.4 U	66 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2,4-Trichlorobenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,3-Dichlorobenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Hexachlorobutadiene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2-Dichlorobenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Isopropyltoluene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Ethylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Styrene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
cis-1,3-Dichloropropene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
trans-1,3-Dichloropropene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
N-Propylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
N-Butylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
4-Chlorotoluene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2-Dibromoethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2-Dichloroethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
4-Methyl-2-Pentanone	ug/kg	--	7.6 U	7.7 U	7.9 U	8.4 U	8.7 U	--	8.1 U	8.0 U	--	--
1,3,5-Trimethylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Bromobenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Toluene	ug/kg	--	3.8 U	0.10 J Z	0.11 J Z	0.15 J Z	0.15 J Z	--	0.11 J Z	0.09 J Z	--	--
Chlorobenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,4-Dioxane	ug/kg	--	14 U	14 U	14 U	16 U	15 U	--	15 U	16 U	--	--
Dibromochloromethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Tetrachloroethene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
sec-Butylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,3-Dichloropropane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
cis-1,2-Dichloroethene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
trans-1,2-Dichloroethene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Methyl tert-Butyl Ether	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
m,p-Xylene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Carbon tetrachloride	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,1-Dichloropropene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
2-Hexanone	ug/kg	--	7.6 U	7.7 U	7.9 U	8.4 U	8.7 U	--	8.1 U	8.0 U	--	--
2,2-Dichloropropane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Acetone	ug/kg	--	12	11	11	12	41	--	29	34	--	--
Chloroform	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Benzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,1,1-Trichloroethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Bromomethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Chloromethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Dibromomethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Bromochloromethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Chloroethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Vinyl Chloride	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Methylene chloride	ug/kg	--	13	3.9 U B	3.9 U B	4.2 U B	12	--	4.1 U B	4.0 U B	--	--
Bromoform	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Bromodichloromethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,1-Dichloroethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,1-Dichloroethene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Trichlorofluoromethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Dichlorodifluoromethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Freon 113a	ug/kg	--	4.8 U	4.8 U	4.9 U	5.2 U	5.4 U	--	5.1 U	5.0 U	--	--
Freon 113	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2-Dichloropropane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
2-Butanone	ug/kg	--	7.6 U	7.7 U	7.9 U	8.4 U	8.7 U	--	8.1 U	8.0 U	--	--
1,1,2-Trichloroethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Trichloroethene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Chlorotrifluoroethene	ug/kg	--	4.8 U	4.8 U	4.9 U	5.2 U	5.4 U	--	5.1 U	5.0 U	--	--
1,2,3-Trichlorobenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
o-Xylene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
2-Chlorotoluene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2,4-Trimethylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
1,2,3-Trichloropropane	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
tert-Butylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--
Isopropylbenzene	ug/kg	--	3.8 U	3.9 U	3.9 U	4.2 U	4.4 U	--	4.1 U	4.0 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-198-SA5DN-SB-9.0-10.0	SL-199-SA5DN-SB-4.0-5.0	SL-200-SA5DN-SB-4.0-5.0	SL-201-SA5DN-SB-4.0-5.0	SL-202-SA5DN-SB-4.0-5.0	SL-203-SA5DN-SB-4.0-5.0	SL-205-SA5DN-SB-4.0-5.0	SL-206-SA5DN-SB-4.0-5.0	SL-207-SA5DN-SS-0.0-0.5	SL-207-SA5DN-SB-4.0-5.0
Sample Date		08/05/2011	07/11/2011	07/06/2011	07/06/2011	06/13/2011	06/30/2011	07/06/2011	05/19/2011	06/03/2011	08/11/2011
SDG		DE218	DE197	DE194	DE194	DE179	DE192	DE194	DE156	DE173	DE222
Start Depth		9	4	4	4	4	4	4	4	0	4
End Depth		10	5	5	5	5	5	5	5	0.5	5
Chemical Name	Unit										
GRO (C5-C12)	mg/kg	1.3 U	--	--	--	--	--	--	--	--	1.1 U
EFH (C12-C14)	mg/kg	1.3 U	--	--	--	--	--	--	--	13 U	1.4 U
EFH (C15-C20)	mg/kg	1.3 U	--	--	--	--	--	--	--	7.4 J Z	1.4 U
EFH (C21-C30)	mg/kg	2.2	--	--	--	--	--	--	--	160	1.4 U
EFH (C30-C40)	mg/kg	7.1	--	--	--	--	--	--	--	300	0.70 J Z
EFH (C8-C11)	mg/kg	1.3 U	--	--	--	--	--	--	--	13 U	1.4 U
1,4-Dichlorobenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2,4-Trichlorobenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,3-Dichlorobenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Hexachlorobutadiene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2-Dichlorobenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Isopropyltoluene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Ethylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Styrene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
cis-1,3-Dichloropropene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
trans-1,3-Dichloropropene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
N-Propylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
N-Butylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
4-Chlorotoluene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2-Dibromoethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2-Dichloroethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
4-Methyl-2-Pentanone	ug/kg	--	8.0 U	8.3 U	8.9 U	8.4 U	8.8 U	7.9 U	8.6 U	--	--
1,3,5-Trimethylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Bromobenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Toluene	ug/kg	--	4.0 U B	0.11 J FD, Z	0.12 J Z	0.17 J Z	0.15 J Z	4.0 U	4.3 U	--	--
Chlorobenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
2-Chloroethyl Vinyl Ether	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,4-Dioxane	ug/kg	--	14 U	15 U	16 U	16 U	15 U	16 U	14 U	--	--
Dibromochloromethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Tetrachloroethene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
sec-Butylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,3-Dichloropropane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
cis-1,2-Dichloroethene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
trans-1,2-Dichloroethene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Methyl tert-Butyl Ether	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
m,p-Xylene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Carbon tetrachloride	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,1-Dichloropropene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
2-Hexanone	ug/kg	--	8.0 U	8.3 U	8.9 U	8.4 U	8.8 U	7.9 U	8.6 U	--	--
2,2-Dichloropropane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,1,1,2-Tetrachloroethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Acetone	ug/kg	--	8.0 U B	8.3 U B	8.9 U B	8.4 U	40	7.9 U B	9.7	--	--
Chloroform	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Benzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,1,1-Trichloroethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Bromomethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Chloromethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Dibromomethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Bromochloromethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Chloroethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Vinyl Chloride	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Methylene chloride	ug/kg	--	4.0 UJ B, L	4.2 UJ B, FD, Q	4.4 U B	4.2 U B	4.4 U B	4.0 U B	4.3 U B, F	--	--
Bromoform	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Bromodichloromethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,1-Dichloroethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,1-Dichloroethene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Trichlorofluoromethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Dichlorodifluoromethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Freon 113a	ug/kg	--	5.0 U	5.2 U	5.6 U	5.2 U	5.5 U	5.0 U	5.4 UJ L	--	--
Freon 113	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2-Dichloropropane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
2-Butanone	ug/kg	--	8.0 U	8.3 U	8.9 U	8.4 U	8.8 U	7.9 U	8.6 U	--	--
1,1,2-Trichloroethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Trichloroethene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Chlorotrifluoroethene	ug/kg	--	5.0 U	5.2 U	5.6 U	5.2 U	5.5 U	5.0 U	5.4 U	--	--
1,2,3-Trichlorobenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
o-Xylene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
2-Chlorotoluene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2,4-Trimethylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2-Dibromo-3-chloropropane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
1,2,3-Trichloropropane	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
tert-Butylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--
Isopropylbenzene	ug/kg	--	4.0 U	4.2 U	4.4 U	4.2 U	4.4 U	4.0 U	4.3 U	--	--

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DE253	DE253	DE286	DE256	DE256	DE283	DE283
Start Depth		0	0	1.8	0	0	1	0
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	3	--
Fluoride	mg/kg	4.6 J Q	1.4 J Q	1.2 J Q	2.0 J Q	1.3 J Q	1.2 J Q	1.1 UJ Q
Cyanide	mg/kg	--	--	--	--	--	0.52 U	--
Aluminum	mg/kg	12200	17600	18000	14300	14500	14800	17000
Iron	mg/kg	22900	25100	24900 J Q	26100	21800	26600	23300
Lead	mg/kg	40.1 J A	24.2 J A	6.38 J Q, A	15	11.9	7.68 J Q, E	14.8 J Q, E
Lithium	mg/kg	16.2	20	23.3	20.1	19.4	18.8	19.5
Magnesium	mg/kg	5630	5310	5800	5060	5140	6400	5010
Manganese	mg/kg	305	385	331	289	268	191	278
Mercury	mg/kg	0.0133 J Z	0.0222 J Z	0.106 U	0.0103 J Z	0.0074 J Z	0.0994 U	0.0144 J Z
Molybdenum	mg/kg	0.757 J Q	0.747 J Q	0.493	0.414	0.366	0.333 J Q, E	0.484 J Q, E
Nickel	mg/kg	14.0 J Q, A	15.8 J Q, A	12.2 J Q, A	9.66	10.2	12.9 J Q, E	12.5 J Q, E
Potassium	mg/kg	1760	4290	2830 J Q	2490	2260	1300	3110
Silver	mg/kg	0.0372 J Q, Z	0.0472 J Q, Z	0.0381 J Z	0.0252 J Z	0.0236 J Z	0.0159 J Q, E, Z	0.0259 J Q, E, Z
Sodium	mg/kg	124	101	85.6 J Z	93.6 J Z	91.1 J Z	113	98.3 J Z
Strontium	mg/kg	22	29.6	23.9	20.1 J E	20.9 J E	19.6	26.5
Thallium	mg/kg	0.172 J Q	0.219 J Q	0.206	0.157	0.15	0.134 J Q, E	0.238 J Q, E
Tin	mg/kg	10.1 U B	10.0 U B	10.6 U B	10.1 U B	10.1 U B	10.3 U B	10.6 U B
Titanium	mg/kg	1240	1230	997	1110	999	827	924
Antimony	mg/kg	0.436 J Q	0.309 J Q	0.180 J Q, Z	0.105 J Q, Z	0.112 J Q, Z	0.114 J Q, E, Z	0.203 J FD, Q, E, Z
Arsenic	mg/kg	7.36 J Q	6.53 J Q	4.92 J Q	5.22	4.67	6.45 J Q, E	5.80 J Q, E
Beryllium	mg/kg	0.401	0.482	0.529	0.416	0.424	0.596 J E, Q	0.698 J E, Q
Barium	mg/kg	69.4 J A	105 J A	87.8 J E, A	54.3	51.4	49.8 J E	81.2 J E
Boron	mg/kg	7.49	10.9	11	10.5	9.43	6.19	7.62
Cadmium	mg/kg	0.294 J Q	0.345 J Q	0.214	0.16	0.161	0.128 J Q, E	0.233 J Q, E
Chromium	mg/kg	54.1 J A	48.8 J A	34.5 J Q, A	34.4	32.9	51.3 J Q, E	42.0 J Q, E
Cobalt	mg/kg	7.42	7.83	8.13 J A	5.83	6.46	5.13 J E	6.69 J E
Copper	mg/kg	7.37 J Q	11.0 J Q	7.03	5.54	5.55	5.67 J Q, E	7.68 J Q, E
Vanadium	mg/kg	98.1 J A	84.4 J A	58.3 J A	58.4	56.9	84.3 J Q, E	69.8 J Q, E
Zinc	mg/kg	72.7 J A	75.9 J A	47.3	53.9	50.5	61.9 J Q, E	60.5 J Q, E
Zirconium	mg/kg	12.5	6.76	8.84	5.39	3.56 J Z	9.61	8.03
Calcium	mg/kg	5160	5460	4180	3540 J E	3540 J E	3960	3670
Phosphorus	mg/kg	878	825	615	715	808	868	731
Selenium	mg/kg	0.257 J Q, Z	0.294 J Q, Z	0.143 J Z	0.350 J Z	0.244 J Z	0.299 J E, Z	0.290 J E, Z
Chromium VI	mg/kg	1.0 U	1.0 U	1.1	0.97 J Z	0.92 J Z	0.60 J Z	1.1 UJ FD
Perchlorate (314.0)	ug/kg	30.2 U	30.6 U	32.1 U	30.5 U	30.5 U	31.7 U	33.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	0.67	2.1	6.6	1.7	1.5	5.3	10.3
pH	pH unit	6.04	7.04	7.27	5.96	6.03	6.09	6.27

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0	SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011	09/28/2011	10/18/2011
SDG		DE257	DE257	DE257	DE257	DE282	DE257	DE271
Start Depth		0	0	0	0	2	0	4
End Depth		0.5	0.5	0.5	0.5	3	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	3.6	--	--
Fluoride	mg/kg	1.0 UJ Q	1.1 J Q	1.0 UJ Q	1.0 UJ Q	1.6 J Q	0.93 J Q, Z	2.2 J E, Q
Cyanide	mg/kg	--	--	--	--	0.54 U	--	--
Aluminum	mg/kg	17200	11700	17500	16800	16100	17600	23300
Iron	mg/kg	22700	17900	21900	22100	24400	21300	25000
Lead	mg/kg	14.2 J Q	5.33 J Q	14.8 J Q	18.9 J Q	5.17 J E	14.2 J Q	7.64 J Q, E
Lithium	mg/kg	16.3	25.1	15.6	16.7	17.8	17.2	23.2
Magnesium	mg/kg	4860	4490	4660	4590	5660	4330	5430
Manganese	mg/kg	257	258	282	298	164	294	281
Mercury	mg/kg	0.0981 U F	0.0979 U	0.0983 U F	0.0947 U F	0.0091 J Z	0.0997 U F	0.111 U
Molybdenum	mg/kg	0.705 J Q	0.439 J Q	0.696 J Q	0.792 J Q	0.196 J Q, E	0.839 J Q	0.585 J Q, E
Nickel	mg/kg	12.7 J Q	12.0 J Q	13.4 J Q	15.9 J Q	10.4 J Q, E	14.0 J Q	16.7 J E, Q
Potassium	mg/kg	2500	2850	2680	2660	1210	3170	1790
Silver	mg/kg	0.0242 J Q, Z	0.0787 J Q, Z	0.0309 J Q, Z	0.0320 J Q, Z	0.0165 J Q, E, Z	0.0405 J Q, Z	0.0267 J Q, Z
Sodium	mg/kg	87.7 J Z	69.5 J Z	88.4 J Z	91.2 J Z	123	85.1 J Z	102 J Z
Strontium	mg/kg	24.5	10.8	26.8	24.9	19.8	25.1	25.4
Thallium	mg/kg	0.184 J Q	0.284 J Q	0.216 J Q	0.248 J Q	0.101 J Q, E, Z	0.210 J Q	0.272 J Q
Tin	mg/kg	10.1 U B	9.99 U B	10.2 U B	10.0 U B	10.9 U B	10.1 U B	10.8 U B
Titanium	mg/kg	1180	1110	1160	1200	1050	1200	1090
Antimony	mg/kg	0.271 J Q	0.105 J Q, Z	0.294 J Q	0.307 J Q	0.160 J Q, E, Z	0.229 J Q	0.128 J Q, Z
Arsenic	mg/kg	6.01 J Q	4.51 J Q	6.31 J Q	7.13 J Q	6.23 J Q, E	5.71 J Q	6.34 J Q, E
Beryllium	mg/kg	0.643	0.523	0.694	0.766	0.469 J E, Q	0.739	0.896 J Q, E
Barium	mg/kg	79.1	97.4	90.8	101	38.2 J E	93.1	92.1 J E
Boron	mg/kg	8.27	4.38 J Z	7.25	7.3	5.84	7.27	5.39 U
Cadmium	mg/kg	0.203 J Q	0.125 J Q	0.221 J Q	0.297 J Q	0.0665 J Q, E, Z	0.240 J Q	0.143 J Q
Chromium	mg/kg	37.6 J Q	16.6 J Q	38.3 J Q	46.2 J Q	36.8 J Q, E	37.9 J Q	45.8 J Q, E
Cobalt	mg/kg	6.77 J Q	6.13 J Q	7.48 J Q	9.03 J Q	3.85 J E	7.23 J Q	9.22 J Q
Copper	mg/kg	7.44 J Q	7.88 J Q	8.34 J Q	9.76 J Q	3.98 J Q, E	8.80 J Q	8.96 J Q, E
Vanadium	mg/kg	64.8	34.9	65.4	77	66.2 J E	63.5	78.1 J Q, E
Zinc	mg/kg	57.8	72.7	61.2	73.5	42.9 J E	61.9	60
Zirconium	mg/kg	6.09	0.970 J Z	5.85	6.14	15	3.72 J Z	7.64
Calcium	mg/kg	3100	2820	3230	3450	3440	3010	3120
Phosphorus	mg/kg	594	340	586	660	661	585	491
Selenium	mg/kg	0.204 J Z	0.0809 J Z	0.222 J Z	0.252 J Z	0.203 J E, Z	0.217 J Z	0.304 J Q, Z
Chromium VI	mg/kg	1.1	0.48 J Z	0.68 J Z	0.21 J Z	0.47 J Z	0.97 U	0.52 J Z
Perchlorate (314.0)	ug/kg	30.5 U	30.6 U	30.5 U	30.4 U	33.4 U	30.7 U	34.0 U
Perchlorate (6850)	ug/kg	--	5.1 U	--	--	--	--	--
Percent Moisture	%	1.5	1.9	1.5	1.4	10.3	2.2	11.7
pH	pH unit	6.2	6.33	5.96	6.05	7.06	5.85	7.67

U - Compound not detected above the reporting limit
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R - Result is rejected

Sample Name		SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011
SDG		DE257	DE257	DE271	DE257	DE272	DE257	DE256
Start Depth		0	0	3.5	0	4	0	0
End Depth		0.5	0.5	4.5	0.5	5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 U	1.0 U	1.5 J E, Q	1.0 U	2.5	1.3	1.3 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	18200	17700	18800	17600	21500	16600	16100
Iron	mg/kg	22400	22500	23800	22400	27000	22300	21900
Lead	mg/kg	11.9 J Q	11.6 J Q	7.22 J Q, E	13.3 J Q	5.59 J E, Q, A	30.0 J Q	10.5
Lithium	mg/kg	18.3	17.6	20.4	17	19.9	17.2	17.8
Magnesium	mg/kg	4840	4560	5530	4630	5280	4760	5120
Manganese	mg/kg	306	273	239	309	303	273	252
Mercury	mg/kg	0.101 U F	0.0472 J Z	0.107 U	0.102 U	0.104 U	0.0978 U F	0.0135 J Z
Molybdenum	mg/kg	0.685 J Q	0.779 J Q	0.498 J Q, E	0.726 J Q	0.538	0.808 J Q	0.351
Nickel	mg/kg	11.6 J Q	15.5 J Q	14.6 J E, Q	15.7 J Q	12.6 J Q, A	17.8 J Q	10.4
Potassium	mg/kg	2730	3100	2080	3510	1690	2390	2830
Silver	mg/kg	0.0258 J Q, Z	0.0297 J Q, Z	0.0200 J Q, Z	0.0328 J Q, Z	0.0268 J Z	0.0461 J Q, Z	0.0210 J Z
Sodium	mg/kg	93.6 J Z	84.7 J Z	109	80.5 J Z	110	97.7 J Z	86.7 J Z
Strontium	mg/kg	26.7	25.2	25.6	27.1	27.5	30.7	20.2 J E
Thallium	mg/kg	0.186 J Q	0.233 J Q	0.226 J Q	0.245 J Q	0.222	0.245 J Q	0.173
Tin	mg/kg	9.95 U B	9.87 U B	10.5 U B	10.3 U B	10.8 U B	9.97 U B	9.97 U B
Titanium	mg/kg	1210	1220	1040	1220	1480	1140	1120
Antimony	mg/kg	0.242 J Q	0.305 J Q	0.150 J Q, Z	0.287 J Q	0.215 UJ B, Q	0.328 J Q	0.0922 J Q, Z
Arsenic	mg/kg	4.58 J Q	6.25 J Q	5.91 J Q, E	5.99 J Q	5.58 J E, Q	6.84 J Q	4.73
Beryllium	mg/kg	0.584	0.732	0.774 J Q, E	0.768	0.712	0.812	0.464
Barium	mg/kg	76.9	101	90.8 J E	104	65.0 J A	104	64.8
Boron	mg/kg	7.05	7.07	5.27 U	7.67	2.00 J Z	8.34	9.42
Cadmium	mg/kg	0.210 J Q	0.279 J Q	0.151 J Q	0.286 J Q	0.119	0.338 J Q	0.191
Chromium	mg/kg	31.3 J Q	39.8 J Q	41.8 J Q, E	38.1 J Q	36.8 J Q, A	43.4 J Q	34.8
Cobalt	mg/kg	5.97 J Q	8.50 J Q	9.72 J Q	8.95 J Q	6.94 J A	10.6 J Q	6.28
Copper	mg/kg	7.35 J Q	9.03 J Q	8.23 J Q, E	9.83 J Q	6.80 J Q	10.5 J Q	5.38
Vanadium	mg/kg	53.2	71.2	72.2 J Q, E	66.9	66.2 J A	78.8	58.8
Zinc	mg/kg	51.4	65.7	60.2	65.4	50.7	80	48.4
Zirconium	mg/kg	2.65 J Z	5.38	6.73	4.97 J Z	13	6.1	7.94
Calcium	mg/kg	3290	3290	3190	3460	3090	4170	3250 J E
Phosphorus	mg/kg	717	643	550	642	432 J Q, E	706	668
Selenium	mg/kg	0.216 J Z	0.241 J Z	0.303 J Q, Z	0.220 J Z	0.154 J Z	0.253 J Z	0.190 J Z
Chromium VI	mg/kg	0.53 J Z	1	2.1	0.73 J Z	0.56 J Z	1.4	1.0 U
Perchlorate (314.0)	ug/kg	30.5 U	30.8 U	33.2 U	683	32.6 U	30.5 U	30.5 U
Perchlorate (6850)	ug/kg	--	5.1 U	--	--	--	--	--
Percent Moisture	%	1.5	2.6	9.6	4.9	8.1	1.7	1.7
pH	pH unit	5.66	6.1	6.76	5.87	7	6.27	5.9

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5
Sample Date		11/08/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DE282	DE256	DE256	DE283	DE256	DE283	DE256
Start Depth		2	0	0	2	0	4	0
End Depth		3	0.5	0.5	3	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	3.2	--	--	--	--	--	--
Fluoride	mg/kg	2.1 J Q	1.8 J Q	1.5 J Q	1.2 J Q	1.0 UJ Q	1.6 J Q	1.7 J Q
Cyanide	mg/kg	0.54 U	--	--	--	--	--	--
Aluminum	mg/kg	17700	15300	15600	15100	16100	18900	15000
Iron	mg/kg	26200	21400	21000	27800	22800	26600	22000
Lead	mg/kg	4.57 J E	12.4	8.71	4.61 J Q, E	9.99	5.91 J Q, E	12.3
Lithium	mg/kg	17.8	18.3	17.7	13	20.2	24	20.5
Magnesium	mg/kg	5850	4930	5000	3710	5050	5850	5540
Manganese	mg/kg	238	281	399	3560	306	289	267
Mercury	mg/kg	0.106 U	0.0088 J Z	0.0115 J Z	0.0157 J Z	0.0193 J Z	0.104 U	0.0118 J Z
Molybdenum	mg/kg	0.218 J Q, E	0.438	0.365	0.647 J Q, E	0.457	0.438 J Q, E	0.38
Nickel	mg/kg	9.74 J Q, E	10.1	10.4	14.0 J Q, E	10.8	13.9 J Q, E	10.2
Potassium	mg/kg	1160	2670	2370	1290	3490	1680	1770
Silver	mg/kg	0.104 UJ E	0.0708 J Z	0.0207 J Z	0.0161 J Q, E, Z	0.0204 J Z	0.0210 J Q, E, Z	0.0152 J Z
Sodium	mg/kg	117	88.1 J Z	91.3 J Z	95.0 J Z	83.9 J Z	115	98.7 J Z
Strontium	mg/kg	20.7	21.4 J E	23.6 J E	22.3	23.1 J E	23.9	21.9 J E
Thallium	mg/kg	0.124 J Q, E	0.149	0.167	0.150 J Q, E	0.146	0.211 J Q, E	0.129
Tin	mg/kg	10.7 U B	9.94 U B	9.87 U B	10.5 U B	10.1 U B	10.3 U B	10.1 U B
Titanium	mg/kg	1030	1100	1030	880	812	985	750
Antimony	mg/kg	0.0982 J Q, E, Z	0.107 J Q, Z	0.100 J Q, Z	0.127 J Q, E, Z	0.108 J Q, Z	0.116 J Q, E, Z	0.111 J Q, Z
Arsenic	mg/kg	5.83 J Q, E	4.58	4.61	8.02 J Q, E	4.4	5.75 J Q, E	4.68
Beryllium	mg/kg	0.534 J E, Q	0.441	0.452	0.846 J E, Q	0.43	0.649 J E, Q	0.426
Barium	mg/kg	47.4 J E	65	79.4	104 J E	64.3	67.3 J E	55.1
Boron	mg/kg	6.03	9.48	9.65	7.74	10.3	6.35	10.1
Cadmium	mg/kg	0.0667 J Q, E, Z	0.166	0.163	0.182 J Q, E	0.195	0.135 J Q, E	0.148
Chromium	mg/kg	36.3 J Q, E	31.2	33.3	32.7 J Q, E	31.7	40.8 J Q, E	32.8
Cobalt	mg/kg	4.49 J E	6.28	5.61	4.92 J E	6.79	6.57 J E	6.25
Copper	mg/kg	3.83 J Q, E	6.2	5.4	3.89 J Q, E	6.34	6.95 J Q, E	5.31
Vanadium	mg/kg	64.3 J E	54.8	55.2	68.1 J Q, E	55.3	71.1 J Q, E	57.6
Zinc	mg/kg	44.0 J E	50	46.9	37.3 J Q, E	50.3	52.4 J Q, E	48.4
Zirconium	mg/kg	13.5	6.66	4.06 J Z	11.8	5.84	9.73	5.94
Calcium	mg/kg	3250	3440 J E	3510 J E	2690	3560 J E	3360	3610 J E
Phosphorus	mg/kg	536	715	740	553	715	478	582
Selenium	mg/kg	0.124 J E, Z	0.190 J Z	0.170 J Z	0.103 J E, Z	0.217 J Z	0.209 J E, Z	0.259 J Z
Chromium VI	mg/kg	0.64 J Z	1.7	0.65 J Z	0.62 J Z	0.56 J Z	0.55 J Z	1.0 U
Perchlorate (314.0)	ug/kg	32.5 U	30.4 U	30.5 U	32.7 U	30.5 U	31.8 U	30.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	7.6	1.4	1.6	8.3	1.8	5.7	1.9
pH	pH unit	6.12	5.99	6.14	6.45	6.05	6.5	6.09

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011
SDG		DE256	DE256	DE253	DE273	DE273	DE253	DE253
Start Depth		0	0	0	4	9	0	0
End Depth		0.5	0.5	0.5	5	10	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 UJ Q	1.4 J Q	1.0 UJ Q	6.7 J Q	9.1 J Q	2.5 J Q	0.99 UJ Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	11800	13500	9970	20700 J E	30100 J E	15800	12000
Iron	mg/kg	19200	21500	18300	28500	37300	27200	25400
Lead	mg/kg	8.9	9.22	12.1 J A	6.65 J Q, A	9.82 J Q, A	10.1 J A	28.1 J A
Lithium	mg/kg	19.1	18.8	13.8	40	52.9	30.5	21.4
Magnesium	mg/kg	5160	5700	4310	8240	10500	7140	6320
Manganese	mg/kg	281	329	227	323	250	317	293
Mercury	mg/kg	0.0098 J Z	0.0098 J Z	0.0973 U	0.108 U	0.109 U B	0.0988 U	0.0095 J Z
Molybdenum	mg/kg	0.313	0.341	0.404 J Q	0.303	0.165	0.413 J Q	0.384 J Q
Nickel	mg/kg	9.27	9.08	20.0 J Q, A	14.4 J A	22.5 J A	20.6 J Q, A	17.3 J Q, A
Potassium	mg/kg	2320	1470	2570	4200 J Q	6250 J Q	3940	4800
Silver	mg/kg	0.0169 J Z	0.0162 J Z	0.0205 J Q, Z	0.109 U	0.0195 J Z	0.161 J Q	0.351 J Q
Sodium	mg/kg	111	98.2 J Z	199	164	209	146	195
Strontium	mg/kg	20.5 J E	21.3 J E	30.7	23.1	31.9	21.6	21.1
Thallium	mg/kg	0.112	0.102	0.186 J Q	0.269	0.395	0.367 J Q	0.244 J Q
Tin	mg/kg	10.1 U B	10.1 U B	9.85 U B	10.8 U B	11.0 U B	9.83 U B	9.76 U B
Titanium	mg/kg	1090	1210	1100	1380	1590	1260	1480
Antimony	mg/kg	0.119 J Q, Z	0.133 J Q, Z	0.102 J Q, Z	0.217 UJ Q	0.0880 J Q, Z	0.194 J Q, Z	0.145 J Q, Z
Arsenic	mg/kg	4.53	5.88	3.27 J Q	4.73 J Q	6.86 J Q	5.79 J Q	2.80 J Q
Beryllium	mg/kg	0.389	0.418	0.275	0.578 J Q	0.762 J Q	0.44	0.243
Barium	mg/kg	42.5	61.2	101 J A	70.5	103	128 J A	140 J A
Boron	mg/kg	8.87	9.52	5.5	13.4	17.5	9.43	7
Cadmium	mg/kg	0.156	0.134	0.152 J Q	0.0890 J Z	0.108 J Z	0.354 J Q	0.362 J Q
Chromium	mg/kg	31.2	32.7	24.8 J A	27.9 J Q, A	35.9 J Q, A	44.5 J A	22.5 J A
Cobalt	mg/kg	5.49	6.29	6.3	8.63 J A	8.11 J A	10.7	7.43
Copper	mg/kg	4.43	3.69	11.9 J Q	10.8 J A	20.6 J A	14.1 J Q	16.5 J Q
Vanadium	mg/kg	56.4	61.6	63.9 J A	56.7 J A	67.2 J A	95.0 J A	62.6 J A
Zinc	mg/kg	43.2	45.9	58.8 J A	67.9	98.9	104 J A	109 J A
Zirconium	mg/kg	9.18	11	4.92 U B	7.39	7.92	7.02	2.42 J Z
Calcium	mg/kg	4600 J E	4700 J E	3460	5730	6120	8000	4810
Phosphorus	mg/kg	838	721	472	588	613	655	739
Selenium	mg/kg	0.170 J Z	0.188 J Z	0.154 J Q, Z	0.206 J Z	0.344 J Z	0.282 J Q, Z	0.144 J Q, Z
Chromium VI	mg/kg	0.67 J Z	0.86 J Z	0.34 J Z	1.1 U	1.1 U	1.0 U	0.38 J Z
Perchlorate (314.0)	ug/kg	30.5 U	30.6 U	30.4 U	32.6 U	32.9 U	30.4 U	30.2 U
Perchlorate (6850)	ug/kg	--	--	--	5.4 U	--	--	--
Percent Moisture	%	1.6	2	1.4	8	8.9	1.2	0.56
pH	pH unit	6.65	6.48	6.84	8.2	7.13	7.41	7.1

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-028-SA5DS-SB-1.9-2.9	SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0
Sample Date		11/11/2011	09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011
SDG		DE285	DE253	DE285	DE253	DE253	DE286	DE286
Start Depth		1.9	0	3.5	0	0	4	9
End Depth		2.9	0.5	4.5	0.5	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	6.5	2.6 J Q	3.3	1.2 J Q	1.6 J Q	6.2 J Q	3.6 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	18600	29200	26800	26100	29200	31100	28900
Iron	mg/kg	28500	36900	36000	34100	39000	38200 J Q	44600 J Q
Lead	mg/kg	8.11	15.7 J A	9.21	17.8 J A	32.3 J A	8.91 J Q, A	8.86 J Q, A
Lithium	mg/kg	33.6	55.1	47.1	47.1	45.2	39.9	44.7
Magnesium	mg/kg	7990	10200	10400	9090	9660	9430	10700
Manganese	mg/kg	313 J E	345	293 J E	377	361	364	285
Mercury	mg/kg	0.107 U	0.0076 J Z	0.105 U	0.0145 J Z	0.0130 J Z	0.108 U	0.106 U
Molybdenum	mg/kg	0.105 U B	0.514 J Q	0.108 U B	0.651 J Q	0.664 J Q	0.371	0.108 U B
Nickel	mg/kg	15	29.2 J Q, A	21.4	34.2 J Q, A	28.6 J Q, A	21.9 J Q, A	21.4 J Q, A
Potassium	mg/kg	2910 J Q	5730	5010 J Q	7340	6660	4740 J Q	5150 J Q
Silver	mg/kg	0.105 U	0.0472 J Q, Z	0.0265 J Z	0.0488 J Q, Z	0.0554 J Q, Z	0.0233 J Z	0.0466 J Z
Sodium	mg/kg	163 J E	161	150 J E	146	135	194	198
Strontium	mg/kg	17.7	28.8	28.9	35.9	34.5	36	36.7
Thallium	mg/kg	0.276	0.539 J Q	0.381	0.616 J Q	0.526 J Q	0.41	0.407
Tin	mg/kg	22	10.2 U B	10.5 U B	10.1 U B	10.4 U B	10.9 U B	10.7 U B
Titanium	mg/kg	1040	1700	1340	1670	1710	1540	1410
Antimony	mg/kg	0.210 U	0.343 J Q	0.0902 J Z	0.182 J Q, Z	0.341 J Q	0.104 J Q, Z	0.217 UJ Q
Arsenic	mg/kg	4.26	8.36 J Q	4.67	9.83 J Q	8.83 J Q	5.80 J Q	5.35 J Q
Beryllium	mg/kg	0.539	0.635	0.719	0.576	0.693	0.815	0.762
Barium	mg/kg	57.5	143 J A	98.2	180 J A	151 J A	124 J E, A	114 J E, A
Boron	mg/kg	4.58 J Z	13.5	6.61	17.3	14	17.5	20
Cadmium	mg/kg	0.0832 J Z	0.252 J Q	0.143	0.283 J Q	0.268 J Q	0.159	0.174
Chromium	mg/kg	32.4	58.8 J A	31.3	68.5 J A	55.5 J A	33.0 J Q, A	31.3 J Q, A
Cobalt	mg/kg	11.2	14	8.82	16.8	14	11.2 J A	11.4 J A
Copper	mg/kg	10.4	22.4 J Q	16.3	25.6 J Q	24.8 J Q	16.7	19
Vanadium	mg/kg	57.5	118 J A	59.8	136 J A	111 J A	65.5 J A	59.4 J A
Zinc	mg/kg	62	116 J A	80.5	138 J A	138 J A	75.7	82.6
Zirconium	mg/kg	7.45	4.39 J Z	8.4	3.54 J Z	5.13 J Z	9.12	7.69
Calcium	mg/kg	4660	6510	6840	8470	6570	5480	6370
Phosphorus	mg/kg	555	503	552	677	528	310	503
Selenium	mg/kg	0.202 J Z	0.412 J Q	0.215 J Z	0.483 J Q	0.510 J Q	0.294 J Z	0.269 J Z
Chromium VI	mg/kg	1.1 U	1.4	0.28 J Z	1.0 U	0.38 J Z	0.49 J Z	0.36 J Z
Perchlorate (314.0)	ug/kg	32.4 U	31.1 U	32.7 U	30.7 U	31.1 U	33.4 U	33.5 U
Perchlorate (6850)	ug/kg	4.1 J L, Z	--	--	--	--	--	--
Percent Moisture	%	7.4	3.4	8.3	2.2	3.4	10.3	10.4
pH	pH unit	5.9	6.9	6.84	7.08	6.96	7.29	7.32

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0	SL-036-SA5DS-SB-4.0-5.0
Sample Date		09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011	10/14/2011
SDG		DE253	DE257	DE270	DE257	DE270	DE270	DE269
Start Depth		0	0	2	0	4	9	4
End Depth		0.5	0.5	3	0.5	5	10	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.2 J Q	3.1	4.5 J Q	1.4	4.9 J Q	2.9 J Q	2.3
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	26500	30500	34000	31900	34200	28300	27200
Iron	mg/kg	33500	34900	33600	37400	36000	37800	33700 J E
Lead	mg/kg	15.3 J A	12.4 J Q	8.15 J Q	12.4 J Q	11.0 J Q	12.6 J Q	17.3 J Q, A
Lithium	mg/kg	40.6	31.2	35	31.6	31.2	40.4	32.7
Magnesium	mg/kg	8580	8030	8290	8840	8730	9470	8690
Manganese	mg/kg	371	344	306	370	367	304	352
Mercury	mg/kg	0.101 U	0.100 U	0.111 U	0.103 U	0.110 U	0.109 U	0.112 U B
Molybdenum	mg/kg	0.794 J Q	0.646 J Q	0.357	0.548 J Q	0.326	0.239 J Z	0.376
Nickel	mg/kg	26.2 J Q, A	28.7 J Q	19.3 J E, Q	27.8 J Q	26.2 J E, Q	25.5 J E, Q	20.8 J A
Potassium	mg/kg	6450	4150	3630	4980	4010	4670	3350 J Q
Silver	mg/kg	0.0435 J Q, Z	0.0371 J Q, Z	0.0183 J Z	0.0485 J Q, Z	0.0230 J FD, Z	0.275 U	0.112 U
Sodium	mg/kg	136	109	159	100 J Z	132	238	166
Strontium	mg/kg	51.6	65.3	58.5	40.3	47.1	42	59.3
Thallium	mg/kg	0.474 J Q	0.448 J Q	0.302	0.432 J Q	0.441	0.391	0.451
Tin	mg/kg	10.2 U B	10.4 U B	11.2 U B	10.3 U B	11.4 U B	11.0 U B	11.1 U B
Titanium	mg/kg	1520	1380	1740	1540	1820	1870	1650
Antimony	mg/kg	0.317 J Q	0.340 J Q	0.224 UJ B, Q	0.392 J Q	0.223 UJ FD, B, Q	0.550 UJ Q	0.276 J Q
Arsenic	mg/kg	8.40 J Q	8.25 J Q	5.25 J E, Q	7.40 J Q	6.85 J E, Q	7.79 J E, Q	10.4
Beryllium	mg/kg	0.621	1.13	0.808	1.16	0.879	0.87	1.04
Barium	mg/kg	146 J A	130	124	182	162	104	112 J A
Boron	mg/kg	15.9	13	3.70 J Z	15.5	4.91 J Z	3.84 J Z	5.56 U
Cadmium	mg/kg	0.282 J Q	0.304 J Q	0.137	0.304 J Q	0.162	0.136 J Z	0.0551 J Z
Chromium	mg/kg	47.7 J A	42.4 J Q	36.7	40.0 J Q	48.2	43.2	28.3 J A
Cobalt	mg/kg	12.6	15.0 J Q	15.7	13.9 J Q	15.5	25.6	13.0 J A
Copper	mg/kg	20.1 J Q	20.5 J Q	17.2	21.6 J Q	21.3	22.9	32.6 J A
Vanadium	mg/kg	97.5 J A	84.7	68.4 J E	79	99.3 J E	87.2 J E	74.7 J Q, A
Zinc	mg/kg	101 J A	97.6	70.6	102	91.9	91.1	101
Zirconium	mg/kg	2.88 J Z	3.67 J Z	5.18 J Z	4.78 J Z	5.12 J Z	4.89 J Z	8.51
Calcium	mg/kg	15900	29800	19600 J E	9210	9770 J E	8610 J E	7650
Phosphorus	mg/kg	571	437	347 J Q	511	258 J Q	646 J Q	635
Selenium	mg/kg	0.515 J Q	0.194 J Z	0.257 J Z	0.272 J Z	0.220 J FD, Z	0.165 J Z	0.110 J Z
Chromium VI	mg/kg	0.37 J Z	1.1 U	1.1 U	1.0 UJ FD	1.2 U	0.25 J Z	1.2 U
Perchlorate (314.0)	ug/kg	30.7 U	31.4 U	34.2 U	31.3 U	34.2 U	34.0 U	34.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	2.2	4.5	12.4	4	12.2	11.8	12.7
pH	pH unit	7.3	7.59	8.31	7.61	8.26	8.57	8.39

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011
SDG		DE269	DE269	DE269	DE256	DE269	DE269	DE270
Start Depth		9	4	9	0	4	9	3
End Depth		10	5	10	0.5	5	10	4
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	3.9	4.7	11.8	2.1 J Q	3.6	2.9	1.5 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	31400	36300	40000	21900	23200	23500	28100
Iron	mg/kg	32600 J E	35200 J E	40800 J E	25900	27200 J E	27100 J E	30900
Lead	mg/kg	10.6 J Q, A	11.3 J Q, A	13.9 J Q, A	8.57	8.01 J Q, A	8.06 J Q, A	10.1 J Q
Lithium	mg/kg	30.9	31.4	37.5	24.3	28.9	23.3	38.6
Magnesium	mg/kg	6960	8110	10200	6260	6980	5830	8820
Manganese	mg/kg	366	468	277	337	328	363	227
Mercury	mg/kg	0.109 U	0.112 U	0.112 U	0.0877 J Z	0.105 U	0.104 U	0.104 U
Molybdenum	mg/kg	0.517	0.524	0.872	0.41	0.443	0.53	0.235
Nickel	mg/kg	20.5 J A	23.4 J A	30.5 J A	14.6	17.9 J A	18.8 J A	24.3 J E, Q
Potassium	mg/kg	3050 J Q	3700 J Q	4230 J Q	5520	3760 J Q	2800 J Q	4320
Silver	mg/kg	0.0257 J Z	0.0479 J Z	0.0232 J Z	0.0234 J Z	0.0220 J Z	0.0413 J Z	0.0229 J Z
Sodium	mg/kg	130	166	240	85.8 J Z	135	120	145
Strontium	mg/kg	51.6	66.2	65.8	41.1 J E	60.3	38	91
Thallium	mg/kg	0.398	0.482	0.594	0.269	0.305	0.303	0.391
Tin	mg/kg	11.1 U B	11.4 U B	11.5 U B	9.88 U B	10.7 U B	10.7 U B	10.5 U B
Titanium	mg/kg	1650	1620	1570	1200	1300	1340	1480
Antimony	mg/kg	0.201 J Q, Z	0.308 J Q	0.378 J Q	0.122 J Q, Z	0.188 J Q, Z	0.221 J Q	0.208 UJ B, Q
Arsenic	mg/kg	7.22	6.69	8.96	4.65	5.74	6.82	4.97 J E, Q
Beryllium	mg/kg	0.929	1.01	1.27	0.58	0.688	0.794	0.769
Barium	mg/kg	150 J A	179 J A	199 J A	92	116 J A	117 J A	143
Boron	mg/kg	5.53 U	5.93	7.06	13.6	5.35 U	5.34 U	4.03 J Z
Cadmium	mg/kg	0.172	0.155	0.0708 J Z	0.237	0.194	0.146	0.131
Chromium	mg/kg	36.9 J A	38.9 J A	47.6 J A	29.8	33.6 J A	40.4 J A	44.7
Cobalt	mg/kg	13.4 J A	12.8 J A	17.6 J A	8.3	10.6 J A	10.0 J A	15
Copper	mg/kg	16.7 J A	17.2 J A	25.8 J A	11.6	13.1 J A	10.6 J A	19.2
Vanadium	mg/kg	77.1 J Q, A	77.7 J Q, A	96.5 J Q, A	53.6	65.0 J Q, A	72.6 J Q, A	78.6 J E
Zinc	mg/kg	77.1	84.3	109	61.1	68.8	64.9	90
Zirconium	mg/kg	5.63	4.87 J Z	4.87 J Z	4.84 J Z	4.26 J Z	6.16	4.05 J Z
Calcium	mg/kg	18600	14200	8540	14300 J E	34600	7550	25000 J E
Phosphorus	mg/kg	192	152	240	586	573	440	469 J Q
Selenium	mg/kg	0.175 J Z	0.142 J Z	0.172 J Z	0.292 J Z	0.199 J Z	0.122 J Z	0.294 J Z
Chromium VI	mg/kg	1.1 U	0.31 J Z	1.2 U	1.0 U	0.24 J Z	0.23 J Z	1.1 U
Perchlorate (314.0)	ug/kg	34.5 U	34.5 U	35.5 U	30.8 U	32.8 U	32.4 U	32.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.5 U
Percent Moisture	%	13.1	13.1	15.4	2.7	8.4	7.3	8.6
pH	pH unit	8.39	8.29	8.3	7.55	8.42	8.41	8.59

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
	Sample Date	09/28/2011	10/20/2011	10/20/2011
	SDG	DE257	DE273	DE273
	Start Depth	0	4	9
	End Depth	0.5	5	10
Chemical Name	Unit			
Nitrate	mg/kg	--	--	--
Fluoride	mg/kg	2.5	25.0 J Q	17.1 J Q
Cyanide	mg/kg	--	--	--
Aluminum	mg/kg	18000	31000 J E	23800 J E
Iron	mg/kg	22500	33900	31200
Lead	mg/kg	14.1 J Q	8.46 J Q, A	7.86 J Q, A
Lithium	mg/kg	17.7	31.3	30.1
Magnesium	mg/kg	4710	7700	7470
Manganese	mg/kg	369	295	339
Mercury	mg/kg	0.100 U	0.108 U	0.106 U B
Molybdenum	mg/kg	0.762 J Q	0.606	0.471
Nickel	mg/kg	17.7 J Q	19.5 J A	19.3 J A
Potassium	mg/kg	4120	3930 J Q	2760 J Q
Silver	mg/kg	0.0289 J Q, Z	0.0407 J Z	0.0203 J Z
Sodium	mg/kg	83.6 J Z	903	848
Strontium	mg/kg	25.8	34.3	28.2
Thallium	mg/kg	0.273 J Q	0.353	0.28
Tin	mg/kg	10.0 U B	10.8 U B	10.5 U B
Titanium	mg/kg	1270	1330	1240
Antimony	mg/kg	0.258 J Q	0.0827 J Q, Z	0.215 UJ Q
Arsenic	mg/kg	5.98 J Q	6.45 J Q	6.47 J Q
Beryllium	mg/kg	0.757	0.852 J Q	0.729 J Q
Barium	mg/kg	117	107	90.8
Boron	mg/kg	8.35	12.2	9.92
Cadmium	mg/kg	0.217 J Q	0.0595 J Z	0.108 U
Chromium	mg/kg	33.2 J Q	36.9 J Q, A	39.9 J Q, A
Cobalt	mg/kg	9.83 J Q	10.5 J A	10.7 J A
Copper	mg/kg	10.9 J Q	12.8 J A	10.4 J A
Vanadium	mg/kg	62.3	70.5 J A	67.5 J A
Zinc	mg/kg	61.2	69.5	62.7
Zirconium	mg/kg	3.49 J Z	8.67	8.22
Calcium	mg/kg	3090	3610	3970
Phosphorus	mg/kg	360	372	467
Selenium	mg/kg	0.188 J Z	0.112 J Z	0.164 J Z
Chromium VI	mg/kg	0.99 U	3.2	1.1 U
Perchlorate (314.0)	ug/kg	30.4 U	32.7 U	32.3 U
Perchlorate (6850)	ug/kg	2.3 J Z	--	--
Percent Moisture	%	1.3	8.3	7
pH	pH unit	6.27	8.05	7.35

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA5DS-SB-1.0-2.0	SL-010-SA5DS-SB-2.0-3.0	SL-019-SA5DS-SB-2.0-3.0
Sample Date		11/09/2011	11/08/2011	11/08/2011
SDG		DE283	DE282	DE282
Start Depth		1	2	2
End Depth		2	3	3
Chemical Name	Unit			
Ethanol	ug/kg	530 U	560 U	540 U
Methanol	ug/kg	530 U	560 U	540 U
2-Propanol	ug/kg	530 U	560 U	540 U
Ethylene Glycol	mg/kg	11 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	11 U
Propylene glycol	mg/kg	11 U	11 U	11 U
o-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
m-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
p-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
Formaldehyde	ug/kg	1600 U	1700 U	1600 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	120 U
RDX	ug/kg	130 U	130 U	120 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
HMX	ug/kg	320 U	330 U	310 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
Tetryl	ug/kg	130 U	130 U	120 U
Nitroglycerin	ug/kg	2500 U	2700 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	250 U	270 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	250 U	270 U	250 U
PETN	ug/kg	2500 U	2700 U	2500 U
2-Nitrotoluene	ug/kg	130 U	130 U	120 U
3-Nitrotoluene	ug/kg	130 U	130 U	120 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	120 U
4-Nitrotoluene	ug/kg	130 U	130 U	120 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	120 U
Nitrobenzene	ug/kg	130 U	130 U	120 U
m-Dinitrobenzene	ug/kg	130 U	130 U	120 U

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R - Result is rejected

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DX142	DX142	DX155	DX143	DX143	DX154	DX154
Start Depth		0	0	1.8	0	0	1	0
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.987 U	0.0574 J Z	0.0477 J Z	0.148 J Z	0.115 J Z	0.0258 J Z	0.0534 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.789 J Z	0.655 J Z	0.410 J Z	0.802 J Z	0.957 J Z	0.424 J Z	1.32 J Z
OCDD	ng/kg	135 J FD	54.8	4.74 J Z	69.4	41.3	6.06 J Z	38.5
1,2,3,4,6,7,8-HpCDD	ng/kg	13.6	6.48	5.21 U B	7.3	4.04 J Z	5.26 U B	4.09 J Z
OCDF	ng/kg	5.49 J Z	2.64 J Z	10.4 U B	3.08 J Z	1.59 J Z	10.5 U B	1.87 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.286 J Z	0.154 J Z	5.21 U B	0.224 J Z	0.193 J Z	5.26 U B	5.52 U B
1,2,3,7,8-PeCDD	ng/kg	0.246 J Z	0.152 J Z	0.0570 J Z	0.412 J Z	0.369 J Z	5.26 U B	0.185 J Z
2,3,7,8-TCDF	ng/kg	0.510 J Z	0.642 J Z	0.0565 J Z	0.339 J Z	0.133 J Z	0.0475 J Z	0.124 J FD, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.221 J Z	4.93 U B	5.21 U B	4.86 U B	4.97 U B	5.26 U B	5.52 U B
2,3,4,7,8-PeCDF	ng/kg	1.31 J Z	1.09 J Z	5.21 U B	0.944 J Z	0.691 J Z	5.26 U B	5.52 UJ B, FD
1,2,3,7,8-PeCDF	ng/kg	1.23 J FD, Z	0.473 J Z	5.21 U B	0.371 J Z	0.429 J Z	5.26 U B	0.293 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.419 J Z	0.224 J Z	5.21 U B	0.350 J Z	0.277 J Z	5.26 U B	0.215 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.734 J Z	0.529 J Z	0.204 J Z	0.749 J Z	0.747 J Z	0.257 J Z	0.903 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.314 J Z	0.401 J Z	5.21 U B	0.373 J Z	4.97 U B	5.26 U B	5.52 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	2.62 J Z	1.39 J Z	5.21 U B	1.37 J Z	0.908 J Z	5.26 U B	0.950 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.260 J FD, Z	0.480 J Z	5.21 U	0.345 J Z	0.312 J Z	5.26 U B	0.353 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.120 J Z	0.459 J Z	0.354 J Z	0.259 J Z	0.298 J Z	5.26 U B	0.501 J Z
Aroclor 1260	ug/kg	7.7	5.6	1.8 U	0.67 J Z	1.7 U	1.8 U	1.9 UJ FD
Aroclor 1254	ug/kg	8	4.3	1.5 J S, Z	0.51 J Z	1.7 U	1.8 U	1.8 J FD, Z, *#
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	2.4 J FD, Z	3.3 J Z	3.5 UJ E	1.2 J Z	3.4 U	3.5 U	1.7 J Z, C
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.3 U	3.4 U	3.5 UJ E	3.4 U	3.4 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.3 U	3.4 U	3.5 UJ E	3.4 U	3.4 U	3.5 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0	SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011	09/28/2011	10/18/2011
SDG		DX144	DX144	DX144	DX144	DX154	DX144	DX149
Start Depth		0	0	0	0	2	0	4
End Depth		0.5	0.5	0.5	0.5	3	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.993 U	0.0433 J Z	1.01 U	0.0545 J Z	0.0274 J Z	1.00 U	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	1.23 J Z	0.509 J Z	0.746 J Z	1.32 J Z	0.237 J Z	0.822 J Z	5.48 U B
OCDD	ng/kg	44.9	38.8	45.4	52.9	1.92 J Z	19.6	11.0 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	3.83 J Z	3.58 J Z	4.23 J Z	4.60 J Z	5.54 U B	1.78 J Z	5.48 U B
OCDF	ng/kg	2.20 J Z	1.53 J Z	2.43 J Z	1.93 J Z	11.1 U B	0.890 J Z	11.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	4.97 U	0.102 J Z	0.0814 J Z	0.102 J Z	0.0300 J Z	0.0821 J Z	5.48 U B
1,2,3,7,8-PeCDD	ng/kg	0.136 J Z	0.0916 J Z	0.142 J Z	0.186 J Z	5.54 U	0.195 J Z	5.48 U B
2,3,7,8-TCDF	ng/kg	0.121 J Z	0.137 J Z	0.196 J Z	0.226 J Z	1.11 U	0.0930 J Z	0.0307 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	4.97 U B	4.90 U B	5.05 U B	5.02 U B	5.54 U B	5.02 U B	5.48 U B
2,3,4,7,8-PeCDF	ng/kg	0.291 J Z	4.90 U B	5.05 U	5.02 U B	5.54 U B	0.290 J Z	5.48 U B
1,2,3,7,8-PeCDF	ng/kg	4.97 U B	0.130 J Z	0.183 J Z	0.333 J Z	0.0832 J Z	0.306 J Z	5.48 U B
1,2,3,6,7,8-HxCDF	ng/kg	4.97 U B	4.90 U B	5.05 U B	5.02 U B	5.54 U B	5.02 U B	5.48 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.934 J Z	0.416 J Z	0.571 J Z	0.994 J Z	0.184 J Z	0.632 J Z	0.0758 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.180 J Z	0.194 J Z	0.202 J Z	0.215 J Z	5.54 U B	0.0908 J Z	5.48 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.809 J Z	0.676 J Z	0.958 J Z	0.834 J Z	5.54 U B	5.02 U B	5.48 U B
1,2,3,4,7,8-HxCDF	ng/kg	4.97 U B	0.221 J Z	5.05 U B	0.323 J Z	5.54 U B	5.02 U B	5.48 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.671 J Z	0.228 J Z	0.483 J Z	0.825 J Z	0.222 J Z	0.316 J Z	5.48 U B
Aroclor 1260	ug/kg	1.5 J Z	1.7 U	1.8 J S	1.2 J Z	1.9 U	1.7 U	1.9 U
Aroclor 1254	ug/kg	1.2 J Z	1.6 J Z	2.0 J S	2	1.9 U	1.2 J S, Z	1.9 U
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5460	ug/kg	3.3	3.1 J Z	3.5 J S	3.1 J Z	3.7 U	1.9 J S, Z	3.7 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5442	ug/kg	3.3 U	3.3 U	3.4 U	3.3 U	3.7 U	3.4 U	3.7 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5432	ug/kg	3.3 U	3.3 U	3.4 U	3.3 U	3.7 U	3.4 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011
SDG		DX144	DX144	DX149	DX144	DX150	DX144	DX143
Start Depth		0	0	3.5	0	4	0	0
End Depth		0.5	0.5	4.5	0.5	5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.967 U	1.01 U	0.0480 J Z	1.03 U	1.08 U	0.0586 J Z	1.00 U
1,2,3,7,8,9-HxCDD	ng/kg	0.984 J Z	0.834 J Z	0.264 J Z	0.787 J Z	5.42 U B	1.06 J Z	0.929 J Z
OCDD	ng/kg	146	34.3	2.44 J Z	40.7	10.8 U B	71.4	34.3
1,2,3,4,6,7,8-HpCDD	ng/kg	6.74	2.73 J Z	5.44 U B	3.72 J Z	5.42 U B	7.14	3.67 J Z
OCDF	ng/kg	2.71 J Z	1.16 J Z	10.9 U B	1.78 J Z	10.8 U B	2.56 J Z	1.48 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0886 J Z	0.127 J Z	5.44 U B	0.0651 J Z	5.42 U B	0.136 J Z	0.0878 J Z
1,2,3,7,8-PeCDD	ng/kg	0.234 J Z	0.170 J Z	5.44 U B	0.159 J Z	5.42 U B	0.208 J Z	0.115 J Z
2,3,7,8-TCDF	ng/kg	0.162 J Z	0.0574 J Z	0.0938 J Z	0.132 J Z	0.0249 J Z	0.589 J Z	0.176 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	4.83 U B	5.03 U	5.44 U B	5.17 U B	5.42 U	5.06 U B	5.02 U B
2,3,4,7,8-PeCDF	ng/kg	0.431 J Z	5.03 U B	5.44 U B	5.17 U B	5.42 U B	1.11 J Z	5.02 U B
1,2,3,7,8-PeCDF	ng/kg	0.294 J Z	0.188 J Z	0.193 J Z	0.165 J Z	5.42 U B	0.295 J Z	0.231 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.215 J Z	5.03 U B	0.117 J Z	5.17 U B	5.42 U B	0.278 J Z	0.142 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.994 J Z	0.514 J Z	0.199 J Z	0.584 J Z	5.42 U B	1.02 J Z	0.633 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.205 J Z	0.126 J Z	5.44 U B	0.148 J Z	5.42 U B	0.341 J Z	5.02 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.14 J Z	5.03 U B	5.44 U B	0.771 J Z	5.42 U B	1.42 J Z	0.730 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.283 J Z	5.03 U	5.44 U B	0.258 J Z	0.0316 J Z	0.464 J Z	0.364 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.507 J Z	0.521 J Z	5.44 U B	0.565 J Z	5.42 U B	0.500 J Z	0.504 J Z
Aroclor 1260	ug/kg	0.92 J Z	1.7 U	1.9 U	2.2 J S	1.8 U	9.3 J S	0.52 J Z
Aroclor 1254	ug/kg	0.92 J Z	3.5 J S	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	2.4 J Z	1.5 J S, Z	3.6 U	2.9 J S, Z	3.6 U	5.9 J S	3.3 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.3 U	3.4 U	3.6 U	3.5 U	3.6 U	3.4 U	3.3 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.3 U	3.4 U	3.6 U	3.5 U	3.6 U	3.4 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5
Sample Date		11/08/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DX154	DX143	DX143	DX154	DX143	DX154	DX143
Start Depth		2	0	0	2	0	4	0
End Depth		3	0.5	0.5	3	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	1.00 U	0.0407 J Z	1.05 U	0.997 U	1.04 U	0.994 U
1,2,3,7,8,9-HxCDD	ng/kg	0.0841 J Z	0.958 J Z	0.785 J Z	0.144 J Z	0.947 J Z	0.154 J Z	0.524 J Z
OCDD	ng/kg	10.8 U B	72.6	26.2	2.31 J Z	83	10.4 U B	35.2
1,2,3,4,6,7,8-HpCDD	ng/kg	5.38 U B	5.45	2.37 J Z	5.24 U B	5.45	5.21 U B	3.76 J Z
OCDF	ng/kg	10.8 U B	2.43 J Z	1.11 J Z	10.5 U B	2.47 J Z	10.4 U B	1.73 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0219 J Z	0.0998 J Z	0.0334 J Z	5.24 U	0.126 J Z	5.21 U B	0.100 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0273 J Z	0.144 J Z	0.113 J Z	5.24 U	0.134 J Z	5.21 U B	0.130 J Z
2,3,7,8-TCDF	ng/kg	1.08 U B	0.218 J Z	0.143 J Z	1.05 U	0.247 J Z	0.0278 J Z	0.193 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	0.189 J Z	5.21 U B	4.97 U B
2,3,4,7,8-PeCDF	ng/kg	5.38 U B	5.02 U B	0.260 J Z	5.24 U B	4.99 U B	5.21 U B	0.228 J Z
1,2,3,7,8-PeCDF	ng/kg	5.38 U B	0.187 J Z	0.148 J Z	5.24 U B	0.169 J Z	5.21 U B	0.248 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.38 U B	0.212 J Z	4.93 U B	5.24 U B	0.208 J Z	5.21 U B	0.167 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.38 U B	0.777 J Z	0.622 J Z	5.24 U B	0.721 J Z	0.122 J Z	0.462 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	4.99 U B	5.21 U B	4.97 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.38 U B	1.14 J Z	4.93 U B	5.24 U B	1.30 J Z	5.21 U B	0.770 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	0.323 J Z	5.21 U B	0.255 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.38 U B	0.330 J Z	0.400 J Z	5.24 U B	0.413 J Z	5.21 U B	0.295 J Z
Aroclor 1260	ug/kg	1.8 U	0.87 J Z	0.71 J Z	1.9 U	0.97 J S, Z	1.8 U	0.75 J S, Z
Aroclor 1254	ug/kg	1.8 U	1.2 J Z	0.89 J Z	1.9 U	1.2 J S, Z	1.8 U	0.64 J S, Z
Aroclor 1268	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.6 U	2.0 J Z	1.6 J Z	3.6 U	2.0 J S, Z	3.5 U	1.6 J S, Z
Aroclor 1232	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.6 U	3.3 U	3.3 U	3.6 U	3.4 U	3.5 U	3.4 U
Aroclor 1248	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.6 U	3.3 U	3.3 U	3.6 U	3.4 U	3.5 U	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011
SDG		DX143	DX143	DX142	DX150	DX150	DX142	DX142
Start Depth		0	0	0	4	9	0	0
End Depth		0.5	0.5	0.5	5	10	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.01 U	0.0797 J Z	9.85 U	1.05 U	0.0537 J Z	0.973 U	0.971 U
1,2,3,7,8,9-HxCDD	ng/kg	0.347 J Z	0.355 J Z	49.2 U	5.27 U B	5.40 U B	0.249 J Z	0.320 J Z
OCDD	ng/kg	39	35.4	49.6 J Z	3.60 J Z	10.8 U B	55	57.5
1,2,3,4,6,7,8-HpCDD	ng/kg	3.77 J Z	3.66 J Z	6.83 J Z	5.27 U B	5.40 U B	9.15	7.1
OCDF	ng/kg	2.18 J Z	1.39 J Z	8.98 J Z	10.5 U B	10.8 U B	2.01 J Z	3.00 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.134 J Z	0.142 J Z	49.2 U	5.27 U B	5.40 U	4.87 U	0.301 J Z
1,2,3,7,8-PeCDD	ng/kg	0.169 J Z	0.227 J Z	49.2 U	5.27 U	5.40 U B	4.87 U	0.188 J Z
2,3,7,8-TCDF	ng/kg	0.223 J Z	0.458 J Z	1.10 J Z	0.0251 J Z	0.0563 J Z	0.108 J Z	0.788 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.04 U B	4.92 U B	4.10 J Z	5.27 U B	5.40 U B	0.597 J Z	0.156 J Z
2,3,4,7,8-PeCDF	ng/kg	0.338 J Z	0.773 J Z	9.93 J Z	5.27 U B	5.40 U	0.427 J Z	0.855 J Z
1,2,3,7,8-PeCDF	ng/kg	0.227 J Z	0.329 J Z	3.87 J Z	5.27 U B	5.40 U B	0.190 J Z	0.179 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.123 J Z	0.234 J Z	3.91 J Z	5.27 U B	5.40 U B	4.87 U	0.461 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.313 J Z	0.359 J Z	0.485 J Z	5.27 U B	5.40 U B	0.356 J Z	0.451 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.04 U B	4.92 U B	4.40 J Z	5.27 U B	5.40 U B	0.372 J Z	0.470 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	0.824 J Z	0.771 J Z	5.02 J Z	5.27 U B	5.40 U B	0.893 J Z	1.78 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.04 U B	0.589 J Z	11.3 J Z	0.0647 J Z	0.0689 J Z	0.256 J Z	0.594 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.04 U B	0.219 J Z	3.86 J Z	5.27 U B	5.40 U B	0.272 J Z	0.109 J Z
Aroclor 1260	ug/kg	1.7 U	3.3	170 U	1.8 U	1.9 U	1.7 U	0.98 J Z
Aroclor 1254	ug/kg	0.89 J Z	5	1500	0.65 J L, Z	1.8 J L, Z	1.7 U	1.9
Aroclor 1268	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	1.3 J Z	1.3 J Z	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.3 U	3.3 U	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.3 U	3.3 U	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-028-SA5DS-SB-1.9-2.9	SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0
Sample Date		11/11/2011	09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011
SDG		DX155	DX142	DX155	DX142	DX142	DX155	DX155
Start Depth		1.9	0	3.5	0	0	4	9
End Depth		2.9	0.5	4.5	0.5	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	0.998 U	1.09 U	1.01 U	0.0792 J Z	1.07 U	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	0.138 J Z	4.99 U B	5.44 U B	5.05 U B	0.479 J Z	0.174 J Z	5.57 U B
OCDD	ng/kg	5.55 J Z	12.7	10.9 U B	28.5	77.9	2.31 J Z	2.45 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.40 U B	1.51 J Z	5.44 U B	3.49 J Z	8.56	5.36 U B	5.57 U B
OCDF	ng/kg	10.8 U B	1.09 J Z	10.9 U B	1.79 J Z	3.07 J Z	10.7 U B	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.40 U B	0.0913 J Z	5.44 U B	0.0932 J Z	0.173 J Z	5.36 U	5.57 U B
1,2,3,7,8-PeCDD	ng/kg	0.176 J Z	4.99 U	5.44 U	0.0762 J Z	0.183 J Z	0.101 J Z	5.57 U
2,3,7,8-TCDF	ng/kg	0.242 J Z	0.166 J Z	1.09 U	1.01 U B	0.674 J Z	1.07 U	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.40 U B	4.99 U	5.44 U B	5.05 U B	0.145 J Z	5.36 U B	5.57 U B
2,3,4,7,8-PeCDF	ng/kg	5.40 U B	0.655 J Z	5.44 U B	5.05 U	5.18 U B	5.36 U B	5.57 U B
1,2,3,7,8-PeCDF	ng/kg	0.262 J Z	0.629 J Z	5.44 U B	5.05 U B	0.294 J Z	5.36 U B	5.57 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.40 U B	0.336 J Z	5.44 U B	0.111 J Z	0.170 J Z	5.36 U B	5.57 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.40 U B	4.99 U B	5.44 U B	5.05 U B	0.504 J Z	0.250 J Z	5.57 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.40 U B	0.202 J Z	5.44 U B	5.05 U B	0.176 J Z	5.36 U B	5.57 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.40 U B	0.542 J Z	5.44 U B	0.797 J Z	1.42 J Z	5.36 U B	5.57 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.145 J Z	0.605 J Z	5.44 U B	0.112 J Z	0.162 J Z	5.36 U B	5.57 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.40 U B	0.122 J Z	5.44 U B	0.0578 J Z	5.18 U	5.36 U B	5.57 U B
Aroclor 1260	ug/kg	0.95 J Z	5	1.8 U	1.3 J Z	1.8 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	4.9	15	9.8 J S	2.3	2.4	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0	SL-036-SA5DS-SB-4.0-5.0
Sample Date		09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011	10/14/2011
SDG		DX143	DX144	DX151	DX146	DX151	DX151	DX149
Start Depth		0	0	2	0	4	9	4
End Depth		0.5	0.5	3	0.5	5	10	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.02 U	1.01 U	1.14 U	1.03 U	1.10 UJ FD	1.11 U	0.0632 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.09 U B	0.127 J Z	5.70 U B	0.133 J Z	5.49 UJ B, FD	5.55 U B	5.73 U B
OCDD	ng/kg	26.9	2.21 J Z	11.4 U B	9.33 J Q, Z	11.0 U B	11.1 U B	11.5 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	2.95 J Z	0.444 J Z	5.70 U B	5.13 U B	5.49 U B	5.55 U B	5.73 U B
OCDF	ng/kg	1.27 J Z	10.1 U B	11.4 U B	0.613 J Z	11.0 U B	11.1 U B	11.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0950 J Z	0.0425 J Z	0.0241 J Z	5.13 UJ FD	5.49 UJ FD	5.55 U	5.73 U B
1,2,3,7,8-PeCDD	ng/kg	0.0740 J Z	0.0490 J Z	0.0393 J Z	5.13 UJ FD	5.49 UJ FD	0.0265 J Z	0.391 J Z
2,3,7,8-TCDF	ng/kg	0.197 J Z	1.01 U	1.14 U	1.03 UJ FD	1.10 U	1.11 U	0.0811 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ FD	5.55 U B	5.73 U B
2,3,4,7,8-PeCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 U B	5.49 UJ B, FD	5.55 U B	0.357 J Z
1,2,3,7,8-PeCDF	ng/kg	0.325 J Z	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	0.479 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	0.281 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.09 U B	5.04 U B	0.0230 J Z	0.0828 J Z	0.0442 J FD, Z	0.0328 J Z	0.197 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.09 U B	0.0401 J Z	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	5.73 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 U B	5.55 U B	5.73 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.326 J Z	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	5.73 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.09 U B	0.112 J Z	5.70 U B	5.13 UJ B, FD	5.49 U B	5.55 U B	5.73 U B
Aroclor 1260	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	7.9	2.6 J S	1.9 U	1.8 UJ FD	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U
Aroclor 1232	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011
SDG		DX149	DX149	DX149	DX143	DX149	DX149	DX151
Start Depth		9	4	9	0	4	9	3
End Depth		10	5	10	0.5	5	10	4
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U	0.114 J Z	1.17 U	0.0367 J Z	1.08 U	1.04 U	1.08 U
1,2,3,7,8,9-HxCDD	ng/kg	0.690 J Z	0.488 J Z	5.83 U B	0.633 J Z	5.38 U B	5.22 U B	5.42 U B
OCDD	ng/kg	11.3 U B	11.5 U B	11.7 U B	23.9	10.8 U B	10.4 U B	10.8 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.64 U B	5.75 U B	5.83 U B	2.06 J Z	5.38 U B	5.22 U B	5.42 U B
OCDF	ng/kg	11.3 U B	11.5 U B	11.7 U B	1.98 J Z	10.8 U B	10.4 U B	10.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.0632 J Z	5.38 U B	5.22 U	0.0298 J Z
1,2,3,7,8-PeCDD	ng/kg	5.64 U B	5.75 U B	5.83 U	0.161 J Z	5.38 U	5.22 U B	0.0475 J Z
2,3,7,8-TCDF	ng/kg	0.0589 J Z	0.0416 J Z	1.17 U	0.0661 J Z	1.08 U	1.04 U	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	5.09 U B	5.38 U B	5.22 U B	5.42 U B
2,3,4,7,8-PeCDF	ng/kg	5.64 U B	0.285 J Z	5.83 U B	0.237 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,7,8-PeCDF	ng/kg	0.267 J Z	0.301 J Z	5.83 U B	0.281 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.166 J Z	5.75 U B	5.83 U B	0.132 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.286 J Z	0.239 J Z	5.83 U	0.408 J Z	5.38 U	5.22 U	0.0385 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	5.09 U B	5.38 U	5.22 U B	5.42 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.685 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.297 J Z	5.38 U	5.22 U B	5.42 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.725 J Z	0.657 J Z	5.83 U B	0.414 J Z	5.38 U B	5.22 U B	5.42 U B
Aroclor 1260	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1254	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U
Aroclor 1232	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	2.0 UJ S	2.0 U	2.0 U	0.72 J Z	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
Sample Date		09/28/2011	10/20/2011	10/20/2011
SDG		DX146	DX150	DX150
Start Depth		0	4	9
End Depth		0.5	5	10
Chemical Name	Unit			
2,3,7,8-TCDD	ng/kg	1.01 U	1.08 U	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	0.648 J Z	5.40 U B	5.34 U B
OCDD	ng/kg	109	10.8 U B	10.7 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	10.8	5.40 U B	5.34 U B
OCDF	ng/kg	4.60 J Z	10.8 U B	10.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.341 J Z	5.40 U B	5.34 U
1,2,3,7,8-PeCDD	ng/kg	5.06 U B	5.40 U B	5.34 U B
2,3,7,8-TCDF	ng/kg	0.186 J Z	1.08 U	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.128 J Z	5.40 U B	5.34 U B
2,3,4,7,8-PeCDF	ng/kg	5.06 U B	5.40 U B	5.34 U B
1,2,3,7,8-PeCDF	ng/kg	0.201 J Z	5.40 U B	5.34 U
1,2,3,6,7,8-HxCDF	ng/kg	5.06 U B	5.40 U B	5.34 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.696 J Z	5.40 U B	5.34 U B
2,3,4,6,7,8-HxCDF	ng/kg	0.172 J Z	5.40 U B	5.34 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.38 J Z	5.40 U B	5.34 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.275 J Z	0.0409 J Z	0.0471 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.585 J Z	5.40 U B	5.34 U B
Aroclor 1260	ug/kg	1.5 J Z	1.8 U	1.8 U
Aroclor 1254	ug/kg	0.85 J Z	1.8 U	1.8 U
Aroclor 1268	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	2.9 J Z	3.6 UJ E	3.5 UJ E
Aroclor 1232	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.3 U	3.6 UJ E	3.5 UJ E
Aroclor 1248	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.3 U	3.6 UJ E	3.5 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A11
Pesticides-Validated Data
HSA-5DS

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-006-SA5DS-SS-0.0-0.5	SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	09/27/2011	09/27/2011	09/27/2011	09/28/2011	09/28/2011	09/28/2011
SDG		DE253	DE253	DE256	DE256	DE256	DE257	DE257	DE257
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 R Q	1.7 U	1.7 U	1.7 U	--	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 R Q	1.2 U	1.2 U	1.2 U	--	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 R Q	9.1 U	9.2 U	9.1 U	--	9.1 U	9.1 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R Q, L	2.4 R L	2.4 U	2.4 U	--	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 R Q	250 U	250 U	250 U	--	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.17 R Q	0.17 U	0.19	0.75	--	0.25 U	0.21 U	0.3
2,4,5-T	ug/kg	0.50 U	0.17 U	0.32 U	0.17 U	--	0.59 U	0.17 U	0.17 U
MCPA	ug/kg	250 R Q	250 U	250 U	250 U	--	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.7 U	3.7 U	--	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	2.0 R Q	1.7	6.4	3.0 U	--	2.2 U	2.4 U	1.7 U
Toxaphene	ug/kg	13 U	15	10	6.7 U	7.2 U	6.7 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.14 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 UJ FD	0.052 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.038 J Z	0.071 J Z
Endosulfan II	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
4,4'-DDT	ug/kg	1.2	2.4	0.86	0.35 U	0.63 J S	0.64 J S	0.56	0.56
Endrin Ketone	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Chlordane	ug/kg	2.0 J FD, Z	8	7.4	3.5 U	3.8 J S	1.9 J S, Z	1.9 J Z	2.0 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.040 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.48 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 R Q	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.52	2.8	0.35 U	0.35 U	1.0 J S	0.78 J S	0.53	0.31 J Z
Endrin Aldehyde	ug/kg	0.43 J Q	0.49	0.50 U	0.35 U	0.35 U	0.34 U	0.34 U	0.089 J Z
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SS-0.0-0.5	SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SS-0.0-0.5	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5	SL-020-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/27/2011	09/27/2011
SDG		DE257	DE257	DE257	DE257	DE257	DE257	DE256	DE256
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 U	1.7 U	1.0 J Z	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.1 U	9.2 U	9.4 U	9.1 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.5 U	2.5 U	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 U	250 U	250 U	260 U	260 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.19	0.27	0.29	0.17 U	0.18 U	0.17 U	0.26	0.45
2,4,5-T	ug/kg	0.32 U	0.85 U	0.29 U	0.48 U	0.18 U	0.17 U	0.17 U	0.20 U
MCPA	ug/kg	250 U	250 U	250 U	260 U	260 U	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U
2,4 DB	ug/kg	56 U	36 U	18 U	14 U	8.9 U	8.6 U	1.7 U	1.7 U
Toxaphene	ug/kg	6.7 U	6.7 U	6.7 U	6.8 U	6.9 U	18 UJ S	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.076 J Z	0.17 UJ S	0.17 U	0.17 U
Beta-BHC	ug/kg	0.078 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Delta-BHC	ug/kg	0.061 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan II	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
4,4'-DDT	ug/kg	0.63	0.35 U	0.42	0.31 J Z	0.59	2.9 J S	0.34 U	0.99
Endrin Ketone	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Chlordane	ug/kg	3.0 J Z	1.7 J Z	1.7 J Z	1.8 J Z	2.5 J Z	4.4 J S	3.4 U	2.9 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.42	0.35 U	0.35	0.24 J Z	0.41 U	2.2 J S	0.23 J Z	1
Endrin Aldehyde	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.99 J S	0.086 J Z	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.077 J Z	0.17 UJ S	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A11
Pesticides-Validated Data
HSA-5DS

Sample Name		SL-021-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SS-0.0-0.5	SL-023-SA5DS-SS-0.0-0.5	SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/27/2011	09/27/2011	09/27/2011	09/26/2011	09/26/2011	09/26/2011
SDG		DE256	DE256	DE256	DE256	DE256	DE253	DE253	DE253
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.2 U	9.2 U	9.1 U	9.2 U	9.1 U	9.1 U	9.0 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.86 J L, Z	2.4 R L	2.4 R L
MCPP	ug/kg	250 U	250 U	250 U	250 U	260 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.13 J Z	0.5	0.17 U	0.41	0.78	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.17 U	0.20 U	0.36 U	1.9	0.17 U	0.42	0.17 U	0.26
MCPA	ug/kg	250 U	250 U	250 U	250 U	260 U	250 U	250 U	120 J Z
2,4-D	ug/kg	3.7 U	4.2	3.7 U	3.7 U	3.7 U	3.6 U	3.6 U	3.6 U
2,4 DB	ug/kg	29 U	8.8	3.2 U	1.7 U	1.8 U	5.9	4.7	6.3 U
Toxaphene	ug/kg	2.6 J Z	6.7 U	6.7 UJ S	6.7 U	6.7 U	1400 U	50 U	60 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	83 U	0.84 U	0.83 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Mirex	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	2.8 U	1.8 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.079 J Z	17 U	0.84 U	0.83 U
Delta-BHC	ug/kg	0.17 U	0.046 J Z	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Endosulfan II	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	46 U	1.7 U	1.8 U
4,4'-DDT	ug/kg	0.34 U	0.77	0.38 J S	0.34 U	0.67 U	170 U	1.3 J Z	7
Endrin Ketone	ug/kg	0.34 U	0.097 J Z	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Chlordane	ug/kg	1.6 J Z	5.8	1.8 J S, Z	3.4 U	2.5 J Z	510 U	17 U	10 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Dieldrin	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	50 U	1.7 U	2.1 U
Endrin	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	59 U	1.7 U	1.7 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U	170 U	8.4 U	8.3 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
4,4'-DDE	ug/kg	0.34 U	0.68	0.25 J S, Z	0.34 U	0.35 U	270 U	1.1 J Z	1.7 U
Endrin Aldehyde	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Endosulfan I	ug/kg	0.21 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-029-SA5DS-SS-0.0-0.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	09/26/2011	09/26/2011	09/28/2011	09/28/2011	09/27/2011	09/28/2011
SDG		DE253	DE253	DE253	DE253	DE257	DE257	DE256	DE257
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.6 J Z	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.61 J Z	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.2 U	9.3 U	9.2 U	9.4 U	9.3 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R L	2.5 R L	2.5 R L	2.5 U	2.5 U	2.5 R L	2.4 U
MCPP	ug/kg	260 U	260 U	260 U	260 U	260 U	260 U	260 U	250 U
2,4,5-TP	ug/kg	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.44 J FD, Q	0.090 J Z	0.62
2,4,5-T	ug/kg	0.18 U	0.17 U	0.18 U	0.15 J Z	0.18 U	0.18 U	0.17 U	0.17 U
MCPA	ug/kg	260 U	260 U	260 U	260 U	260 U	260 U	870	250 U
2,4-D	ug/kg	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U
2,4 DB	ug/kg	1.7 J Z	1.7 U	3.2	1.7	1.8 U	3.5 U	100 U	2.6 U
Toxaphene	ug/kg	17 U	42 U	10	10 U	6.9 U	6.9 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.53 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Mirex	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.090 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ FD	0.17 U	0.081 J Z
Delta-BHC	ug/kg	0.35	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.36 U	0.4	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
4,4'-DDT	ug/kg	3.5 U	0.60 U	2.9	0.94 U	0.35 U	0.22 J FD, Z	0.35 U	0.34 U
Endrin Ketone	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Chlordane	ug/kg	3.3 J Z	3.4 J Z	6.2	2.6 J Z	3.5 U	0.90 J FD, Z	1.1 J Z	3.4 U
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.18	0.17 U	0.057 J Z	0.17 U	0.038 J FD, Z	0.17 U	0.053 J Z
Dieldrin	ug/kg	1.2 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Endrin	ug/kg	0.45 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	0.81 J Z	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.35 U	0.35 U	0.42 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
4,4'-DDE	ug/kg	2.1 U	0.86	2.2	1.2	0.35 U	0.10 J FD, Z	0.35 U	0.34 U
Endrin Aldehyde	ug/kg	0.53 U	1.5 U	0.73	0.46	0.35 U	0.35 UJ FD	0.35 U	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.089 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5	SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011
SDG		DE253	DE253	DE286	DE256	DE256	DE283	DE283	DE257	DE257	DE257	DE257	DE282
Start Depth		0	0	1.8	0	0	1	0	0	0	0	0	2
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	3
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	35.2 U	--	--	--	--	--	36.8 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Nitrobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Hexachlorobutadiene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Nitrophenol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Chloroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Phenol	ug/kg	170 UJ FD	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	19 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	13 J Q, Z	21	11 J Z	12 J Z	--	19	20 UJ FD	10 J Z	14 J Z	9.5 J Z	18 U	10 J Z
Di-N-Octyl Phthalate	ug/kg	6.9 J FD, Z	11 J Z	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Hexachlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Anthracene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Pyrene (8270C)	ug/kg	24 J Z	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	2.5	1.8 U	2.3	1.7	0.73 J Z	1.8 UJ FD	1.0 J Z	1.3 J Z	1.5 J Z	1.4 J Z	1.9 U
Dimethylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Dibenzofuran	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.2 J Z	1.8 U	1.1 J Z	1.7 U	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U	0.88 J Z	1.8 U	1.1 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.2 J FD	7.1	0.72 J Z	7.5	3.3	0.86 J Z	1.8 UJ FD	4.9	1.5 J Z	1.4 J Z	1.5 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	36 J Z	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	2.9	1.8 U	2.9	1.9	0.89 J Z	1.8 UJ FD	1.0 J Z	1.6 J Z	1.7	1.8	1.9 U
Benzo(k)fluoranthene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 UJ FD	1.7 U	3.1	2.7	3.7	1.9 U
Acenaphthylene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.49 J Z	2.6	0.70 J Z	2.1	1.4 J Z	0.67 J Z	0.41 J FD, Z	0.84 J Z	1.2 J Z	1.2 J Z	1.3 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.9	1.8 U	1.6 J Z	1.0 J Z	1.7 U	1.8 UJ FD	1.7 U	0.87 J Z	0.84 J Z	0.89 J Z	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1000 U	1000 U	1000 U	1100 U	1000 U	1000 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 UJ L	510 UJ L	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Benzo(a)anthracene	ug/kg	1.7 U	0.96 J Z	1.8 U	0.81 J Z	0.76 J Z	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Aniline	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Benzoic Acid	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Hexachloroethane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Isophorone	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Acenaphthene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Diethylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Di-n-Butylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Phenanthrene	ug/kg	35 J Z	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	--	1.9	1.8 U	2	1.1 J Z	1.7 U	1.8 UJ FD	1.7 U	0.77 J Z	1.1 J Z	0.90 J Z	1.9 U
Butylbenzylphthalate	ug/kg	18 U	7.1 J Z	19 U	18 U	18 U	11 J Z	20 U	18 U	11 J Z	18 U	18 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Fluorene	ug/kg	1.7 U	1.7	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Carbazole	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Pentachlorophenol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Nitrophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1-Methylnaphthalene	ug/kg	1.7 U	1.7 U	1.8 U	0.78 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Naphthalene	ug/kg	1.7 U	1.3 J Z	1.8 U	3.5	0.71 J Z	1.7 U	1.8 UJ FD	1.7 U	0.77 J Z	0.96 J Z	0.84 J Z	1.9 U
2-Methylnaphthalene	ug/kg	1.7 U	0.70 J Z	1.8 U	1.2 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 UJ C	180 UJ C	170 U	170 U	170 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	330 U	340 U	350 U	340 U	340 U	350 U	370 U	340 U	340 U	340 U	340 U	370 U
Benzidine	ug/kg	3300 R Q	3400 U	3500 U	3400 U	3400 U	3500 U	3700 R Q	3400 U	3400 U	3400 U	3400 U	3700 U
2-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Chlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
3-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzyl Alcohol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0	SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	10/18/2011	09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011	11/08/2011	09/27/2011	09/27/2011
SDG		DE257	DE271	DE257	DE257	DE271	DE257	DE272	DE257	DE256	DE282	DE256	DE256
Start Depth		0	4	0	0	3.5	0	4	0	0	2	0	0
End Depth		0.5	5	0.5	0.5	4.5	0.5	5	0.5	0.5	3	0.5	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	36.1 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Phenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	6.5 J Z	20 U	130	15 J Z	20 U	10 J Z	19 U	15 J Z	18 U	12 J Z	16 J Z	7.1 J Z
Di-N-Octyl Phthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Hexachlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Anthracene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.6 J Z	1.5 J Z	1.8 U	1.3 J Z	1.8 U	3.1	1.7 U	1.8 U	1.6 J Z	0.86 J Z
Dimethylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	0.68 J Z	1.7 U	1.8 U	0.71 J Z	1.7 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	0.67 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.5	1.9 U	4.7	4.2	1.8 U	5.9	1.8 U	13	1.4 J Z	1.8 U	3.8	4
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.7	1.5 J Z	1.8 U	1.4 J Z	1.8 U	3.6	1.7 U	1.8 U	1.9	0.98 J Z
Benzo(k)fluoranthene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Acenaphthylene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.81 J Z	1.9 U	1.4 J Z	1.2 J Z	1.8 U	1.2 J Z	1.8 U	3.5	0.36 J Z	1.8 U	1.7	0.93 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.74 J Z	1.9 U	1.1 J Z	0.88 J Z	1.8 U	0.85 J Z	1.8 U	2.3	1.7 U	1.8 U	1.1 J Z	1.7 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.0 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene	ug/kg	1.7 U	1.9 U	0.68 J Z	1.7 U	1.8 U	1.7 U	1.8 U	1.1 J Z	1.7 U	1.8 U	0.76 J Z	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Aniline	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Benzoic Acid	ug/kg	500 U	1200	510 U	510 U	390 J Z	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Hexachloroethane	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Isophorone	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Acenaphthene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Diethylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Di-n-Butylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	0.75 J Z	1.9 U	1.0 J Z	1.0 J Z	1.8 U	1.1 J Z	1.8 U	1.4 J Z	1.7 U	1.8 U	1.0 J Z	0.76 J Z
Butylbenzylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	48	18 U	19 U	6.6 J Z	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Fluorene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	0.81 J Z	1.8 U	1.3 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Pentachlorophenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Naphthalene	ug/kg	0.73 J Z	1.9 U	0.80 J Z	0.69 J Z	1.8 U	0.75 J Z	1.8 U	0.95 J Z	1.7 U	1.8 U	1.0 J Z	1.7 U
2-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	380 U	340 U	340 U	370 U	350 U	360 U	340 U	340 U	360 U	340 U	340 U
Benzidine	ug/kg	3400 U	3800 UJ Q	3400 U	3400 U	3700 U	3500 U	3600 R Q	3400 U	3400 U	3600 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5	SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SB-1.9-2.9
Sample Date		11/09/2011	09/27/2011	11/09/2011	09/27/2011	09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011	11/11/2011
SDG		DE283	DE256	DE283	DE256	DE256	DE256	DE253	DE273	DE273	DE253	DE253	DE285
Start Depth		2	0	4	0	0	0	0	4	9	0	0	1.9
End Depth		3	0.5	5	0.5	0.5	0.5	0.5	5	10	0.5	0.5	2.9
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Nitrobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Hexachlorobutadiene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Nitrophenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Chloroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Phenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	18 J Z	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	18 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	12 J Z	23	27 J S	6.6 J Z	--	21	9.0 J Z	9.1 J Z	11 J Z	33 J Z	18 U	10 J Z
Di-N-Octyl Phthalate	ug/kg	9.5 J Z	18 U	18 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Hexachlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Anthracene	ug/kg	0.43 J Z	1.7 U	11 J S	1.7 U	1.7 U	1.7 U	25	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
2,4-Dichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	1300 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	3.2	12 J S	2.9	1.5 J Z	2.7	--	1.8 U	1.8 U	7.4 J Z	0.82 J Z	2.1
Dimethylphthalate	ug/kg	19 U	18 U	6.3 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Dibenzofuran	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	1100 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.1 J Z	10 J S	1.7 U	1.0 J Z	1.4 J Z	--	1.8 U	1.8 U	8.4 U	1.7 U	1.8
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	0.89 J Z	11 J S	1.7 U	0.70 J Z	1.1 J Z	78	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	1400 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	7.3	13 J S	2.8	2.9	4.5	--	1.8 U	1.8 U	34	1.8	3.2
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	1100 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	3.8	15 J S	1.9	1.7	3.1	--	1.8 U	1.8 U	8.4 U	0.86 J Z	2.6
Benzo(k)fluoranthene	ug/kg	1.8 U	1.7 U	13 J S	0.90 J Z	1.7 U	1.7 U	150	1.8 U	1.8 U	8.4 U	0.72 J Z	2.8
Acenaphthylene	ug/kg	1.8 U	1.7 U	0.90 J S, Z	1.7 U	1.7 U	1.7 U	0.48 J Z	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	1500 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.53 J Z	2.5	14 J S	1.6 J Z	1.4 J Z	2.2	--	1.8 U	1.8 U	20	1.1 J Z	3.4
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	1400 J Z	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	2	12 J S	1.7	0.79 J Z	1.5 J Z	--	1.8 U	1.8 U	8.4 U	1.1 J Z	2.3
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1000 U	1000 U	1000 U	1000 U	50000 U	1100 U	1100 U	5000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 UJ L	540 U	550 U	2500 UJ L	500 UJ L	530 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.7 U	11 J S	1.7 U	1.7 U	1.7 U	27	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
Benzo(a)anthracene	ug/kg	1.8 U	1.1 J Z	15 J S	1.5 J Z	1.7 U	1.1 J Z	180	1.8 U	1.8 U	3.9 J Z	0.80 J Z	2.6
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Aniline	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Benzoic Acid	ug/kg	540 U	510 U	200 J Z	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Hexachloroethane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Isophorone	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Acenaphthene	ug/kg	1.8 U	1.7 U	1.0 J S, Z	1.7 U	1.7 U	1.7 U	11	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Diethylphthalate	ug/kg	19 U	18 U	10 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Di-n-Butylphthalate	ug/kg	19 U	18 U	19 J S	18 U	18 U	18 U	18 U	8.2 J Z	8.0 J Z	90 U	18 U	19 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	1.8 U	2.2	10 J S	1.7 U	1.3 J Z	1.5 J Z	99	1.8 U	1.8 U	4.5 J Z	1.7 U	1.8
Butylbenzylphthalate	ug/kg	19 U	10 J Z	17 J S, Z	18 U	18 U	6.6 J Z	18 U	19 U	19 U	90 U	18 U	12 J Z
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Fluorene	ug/kg	1.8 U	1.7 U	4.1 J S	1.7 U	1.7 U	1.7 U	6.7	1.8 U	1.8 U	8.4 U	1.7 U	0.71 J Z
Carbazole	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Pentachlorophenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Nitrophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Naphthalene	ug/kg	1.8 U	0.87 J Z	1.7 U	1.7 U	1.6 J Z	0.74 J Z	0.99 J Z	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	0.71 J Z	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	180 UJ C	170 U	170 UJ C	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	340 U	350 U	340 U	340 U	330 U	17000 U	360 U	360 U	1700 U	330 U	350 U
Benzidine	ug/kg	3600 U	3400 U	3500 U	3400 U	3400 U	3300 U	170000 U	3600 U	3600 U	17000 U	3300 U	3500 U
2-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Chlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzyl Alcohol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0	SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0
Sample Date		09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011	09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011
SDG		DE253	DE285	DE253	DE253	DE286	DE286	DE253	DE257	DE270	DE257	DE270	DE270
Start Depth		0	3.5	0	0	4	9	0	0	2	0	4	9
End Depth		0.5	4.5	0.5	0.5	5	10	0.5	0.5	3	0.5	5	10
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Phenol	ug/kg	18 J Z	180 U	170 U	20 J Z	180 U	180 U	18 J Z	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	18 J Z	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	10 J Z	7.5 J Z	13 J Z	--	20 U	13 J Z	66	8.4 J Z	20 U	18 U	20 U	20 U
Di-N-Octyl Phthalate	ug/kg	7.5 J Z	19 U	25	19 U	20 U	20 U	9.6 J Z	19 U	20 U	18 U	20 U	20 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Anthracene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	0.43 J Z	0.57 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.6	1.8 U	2.3	1.7 U	1.8 U	0.74 J Z	12	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.3 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	0.76 J Z	1.8 U	0.94 J Z	1.7 U	1.8 U	1.8 U	1.4 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.1	1.8 U	19	1.7 U	1.8 U	1.8 U	20	0.96 J Z	1.9 U	1.0 J FD, Z	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.9	1.8 U	2.6	1.7 U	1.8 U	0.91 J Z	12	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	1.7 U	1.8 U	2.9	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.2	1.8 U	4.4	1.7 U	1.8 U	0.80 J Z	8.5	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9	1.8 U	3.5	1.7 U	1.8 U	1.8 U	6.8	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U	1100 U	1000 U	1100 UJ Q	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 UJ L	540 U	510 UJ L	520 UJ L	550 U	550 U	510 UJ L	520 U	570 U	520 U	570 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(a)anthracene	ug/kg	1.3 J Z	1.8 U	10	1.7 U	1.8 U	1.8 U	6.7	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Aniline	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Benzoic Acid	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Isophorone	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Acenaphthene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	2.3	1.8 U	1.4 J Z	1.7 U	1.8 U	0.85 J Z	2.8	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Butylbenzylphthalate	ug/kg	19 U	12 J Z	200	19 U	20 U	8.5 J Z	18	19 U	20 U	18 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Fluorene	ug/kg	1.7 U	1.8 U	3.5	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Carbazole	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	0.84 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Naphthalene	ug/kg	1.7 U	1.8 U	0.99 J Z	1.7 U	1.8 U	0.83 J Z	1.5 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	0.81 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	340 U	360 U	340 U	340 U	370 U	370 U	340 U	350 U	380 U	340 U	380 U	370 U
Benzidine	ug/kg	3400 U	3600 U	3400 U	3400 U	3700 U	3700 U	3400 U	3500 U	3800 U	3400 R Q	3800 U	3700 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA5DS-SB-4.0-5.0	SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0	SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011	09/28/2011	10/20/2011	10/20/2011
SDG		DE269	DE269	DE269	DE269	DE256	DE269	DE269	DE270	DE257	DE273	DE273
Start Depth		4	9	4	9	0	4	9	3	0	4	9
End Depth		5	10	5	10	0.5	5	10	4	0.5	5	10
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Nitrophenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	27 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	9.3 J Z	21 U	21 U	--	11 J Z	7.1 J Z	9.0 J Z	19 U	13 J Z	8.3 J Z	8.4 J Z
Di-N-Octyl Phthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.89 J Z	1.8 U	1.8 U	1.8 U	2.2	1.8 U	1.8 U
Dimethylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2	1.8 U	1.8 U	1.8 U	6.7	1.8 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.92 J Z	1.8 U	1.8 U	1.8 U	2.3	1.8 U	1.8 U
Benzo(k)fluoranthene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.78 J Z	1.8 U	1.8 U	1.8 U	1.9	1.8 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.2 J Z	1.8 U	1.8 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1200 U	1000 U	1100 U	1100 U	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Dibenzo(a,h)anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Benzo(a)anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	0.77 J Z	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Aniline	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Benzoic Acid	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Acenaphthene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Diethylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Di-n-Butylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	7.7 J Z	7.7 J Z
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.5 J Z	1.8 U	1.8 U
Butylbenzylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	8.8 J Z	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Fluorene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Pentachlorophenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Naphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.4 J Z	1.8 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	380 U	390 U	340 U	360 U	360 U	360 U	340 U	360 U	360 U
Benzidine	ug/kg	3800 U	3800 U	3800 U	3900 U	3400 U	3600 U	3600 U	3600 U	3400 U	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzyl Alcohol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA5DS-SB-1.0-2.0	SL-010-SA5DS-SB-2.0-3.0	SL-019-SA5DS-SB-2.0-3.0
Sample Date		11/09/2011	11/08/2011	11/08/2011
SDG		DE283	DE282	DE282
Start Depth		1	2	2
End Depth		2	3	3
Chemical Name	Unit			
GRO (C5-C12)	mg/kg	1.2 U	2.2 U	1.2 U
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	1.3 U
EFH (C21-C30)	mg/kg	3.3	1.3 U	1.2 J Z
EFH (C30-C40)	mg/kg	8.5	1.6	5
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.3 U

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DE253	DE253	DE286	DE256	DE256	DE283	DE283
Start Depth		0	0	1.8	0	0	1	0
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	3	--
Fluoride	mg/kg	4.6 J Q	1.4 J Q	1.2 J Q	2.0 J Q	1.3 J Q	1.2 J Q	1.1 UJ Q
Cyanide	mg/kg	--	--	--	--	--	0.52 U	--
Aluminum	mg/kg	12200	17600	18000	14300	14500	14800	17000
Iron	mg/kg	22900	25100	24900 J Q	26100	21800	26600	23300
Lead	mg/kg	40.1 J A	24.2 J A	6.38 J Q, A	15	11.9	7.68 J Q, E	14.8 J Q, E
Lithium	mg/kg	16.2	20	23.3	20.1	19.4	18.8	19.5
Magnesium	mg/kg	5630	5310	5800	5060	5140	6400	5010
Manganese	mg/kg	305	385	331	289	268	191	278
Mercury	mg/kg	0.0133 J Z	0.0222 J Z	0.106 U	0.0103 J Z	0.0074 J Z	0.0994 U	0.0144 J Z
Molybdenum	mg/kg	0.757 J Q	0.747 J Q	0.493	0.414	0.366	0.333 J Q, E	0.484 J Q, E
Nickel	mg/kg	14.0 J Q, A	15.8 J Q, A	12.2 J Q, A	9.66	10.2	12.9 J Q, E	12.5 J Q, E
Potassium	mg/kg	1760	4290	2830 J Q	2490	2260	1300	3110
Silver	mg/kg	0.0372 J Q, Z	0.0472 J Q, Z	0.0381 J Z	0.0252 J Z	0.0236 J Z	0.0159 J Q, E, Z	0.0259 J Q, E, Z
Sodium	mg/kg	124	101	85.6 J Z	93.6 J Z	91.1 J Z	113	98.3 J Z
Strontium	mg/kg	22	29.6	23.9	20.1 J E	20.9 J E	19.6	26.5
Thallium	mg/kg	0.172 J Q	0.219 J Q	0.206	0.157	0.15	0.134 J Q, E	0.238 J Q, E
Tin	mg/kg	10.1 U B	10.0 U B	10.6 U B	10.1 U B	10.1 U B	10.3 U B	10.6 U B
Titanium	mg/kg	1240	1230	997	1110	999	827	924
Antimony	mg/kg	0.436 J Q	0.309 J Q	0.180 J Q, Z	0.105 J Q, Z	0.112 J Q, Z	0.114 J Q, E, Z	0.203 J FD, Q, E, Z
Arsenic	mg/kg	7.36 J Q	6.53 J Q	4.92 J Q	5.22	4.67	6.45 J Q, E	5.80 J Q, E
Beryllium	mg/kg	0.401	0.482	0.529	0.416	0.424	0.596 J E, Q	0.698 J E, Q
Barium	mg/kg	69.4 J A	105 J A	87.8 J E, A	54.3	51.4	49.8 J E	81.2 J E
Boron	mg/kg	7.49	10.9	11	10.5	9.43	6.19	7.62
Cadmium	mg/kg	0.294 J Q	0.345 J Q	0.214	0.16	0.161	0.128 J Q, E	0.233 J Q, E
Chromium	mg/kg	54.1 J A	48.8 J A	34.5 J Q, A	34.4	32.9	51.3 J Q, E	42.0 J Q, E
Cobalt	mg/kg	7.42	7.83	8.13 J A	5.83	6.46	5.13 J E	6.69 J E
Copper	mg/kg	7.37 J Q	11.0 J Q	7.03	5.54	5.55	5.67 J Q, E	7.68 J Q, E
Vanadium	mg/kg	98.1 J A	84.4 J A	58.3 J A	58.4	56.9	84.3 J Q, E	69.8 J Q, E
Zinc	mg/kg	72.7 J A	75.9 J A	47.3	53.9	50.5	61.9 J Q, E	60.5 J Q, E
Zirconium	mg/kg	12.5	6.76	8.84	5.39	3.56 J Z	9.61	8.03
Calcium	mg/kg	5160	5460	4180	3540 J E	3540 J E	3960	3670
Phosphorus	mg/kg	878	825	615	715	808	868	731
Selenium	mg/kg	0.257 J Q, Z	0.294 J Q, Z	0.143 J Z	0.350 J Z	0.244 J Z	0.299 J E, Z	0.290 J E, Z
Chromium VI	mg/kg	1.0 U	1.0 U	1.1	0.97 J Z	0.92 J Z	0.60 J Z	1.1 UJ FD
Perchlorate (314.0)	ug/kg	30.2 U	30.6 U	32.1 U	30.5 U	30.5 U	31.7 U	33.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	0.67	2.1	6.6	1.7	1.5	5.3	10.3
pH	pH unit	6.04	7.04	7.27	5.96	6.03	6.09	6.27

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0	SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011	09/28/2011	10/18/2011
SDG		DE257	DE257	DE257	DE257	DE282	DE257	DE271
Start Depth		0	0	0	0	2	0	4
End Depth		0.5	0.5	0.5	0.5	3	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	3.6	--	--
Fluoride	mg/kg	1.0 UJ Q	1.1 J Q	1.0 UJ Q	1.0 UJ Q	1.6 J Q	0.93 J Q, Z	2.2 J E, Q
Cyanide	mg/kg	--	--	--	--	0.54 U	--	--
Aluminum	mg/kg	17200	11700	17500	16800	16100	17600	23300
Iron	mg/kg	22700	17900	21900	22100	24400	21300	25000
Lead	mg/kg	14.2 J Q	5.33 J Q	14.8 J Q	18.9 J Q	5.17 J E	14.2 J Q	7.64 J Q, E
Lithium	mg/kg	16.3	25.1	15.6	16.7	17.8	17.2	23.2
Magnesium	mg/kg	4860	4490	4660	4590	5660	4330	5430
Manganese	mg/kg	257	258	282	298	164	294	281
Mercury	mg/kg	0.0981 U F	0.0979 U	0.0983 U F	0.0947 U F	0.0091 J Z	0.0997 U F	0.111 U
Molybdenum	mg/kg	0.705 J Q	0.439 J Q	0.696 J Q	0.792 J Q	0.196 J Q, E	0.839 J Q	0.585 J Q, E
Nickel	mg/kg	12.7 J Q	12.0 J Q	13.4 J Q	15.9 J Q	10.4 J Q, E	14.0 J Q	16.7 J E, Q
Potassium	mg/kg	2500	2850	2680	2660	1210	3170	1790
Silver	mg/kg	0.0242 J Q, Z	0.0787 J Q, Z	0.0309 J Q, Z	0.0320 J Q, Z	0.0165 J Q, E, Z	0.0405 J Q, Z	0.0267 J Q, Z
Sodium	mg/kg	87.7 J Z	69.5 J Z	88.4 J Z	91.2 J Z	123	85.1 J Z	102 J Z
Strontium	mg/kg	24.5	10.8	26.8	24.9	19.8	25.1	25.4
Thallium	mg/kg	0.184 J Q	0.284 J Q	0.216 J Q	0.248 J Q	0.101 J Q, E, Z	0.210 J Q	0.272 J Q
Tin	mg/kg	10.1 U B	9.99 U B	10.2 U B	10.0 U B	10.9 U B	10.1 U B	10.8 U B
Titanium	mg/kg	1180	1110	1160	1200	1050	1200	1090
Antimony	mg/kg	0.271 J Q	0.105 J Q, Z	0.294 J Q	0.307 J Q	0.160 J Q, E, Z	0.229 J Q	0.128 J Q, Z
Arsenic	mg/kg	6.01 J Q	4.51 J Q	6.31 J Q	7.13 J Q	6.23 J Q, E	5.71 J Q	6.34 J Q, E
Beryllium	mg/kg	0.643	0.523	0.694	0.766	0.469 J E, Q	0.739	0.896 J Q, E
Barium	mg/kg	79.1	97.4	90.8	101	38.2 J E	93.1	92.1 J E
Boron	mg/kg	8.27	4.38 J Z	7.25	7.3	5.84	7.27	5.39 U
Cadmium	mg/kg	0.203 J Q	0.125 J Q	0.221 J Q	0.297 J Q	0.0665 J Q, E, Z	0.240 J Q	0.143 J Q
Chromium	mg/kg	37.6 J Q	16.6 J Q	38.3 J Q	46.2 J Q	36.8 J Q, E	37.9 J Q	45.8 J Q, E
Cobalt	mg/kg	6.77 J Q	6.13 J Q	7.48 J Q	9.03 J Q	3.85 J E	7.23 J Q	9.22 J Q
Copper	mg/kg	7.44 J Q	7.88 J Q	8.34 J Q	9.76 J Q	3.98 J Q, E	8.80 J Q	8.96 J Q, E
Vanadium	mg/kg	64.8	34.9	65.4	77	66.2 J E	63.5	78.1 J Q, E
Zinc	mg/kg	57.8	72.7	61.2	73.5	42.9 J E	61.9	60
Zirconium	mg/kg	6.09	0.970 J Z	5.85	6.14	15	3.72 J Z	7.64
Calcium	mg/kg	3100	2820	3230	3450	3440	3010	3120
Phosphorus	mg/kg	594	340	586	660	661	585	491
Selenium	mg/kg	0.204 J Z	0.0809 J Z	0.222 J Z	0.252 J Z	0.203 J E, Z	0.217 J Z	0.304 J Q, Z
Chromium VI	mg/kg	1.1	0.48 J Z	0.68 J Z	0.21 J Z	0.47 J Z	0.97 U	0.52 J Z
Perchlorate (314.0)	ug/kg	30.5 U	30.6 U	30.5 U	30.4 U	33.4 U	30.7 U	34.0 U
Perchlorate (6850)	ug/kg	--	5.1 U	--	--	--	--	--
Percent Moisture	%	1.5	1.9	1.5	1.4	10.3	2.2	11.7
pH	pH unit	6.2	6.33	5.96	6.05	7.06	5.85	7.67

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011
SDG		DE257	DE257	DE271	DE257	DE272	DE257	DE256
Start Depth		0	0	3.5	0	4	0	0
End Depth		0.5	0.5	4.5	0.5	5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 U	1.0 U	1.5 J E, Q	1.0 U	2.5	1.3	1.3 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	18200	17700	18800	17600	21500	16600	16100
Iron	mg/kg	22400	22500	23800	22400	27000	22300	21900
Lead	mg/kg	11.9 J Q	11.6 J Q	7.22 J Q, E	13.3 J Q	5.59 J E, Q, A	30.0 J Q	10.5
Lithium	mg/kg	18.3	17.6	20.4	17	19.9	17.2	17.8
Magnesium	mg/kg	4840	4560	5530	4630	5280	4760	5120
Manganese	mg/kg	306	273	239	309	303	273	252
Mercury	mg/kg	0.101 U F	0.0472 J Z	0.107 U	0.102 U	0.104 U	0.0978 U F	0.0135 J Z
Molybdenum	mg/kg	0.685 J Q	0.779 J Q	0.498 J Q, E	0.726 J Q	0.538	0.808 J Q	0.351
Nickel	mg/kg	11.6 J Q	15.5 J Q	14.6 J E, Q	15.7 J Q	12.6 J Q, A	17.8 J Q	10.4
Potassium	mg/kg	2730	3100	2080	3510	1690	2390	2830
Silver	mg/kg	0.0258 J Q, Z	0.0297 J Q, Z	0.0200 J Q, Z	0.0328 J Q, Z	0.0268 J Z	0.0461 J Q, Z	0.0210 J Z
Sodium	mg/kg	93.6 J Z	84.7 J Z	109	80.5 J Z	110	97.7 J Z	86.7 J Z
Strontium	mg/kg	26.7	25.2	25.6	27.1	27.5	30.7	20.2 J E
Thallium	mg/kg	0.186 J Q	0.233 J Q	0.226 J Q	0.245 J Q	0.222	0.245 J Q	0.173
Tin	mg/kg	9.95 U B	9.87 U B	10.5 U B	10.3 U B	10.8 U B	9.97 U B	9.97 U B
Titanium	mg/kg	1210	1220	1040	1220	1480	1140	1120
Antimony	mg/kg	0.242 J Q	0.305 J Q	0.150 J Q, Z	0.287 J Q	0.215 UJ B, Q	0.328 J Q	0.0922 J Q, Z
Arsenic	mg/kg	4.58 J Q	6.25 J Q	5.91 J Q, E	5.99 J Q	5.58 J E, Q	6.84 J Q	4.73
Beryllium	mg/kg	0.584	0.732	0.774 J Q, E	0.768	0.712	0.812	0.464
Barium	mg/kg	76.9	101	90.8 J E	104	65.0 J A	104	64.8
Boron	mg/kg	7.05	7.07	5.27 U	7.67	2.00 J Z	8.34	9.42
Cadmium	mg/kg	0.210 J Q	0.279 J Q	0.151 J Q	0.286 J Q	0.119	0.338 J Q	0.191
Chromium	mg/kg	31.3 J Q	39.8 J Q	41.8 J Q, E	38.1 J Q	36.8 J Q, A	43.4 J Q	34.8
Cobalt	mg/kg	5.97 J Q	8.50 J Q	9.72 J Q	8.95 J Q	6.94 J A	10.6 J Q	6.28
Copper	mg/kg	7.35 J Q	9.03 J Q	8.23 J Q, E	9.83 J Q	6.80 J Q	10.5 J Q	5.38
Vanadium	mg/kg	53.2	71.2	72.2 J Q, E	66.9	66.2 J A	78.8	58.8
Zinc	mg/kg	51.4	65.7	60.2	65.4	50.7	80	48.4
Zirconium	mg/kg	2.65 J Z	5.38	6.73	4.97 J Z	13	6.1	7.94
Calcium	mg/kg	3290	3290	3190	3460	3090	4170	3250 J E
Phosphorus	mg/kg	717	643	550	642	432 J Q, E	706	668
Selenium	mg/kg	0.216 J Z	0.241 J Z	0.303 J Q, Z	0.220 J Z	0.154 J Z	0.253 J Z	0.190 J Z
Chromium VI	mg/kg	0.53 J Z	1	2.1	0.73 J Z	0.56 J Z	1.4	1.0 U
Perchlorate (314.0)	ug/kg	30.5 U	30.8 U	33.2 U	683	32.6 U	30.5 U	30.5 U
Perchlorate (6850)	ug/kg	--	5.1 U	--	--	--	--	--
Percent Moisture	%	1.5	2.6	9.6	4.9	8.1	1.7	1.7
pH	pH unit	5.66	6.1	6.76	5.87	7	6.27	5.9

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5
Sample Date		11/08/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DE282	DE256	DE256	DE283	DE256	DE283	DE256
Start Depth		2	0	0	2	0	4	0
End Depth		3	0.5	0.5	3	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	3.2	--	--	--	--	--	--
Fluoride	mg/kg	2.1 J Q	1.8 J Q	1.5 J Q	1.2 J Q	1.0 UJ Q	1.6 J Q	1.7 J Q
Cyanide	mg/kg	0.54 U	--	--	--	--	--	--
Aluminum	mg/kg	17700	15300	15600	15100	16100	18900	15000
Iron	mg/kg	26200	21400	21000	27800	22800	26600	22000
Lead	mg/kg	4.57 J E	12.4	8.71	4.61 J Q, E	9.99	5.91 J Q, E	12.3
Lithium	mg/kg	17.8	18.3	17.7	13	20.2	24	20.5
Magnesium	mg/kg	5850	4930	5000	3710	5050	5850	5540
Manganese	mg/kg	238	281	399	3560	306	289	267
Mercury	mg/kg	0.106 U	0.0088 J Z	0.0115 J Z	0.0157 J Z	0.0193 J Z	0.104 U	0.0118 J Z
Molybdenum	mg/kg	0.218 J Q, E	0.438	0.365	0.647 J Q, E	0.457	0.438 J Q, E	0.38
Nickel	mg/kg	9.74 J Q, E	10.1	10.4	14.0 J Q, E	10.8	13.9 J Q, E	10.2
Potassium	mg/kg	1160	2670	2370	1290	3490	1680	1770
Silver	mg/kg	0.104 UJ E	0.0708 J Z	0.0207 J Z	0.0161 J Q, E, Z	0.0204 J Z	0.0210 J Q, E, Z	0.0152 J Z
Sodium	mg/kg	117	88.1 J Z	91.3 J Z	95.0 J Z	83.9 J Z	115	98.7 J Z
Strontium	mg/kg	20.7	21.4 J E	23.6 J E	22.3	23.1 J E	23.9	21.9 J E
Thallium	mg/kg	0.124 J Q, E	0.149	0.167	0.150 J Q, E	0.146	0.211 J Q, E	0.129
Tin	mg/kg	10.7 U B	9.94 U B	9.87 U B	10.5 U B	10.1 U B	10.3 U B	10.1 U B
Titanium	mg/kg	1030	1100	1030	880	812	985	750
Antimony	mg/kg	0.0982 J Q, E, Z	0.107 J Q, Z	0.100 J Q, Z	0.127 J Q, E, Z	0.108 J Q, Z	0.116 J Q, E, Z	0.111 J Q, Z
Arsenic	mg/kg	5.83 J Q, E	4.58	4.61	8.02 J Q, E	4.4	5.75 J Q, E	4.68
Beryllium	mg/kg	0.534 J E, Q	0.441	0.452	0.846 J E, Q	0.43	0.649 J E, Q	0.426
Barium	mg/kg	47.4 J E	65	79.4	104 J E	64.3	67.3 J E	55.1
Boron	mg/kg	6.03	9.48	9.65	7.74	10.3	6.35	10.1
Cadmium	mg/kg	0.0667 J Q, E, Z	0.166	0.163	0.182 J Q, E	0.195	0.135 J Q, E	0.148
Chromium	mg/kg	36.3 J Q, E	31.2	33.3	32.7 J Q, E	31.7	40.8 J Q, E	32.8
Cobalt	mg/kg	4.49 J E	6.28	5.61	4.92 J E	6.79	6.57 J E	6.25
Copper	mg/kg	3.83 J Q, E	6.2	5.4	3.89 J Q, E	6.34	6.95 J Q, E	5.31
Vanadium	mg/kg	64.3 J E	54.8	55.2	68.1 J Q, E	55.3	71.1 J Q, E	57.6
Zinc	mg/kg	44.0 J E	50	46.9	37.3 J Q, E	50.3	52.4 J Q, E	48.4
Zirconium	mg/kg	13.5	6.66	4.06 J Z	11.8	5.84	9.73	5.94
Calcium	mg/kg	3250	3440 J E	3510 J E	2690	3560 J E	3360	3610 J E
Phosphorus	mg/kg	536	715	740	553	715	478	582
Selenium	mg/kg	0.124 J E, Z	0.190 J Z	0.170 J Z	0.103 J E, Z	0.217 J Z	0.209 J E, Z	0.259 J Z
Chromium VI	mg/kg	0.64 J Z	1.7	0.65 J Z	0.62 J Z	0.56 J Z	0.55 J Z	1.0 U
Perchlorate (314.0)	ug/kg	32.5 U	30.4 U	30.5 U	32.7 U	30.5 U	31.8 U	30.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	7.6	1.4	1.6	8.3	1.8	5.7	1.9
pH	pH unit	6.12	5.99	6.14	6.45	6.05	6.5	6.09

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011
SDG		DE256	DE256	DE253	DE273	DE273	DE253	DE253
Start Depth		0	0	0	4	9	0	0
End Depth		0.5	0.5	0.5	5	10	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 UJ Q	1.4 J Q	1.0 UJ Q	6.7 J Q	9.1 J Q	2.5 J Q	0.99 UJ Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	11800	13500	9970	20700 J E	30100 J E	15800	12000
Iron	mg/kg	19200	21500	18300	28500	37300	27200	25400
Lead	mg/kg	8.9	9.22	12.1 J A	6.65 J Q, A	9.82 J Q, A	10.1 J A	28.1 J A
Lithium	mg/kg	19.1	18.8	13.8	40	52.9	30.5	21.4
Magnesium	mg/kg	5160	5700	4310	8240	10500	7140	6320
Manganese	mg/kg	281	329	227	323	250	317	293
Mercury	mg/kg	0.0098 J Z	0.0098 J Z	0.0973 U	0.108 U	0.109 U B	0.0988 U	0.0095 J Z
Molybdenum	mg/kg	0.313	0.341	0.404 J Q	0.303	0.165	0.413 J Q	0.384 J Q
Nickel	mg/kg	9.27	9.08	20.0 J Q, A	14.4 J A	22.5 J A	20.6 J Q, A	17.3 J Q, A
Potassium	mg/kg	2320	1470	2570	4200 J Q	6250 J Q	3940	4800
Silver	mg/kg	0.0169 J Z	0.0162 J Z	0.0205 J Q, Z	0.109 U	0.0195 J Z	0.161 J Q	0.351 J Q
Sodium	mg/kg	111	98.2 J Z	199	164	209	146	195
Strontium	mg/kg	20.5 J E	21.3 J E	30.7	23.1	31.9	21.6	21.1
Thallium	mg/kg	0.112	0.102	0.186 J Q	0.269	0.395	0.367 J Q	0.244 J Q
Tin	mg/kg	10.1 U B	10.1 U B	9.85 U B	10.8 U B	11.0 U B	9.83 U B	9.76 U B
Titanium	mg/kg	1090	1210	1100	1380	1590	1260	1480
Antimony	mg/kg	0.119 J Q, Z	0.133 J Q, Z	0.102 J Q, Z	0.217 UJ Q	0.0880 J Q, Z	0.194 J Q, Z	0.145 J Q, Z
Arsenic	mg/kg	4.53	5.88	3.27 J Q	4.73 J Q	6.86 J Q	5.79 J Q	2.80 J Q
Beryllium	mg/kg	0.389	0.418	0.275	0.578 J Q	0.762 J Q	0.44	0.243
Barium	mg/kg	42.5	61.2	101 J A	70.5	103	128 J A	140 J A
Boron	mg/kg	8.87	9.52	5.5	13.4	17.5	9.43	7
Cadmium	mg/kg	0.156	0.134	0.152 J Q	0.0890 J Z	0.108 J Z	0.354 J Q	0.362 J Q
Chromium	mg/kg	31.2	32.7	24.8 J A	27.9 J Q, A	35.9 J Q, A	44.5 J A	22.5 J A
Cobalt	mg/kg	5.49	6.29	6.3	8.63 J A	8.11 J A	10.7	7.43
Copper	mg/kg	4.43	3.69	11.9 J Q	10.8 J A	20.6 J A	14.1 J Q	16.5 J Q
Vanadium	mg/kg	56.4	61.6	63.9 J A	56.7 J A	67.2 J A	95.0 J A	62.6 J A
Zinc	mg/kg	43.2	45.9	58.8 J A	67.9	98.9	104 J A	109 J A
Zirconium	mg/kg	9.18	11	4.92 U B	7.39	7.92	7.02	2.42 J Z
Calcium	mg/kg	4600 J E	4700 J E	3460	5730	6120	8000	4810
Phosphorus	mg/kg	838	721	472	588	613	655	739
Selenium	mg/kg	0.170 J Z	0.188 J Z	0.154 J Q, Z	0.206 J Z	0.344 J Z	0.282 J Q, Z	0.144 J Q, Z
Chromium VI	mg/kg	0.67 J Z	0.86 J Z	0.34 J Z	1.1 U	1.1 U	1.0 U	0.38 J Z
Perchlorate (314.0)	ug/kg	30.5 U	30.6 U	30.4 U	32.6 U	32.9 U	30.4 U	30.2 U
Perchlorate (6850)	ug/kg	--	--	--	5.4 U	--	--	--
Percent Moisture	%	1.6	2	1.4	8	8.9	1.2	0.56
pH	pH unit	6.65	6.48	6.84	8.2	7.13	7.41	7.1

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-028-SA5DS-SB-1.9-2.9	SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0
Sample Date		11/11/2011	09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011
SDG		DE285	DE253	DE285	DE253	DE253	DE286	DE286
Start Depth		1.9	0	3.5	0	0	4	9
End Depth		2.9	0.5	4.5	0.5	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	6.5	2.6 J Q	3.3	1.2 J Q	1.6 J Q	6.2 J Q	3.6 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	18600	29200	26800	26100	29200	31100	28900
Iron	mg/kg	28500	36900	36000	34100	39000	38200 J Q	44600 J Q
Lead	mg/kg	8.11	15.7 J A	9.21	17.8 J A	32.3 J A	8.91 J Q, A	8.86 J Q, A
Lithium	mg/kg	33.6	55.1	47.1	47.1	45.2	39.9	44.7
Magnesium	mg/kg	7990	10200	10400	9090	9660	9430	10700
Manganese	mg/kg	313 J E	345	293 J E	377	361	364	285
Mercury	mg/kg	0.107 U	0.0076 J Z	0.105 U	0.0145 J Z	0.0130 J Z	0.108 U	0.106 U
Molybdenum	mg/kg	0.105 U B	0.514 J Q	0.108 U B	0.651 J Q	0.664 J Q	0.371	0.108 U B
Nickel	mg/kg	15	29.2 J Q, A	21.4	34.2 J Q, A	28.6 J Q, A	21.9 J Q, A	21.4 J Q, A
Potassium	mg/kg	2910 J Q	5730	5010 J Q	7340	6660	4740 J Q	5150 J Q
Silver	mg/kg	0.105 U	0.0472 J Q, Z	0.0265 J Z	0.0488 J Q, Z	0.0554 J Q, Z	0.0233 J Z	0.0466 J Z
Sodium	mg/kg	163 J E	161	150 J E	146	135	194	198
Strontium	mg/kg	17.7	28.8	28.9	35.9	34.5	36	36.7
Thallium	mg/kg	0.276	0.539 J Q	0.381	0.616 J Q	0.526 J Q	0.41	0.407
Tin	mg/kg	22	10.2 U B	10.5 U B	10.1 U B	10.4 U B	10.9 U B	10.7 U B
Titanium	mg/kg	1040	1700	1340	1670	1710	1540	1410
Antimony	mg/kg	0.210 U	0.343 J Q	0.0902 J Z	0.182 J Q, Z	0.341 J Q	0.104 J Q, Z	0.217 UJ Q
Arsenic	mg/kg	4.26	8.36 J Q	4.67	9.83 J Q	8.83 J Q	5.80 J Q	5.35 J Q
Beryllium	mg/kg	0.539	0.635	0.719	0.576	0.693	0.815	0.762
Barium	mg/kg	57.5	143 J A	98.2	180 J A	151 J A	124 J E, A	114 J E, A
Boron	mg/kg	4.58 J Z	13.5	6.61	17.3	14	17.5	20
Cadmium	mg/kg	0.0832 J Z	0.252 J Q	0.143	0.283 J Q	0.268 J Q	0.159	0.174
Chromium	mg/kg	32.4	58.8 J A	31.3	68.5 J A	55.5 J A	33.0 J Q, A	31.3 J Q, A
Cobalt	mg/kg	11.2	14	8.82	16.8	14	11.2 J A	11.4 J A
Copper	mg/kg	10.4	22.4 J Q	16.3	25.6 J Q	24.8 J Q	16.7	19
Vanadium	mg/kg	57.5	118 J A	59.8	136 J A	111 J A	65.5 J A	59.4 J A
Zinc	mg/kg	62	116 J A	80.5	138 J A	138 J A	75.7	82.6
Zirconium	mg/kg	7.45	4.39 J Z	8.4	3.54 J Z	5.13 J Z	9.12	7.69
Calcium	mg/kg	4660	6510	6840	8470	6570	5480	6370
Phosphorus	mg/kg	555	503	552	677	528	310	503
Selenium	mg/kg	0.202 J Z	0.412 J Q	0.215 J Z	0.483 J Q	0.510 J Q	0.294 J Z	0.269 J Z
Chromium VI	mg/kg	1.1 U	1.4	0.28 J Z	1.0 U	0.38 J Z	0.49 J Z	0.36 J Z
Perchlorate (314.0)	ug/kg	32.4 U	31.1 U	32.7 U	30.7 U	31.1 U	33.4 U	33.5 U
Perchlorate (6850)	ug/kg	4.1 J L, Z	--	--	--	--	--	--
Percent Moisture	%	7.4	3.4	8.3	2.2	3.4	10.3	10.4
pH	pH unit	5.9	6.9	6.84	7.08	6.96	7.29	7.32

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0	SL-036-SA5DS-SB-4.0-5.0
Sample Date		09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011	10/14/2011
SDG		DE253	DE257	DE270	DE257	DE270	DE270	DE269
Start Depth		0	0	2	0	4	9	4
End Depth		0.5	0.5	3	0.5	5	10	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.2 J Q	3.1	4.5 J Q	1.4	4.9 J Q	2.9 J Q	2.3
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	26500	30500	34000	31900	34200	28300	27200
Iron	mg/kg	33500	34900	33600	37400	36000	37800	33700 J E
Lead	mg/kg	15.3 J A	12.4 J Q	8.15 J Q	12.4 J Q	11.0 J Q	12.6 J Q	17.3 J Q, A
Lithium	mg/kg	40.6	31.2	35	31.6	31.2	40.4	32.7
Magnesium	mg/kg	8580	8030	8290	8840	8730	9470	8690
Manganese	mg/kg	371	344	306	370	367	304	352
Mercury	mg/kg	0.101 U	0.100 U	0.111 U	0.103 U	0.110 U	0.109 U	0.112 U B
Molybdenum	mg/kg	0.794 J Q	0.646 J Q	0.357	0.548 J Q	0.326	0.239 J Z	0.376
Nickel	mg/kg	26.2 J Q, A	28.7 J Q	19.3 J E, Q	27.8 J Q	26.2 J E, Q	25.5 J E, Q	20.8 J A
Potassium	mg/kg	6450	4150	3630	4980	4010	4670	3350 J Q
Silver	mg/kg	0.0435 J Q, Z	0.0371 J Q, Z	0.0183 J Z	0.0485 J Q, Z	0.0230 J FD, Z	0.275 U	0.112 U
Sodium	mg/kg	136	109	159	100 J Z	132	238	166
Strontium	mg/kg	51.6	65.3	58.5	40.3	47.1	42	59.3
Thallium	mg/kg	0.474 J Q	0.448 J Q	0.302	0.432 J Q	0.441	0.391	0.451
Tin	mg/kg	10.2 U B	10.4 U B	11.2 U B	10.3 U B	11.4 U B	11.0 U B	11.1 U B
Titanium	mg/kg	1520	1380	1740	1540	1820	1870	1650
Antimony	mg/kg	0.317 J Q	0.340 J Q	0.224 UJ B, Q	0.392 J Q	0.223 UJ FD, B, Q	0.550 UJ Q	0.276 J Q
Arsenic	mg/kg	8.40 J Q	8.25 J Q	5.25 J E, Q	7.40 J Q	6.85 J E, Q	7.79 J E, Q	10.4
Beryllium	mg/kg	0.621	1.13	0.808	1.16	0.879	0.87	1.04
Barium	mg/kg	146 J A	130	124	182	162	104	112 J A
Boron	mg/kg	15.9	13	3.70 J Z	15.5	4.91 J Z	3.84 J Z	5.56 U
Cadmium	mg/kg	0.282 J Q	0.304 J Q	0.137	0.304 J Q	0.162	0.136 J Z	0.0551 J Z
Chromium	mg/kg	47.7 J A	42.4 J Q	36.7	40.0 J Q	48.2	43.2	28.3 J A
Cobalt	mg/kg	12.6	15.0 J Q	15.7	13.9 J Q	15.5	25.6	13.0 J A
Copper	mg/kg	20.1 J Q	20.5 J Q	17.2	21.6 J Q	21.3	22.9	32.6 J A
Vanadium	mg/kg	97.5 J A	84.7	68.4 J E	79	99.3 J E	87.2 J E	74.7 J Q, A
Zinc	mg/kg	101 J A	97.6	70.6	102	91.9	91.1	101
Zirconium	mg/kg	2.88 J Z	3.67 J Z	5.18 J Z	4.78 J Z	5.12 J Z	4.89 J Z	8.51
Calcium	mg/kg	15900	29800	19600 J E	9210	9770 J E	8610 J E	7650
Phosphorus	mg/kg	571	437	347 J Q	511	258 J Q	646 J Q	635
Selenium	mg/kg	0.515 J Q	0.194 J Z	0.257 J Z	0.272 J Z	0.220 J FD, Z	0.165 J Z	0.110 J Z
Chromium VI	mg/kg	0.37 J Z	1.1 U	1.1 U	1.0 UJ FD	1.2 U	0.25 J Z	1.2 U
Perchlorate (314.0)	ug/kg	30.7 U	31.4 U	34.2 U	31.3 U	34.2 U	34.0 U	34.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	2.2	4.5	12.4	4	12.2	11.8	12.7
pH	pH unit	7.3	7.59	8.31	7.61	8.26	8.57	8.39

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011
SDG		DE269	DE269	DE269	DE256	DE269	DE269	DE270
Start Depth		9	4	9	0	4	9	3
End Depth		10	5	10	0.5	5	10	4
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	3.9	4.7	11.8	2.1 J Q	3.6	2.9	1.5 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	31400	36300	40000	21900	23200	23500	28100
Iron	mg/kg	32600 J E	35200 J E	40800 J E	25900	27200 J E	27100 J E	30900
Lead	mg/kg	10.6 J Q, A	11.3 J Q, A	13.9 J Q, A	8.57	8.01 J Q, A	8.06 J Q, A	10.1 J Q
Lithium	mg/kg	30.9	31.4	37.5	24.3	28.9	23.3	38.6
Magnesium	mg/kg	6960	8110	10200	6260	6980	5830	8820
Manganese	mg/kg	366	468	277	337	328	363	227
Mercury	mg/kg	0.109 U	0.112 U	0.112 U	0.0877 J Z	0.105 U	0.104 U	0.104 U
Molybdenum	mg/kg	0.517	0.524	0.872	0.41	0.443	0.53	0.235
Nickel	mg/kg	20.5 J A	23.4 J A	30.5 J A	14.6	17.9 J A	18.8 J A	24.3 J E, Q
Potassium	mg/kg	3050 J Q	3700 J Q	4230 J Q	5520	3760 J Q	2800 J Q	4320
Silver	mg/kg	0.0257 J Z	0.0479 J Z	0.0232 J Z	0.0234 J Z	0.0220 J Z	0.0413 J Z	0.0229 J Z
Sodium	mg/kg	130	166	240	85.8 J Z	135	120	145
Strontium	mg/kg	51.6	66.2	65.8	41.1 J E	60.3	38	91
Thallium	mg/kg	0.398	0.482	0.594	0.269	0.305	0.303	0.391
Tin	mg/kg	11.1 U B	11.4 U B	11.5 U B	9.88 U B	10.7 U B	10.7 U B	10.5 U B
Titanium	mg/kg	1650	1620	1570	1200	1300	1340	1480
Antimony	mg/kg	0.201 J Q, Z	0.308 J Q	0.378 J Q	0.122 J Q, Z	0.188 J Q, Z	0.221 J Q	0.208 UJ B, Q
Arsenic	mg/kg	7.22	6.69	8.96	4.65	5.74	6.82	4.97 J E, Q
Beryllium	mg/kg	0.929	1.01	1.27	0.58	0.688	0.794	0.769
Barium	mg/kg	150 J A	179 J A	199 J A	92	116 J A	117 J A	143
Boron	mg/kg	5.53 U	5.93	7.06	13.6	5.35 U	5.34 U	4.03 J Z
Cadmium	mg/kg	0.172	0.155	0.0708 J Z	0.237	0.194	0.146	0.131
Chromium	mg/kg	36.9 J A	38.9 J A	47.6 J A	29.8	33.6 J A	40.4 J A	44.7
Cobalt	mg/kg	13.4 J A	12.8 J A	17.6 J A	8.3	10.6 J A	10.0 J A	15
Copper	mg/kg	16.7 J A	17.2 J A	25.8 J A	11.6	13.1 J A	10.6 J A	19.2
Vanadium	mg/kg	77.1 J Q, A	77.7 J Q, A	96.5 J Q, A	53.6	65.0 J Q, A	72.6 J Q, A	78.6 J E
Zinc	mg/kg	77.1	84.3	109	61.1	68.8	64.9	90
Zirconium	mg/kg	5.63	4.87 J Z	4.87 J Z	4.84 J Z	4.26 J Z	6.16	4.05 J Z
Calcium	mg/kg	18600	14200	8540	14300 J E	34600	7550	25000 J E
Phosphorus	mg/kg	192	152	240	586	573	440	469 J Q
Selenium	mg/kg	0.175 J Z	0.142 J Z	0.172 J Z	0.292 J Z	0.199 J Z	0.122 J Z	0.294 J Z
Chromium VI	mg/kg	1.1 U	0.31 J Z	1.2 U	1.0 U	0.24 J Z	0.23 J Z	1.1 U
Perchlorate (314.0)	ug/kg	34.5 U	34.5 U	35.5 U	30.8 U	32.8 U	32.4 U	32.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.5 U
Percent Moisture	%	13.1	13.1	15.4	2.7	8.4	7.3	8.6
pH	pH unit	8.39	8.29	8.3	7.55	8.42	8.41	8.59

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

	Sample Name	SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
	Sample Date	09/28/2011	10/20/2011	10/20/2011
	SDG	DE257	DE273	DE273
	Start Depth	0	4	9
	End Depth	0.5	5	10
Chemical Name	Unit			
Nitrate	mg/kg	--	--	--
Fluoride	mg/kg	2.5	25.0 J Q	17.1 J Q
Cyanide	mg/kg	--	--	--
Aluminum	mg/kg	18000	31000 J E	23800 J E
Iron	mg/kg	22500	33900	31200
Lead	mg/kg	14.1 J Q	8.46 J Q, A	7.86 J Q, A
Lithium	mg/kg	17.7	31.3	30.1
Magnesium	mg/kg	4710	7700	7470
Manganese	mg/kg	369	295	339
Mercury	mg/kg	0.100 U	0.108 U	0.106 U B
Molybdenum	mg/kg	0.762 J Q	0.606	0.471
Nickel	mg/kg	17.7 J Q	19.5 J A	19.3 J A
Potassium	mg/kg	4120	3930 J Q	2760 J Q
Silver	mg/kg	0.0289 J Q, Z	0.0407 J Z	0.0203 J Z
Sodium	mg/kg	83.6 J Z	903	848
Strontium	mg/kg	25.8	34.3	28.2
Thallium	mg/kg	0.273 J Q	0.353	0.28
Tin	mg/kg	10.0 U B	10.8 U B	10.5 U B
Titanium	mg/kg	1270	1330	1240
Antimony	mg/kg	0.258 J Q	0.0827 J Q, Z	0.215 UJ Q
Arsenic	mg/kg	5.98 J Q	6.45 J Q	6.47 J Q
Beryllium	mg/kg	0.757	0.852 J Q	0.729 J Q
Barium	mg/kg	117	107	90.8
Boron	mg/kg	8.35	12.2	9.92
Cadmium	mg/kg	0.217 J Q	0.0595 J Z	0.108 U
Chromium	mg/kg	33.2 J Q	36.9 J Q, A	39.9 J Q, A
Cobalt	mg/kg	9.83 J Q	10.5 J A	10.7 J A
Copper	mg/kg	10.9 J Q	12.8 J A	10.4 J A
Vanadium	mg/kg	62.3	70.5 J A	67.5 J A
Zinc	mg/kg	61.2	69.5	62.7
Zirconium	mg/kg	3.49 J Z	8.67	8.22
Calcium	mg/kg	3090	3610	3970
Phosphorus	mg/kg	360	372	467
Selenium	mg/kg	0.188 J Z	0.112 J Z	0.164 J Z
Chromium VI	mg/kg	0.99 U	3.2	1.1 U
Perchlorate (314.0)	ug/kg	30.4 U	32.7 U	32.3 U
Perchlorate (6850)	ug/kg	2.3 J Z	--	--
Percent Moisture	%	1.3	8.3	7
pH	pH unit	6.27	8.05	7.35

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J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA5DS-SB-1.0-2.0	SL-010-SA5DS-SB-2.0-3.0	SL-019-SA5DS-SB-2.0-3.0
Sample Date		11/09/2011	11/08/2011	11/08/2011
SDG		DE283	DE282	DE282
Start Depth		1	2	2
End Depth		2	3	3
Chemical Name	Unit			
Ethanol	ug/kg	530 U	560 U	540 U
Methanol	ug/kg	530 U	560 U	540 U
2-Propanol	ug/kg	530 U	560 U	540 U
Ethylene Glycol	mg/kg	11 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	11 U
Propylene glycol	mg/kg	11 U	11 U	11 U
o-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
m-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
p-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
Formaldehyde	ug/kg	1600 U	1700 U	1600 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	120 U
RDX	ug/kg	130 U	130 U	120 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
HMX	ug/kg	320 U	330 U	310 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
Tetryl	ug/kg	130 U	130 U	120 U
Nitroglycerin	ug/kg	2500 U	2700 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	250 U	270 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	250 U	270 U	250 U
PETN	ug/kg	2500 U	2700 U	2500 U
2-Nitrotoluene	ug/kg	130 U	130 U	120 U
3-Nitrotoluene	ug/kg	130 U	130 U	120 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	120 U
4-Nitrotoluene	ug/kg	130 U	130 U	120 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	120 U
Nitrobenzene	ug/kg	130 U	130 U	120 U
m-Dinitrobenzene	ug/kg	130 U	130 U	120 U

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R - Result is rejected

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DX142	DX142	DX155	DX143	DX143	DX154	DX154
Start Depth		0	0	1.8	0	0	1	0
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.987 U	0.0574 J Z	0.0477 J Z	0.148 J Z	0.115 J Z	0.0258 J Z	0.0534 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.789 J Z	0.655 J Z	0.410 J Z	0.802 J Z	0.957 J Z	0.424 J Z	1.32 J Z
OCDD	ng/kg	135 J FD	54.8	4.74 J Z	69.4	41.3	6.06 J Z	38.5
1,2,3,4,6,7,8-HpCDD	ng/kg	13.6	6.48	5.21 U B	7.3	4.04 J Z	5.26 U B	4.09 J Z
OCDF	ng/kg	5.49 J Z	2.64 J Z	10.4 U B	3.08 J Z	1.59 J Z	10.5 U B	1.87 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.286 J Z	0.154 J Z	5.21 U B	0.224 J Z	0.193 J Z	5.26 U B	5.52 U B
1,2,3,7,8-PeCDD	ng/kg	0.246 J Z	0.152 J Z	0.0570 J Z	0.412 J Z	0.369 J Z	5.26 U B	0.185 J Z
2,3,7,8-TCDF	ng/kg	0.510 J Z	0.642 J Z	0.0565 J Z	0.339 J Z	0.133 J Z	0.0475 J Z	0.124 J FD, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.221 J Z	4.93 U B	5.21 U B	4.86 U B	4.97 U B	5.26 U B	5.52 U B
2,3,4,7,8-PeCDF	ng/kg	1.31 J Z	1.09 J Z	5.21 U B	0.944 J Z	0.691 J Z	5.26 U B	5.52 UJ B, FD
1,2,3,7,8-PeCDF	ng/kg	1.23 J FD, Z	0.473 J Z	5.21 U B	0.371 J Z	0.429 J Z	5.26 U B	0.293 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.419 J Z	0.224 J Z	5.21 U B	0.350 J Z	0.277 J Z	5.26 U B	0.215 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.734 J Z	0.529 J Z	0.204 J Z	0.749 J Z	0.747 J Z	0.257 J Z	0.903 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.314 J Z	0.401 J Z	5.21 U B	0.373 J Z	4.97 U B	5.26 U B	5.52 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	2.62 J Z	1.39 J Z	5.21 U B	1.37 J Z	0.908 J Z	5.26 U B	0.950 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.260 J FD, Z	0.480 J Z	5.21 U	0.345 J Z	0.312 J Z	5.26 U B	0.353 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.120 J Z	0.459 J Z	0.354 J Z	0.259 J Z	0.298 J Z	5.26 U B	0.501 J Z
Aroclor 1260	ug/kg	7.7	5.6	1.8 U	0.67 J Z	1.7 U	1.8 U	1.9 UJ FD
Aroclor 1254	ug/kg	8	4.3	1.5 J S, Z	0.51 J Z	1.7 U	1.8 U	1.8 J FD, Z, *#
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	2.4 J FD, Z	3.3 J Z	3.5 UJ E	1.2 J Z	3.4 U	3.5 U	1.7 J Z, C
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.3 U	3.4 U	3.5 UJ E	3.4 U	3.4 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.3 U	3.4 U	3.5 UJ E	3.4 U	3.4 U	3.5 U	3.7 U

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Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0	SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011	09/28/2011	10/18/2011
SDG		DX144	DX144	DX144	DX144	DX154	DX144	DX149
Start Depth		0	0	0	0	2	0	4
End Depth		0.5	0.5	0.5	0.5	3	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.993 U	0.0433 J Z	1.01 U	0.0545 J Z	0.0274 J Z	1.00 U	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	1.23 J Z	0.509 J Z	0.746 J Z	1.32 J Z	0.237 J Z	0.822 J Z	5.48 U B
OCDD	ng/kg	44.9	38.8	45.4	52.9	1.92 J Z	19.6	11.0 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	3.83 J Z	3.58 J Z	4.23 J Z	4.60 J Z	5.54 U B	1.78 J Z	5.48 U B
OCDF	ng/kg	2.20 J Z	1.53 J Z	2.43 J Z	1.93 J Z	11.1 U B	0.890 J Z	11.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	4.97 U	0.102 J Z	0.0814 J Z	0.102 J Z	0.0300 J Z	0.0821 J Z	5.48 U B
1,2,3,7,8-PeCDD	ng/kg	0.136 J Z	0.0916 J Z	0.142 J Z	0.186 J Z	5.54 U	0.195 J Z	5.48 U B
2,3,7,8-TCDF	ng/kg	0.121 J Z	0.137 J Z	0.196 J Z	0.226 J Z	1.11 U	0.0930 J Z	0.0307 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	4.97 U B	4.90 U B	5.05 U B	5.02 U B	5.54 U B	5.02 U B	5.48 U B
2,3,4,7,8-PeCDF	ng/kg	0.291 J Z	4.90 U B	5.05 U	5.02 U B	5.54 U B	0.290 J Z	5.48 U B
1,2,3,7,8-PeCDF	ng/kg	4.97 U B	0.130 J Z	0.183 J Z	0.333 J Z	0.0832 J Z	0.306 J Z	5.48 U B
1,2,3,6,7,8-HxCDF	ng/kg	4.97 U B	4.90 U B	5.05 U B	5.02 U B	5.54 U B	5.02 U B	5.48 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.934 J Z	0.416 J Z	0.571 J Z	0.994 J Z	0.184 J Z	0.632 J Z	0.0758 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.180 J Z	0.194 J Z	0.202 J Z	0.215 J Z	5.54 U B	0.0908 J Z	5.48 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.809 J Z	0.676 J Z	0.958 J Z	0.834 J Z	5.54 U B	5.02 U B	5.48 U B
1,2,3,4,7,8-HxCDF	ng/kg	4.97 U B	0.221 J Z	5.05 U B	0.323 J Z	5.54 U B	5.02 U B	5.48 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.671 J Z	0.228 J Z	0.483 J Z	0.825 J Z	0.222 J Z	0.316 J Z	5.48 U B
Aroclor 1260	ug/kg	1.5 J Z	1.7 U	1.8 J S	1.2 J Z	1.9 U	1.7 U	1.9 U
Aroclor 1254	ug/kg	1.2 J Z	1.6 J Z	2.0 J S	2	1.9 U	1.2 J S, Z	1.9 U
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5460	ug/kg	3.3	3.1 J Z	3.5 J S	3.1 J Z	3.7 U	1.9 J S, Z	3.7 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5442	ug/kg	3.3 U	3.3 U	3.4 U	3.3 U	3.7 U	3.4 U	3.7 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5432	ug/kg	3.3 U	3.3 U	3.4 U	3.3 U	3.7 U	3.4 U	3.7 U

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Sample Name		SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011
SDG		DX144	DX144	DX149	DX144	DX150	DX144	DX143
Start Depth		0	0	3.5	0	4	0	0
End Depth		0.5	0.5	4.5	0.5	5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.967 U	1.01 U	0.0480 J Z	1.03 U	1.08 U	0.0586 J Z	1.00 U
1,2,3,7,8,9-HxCDD	ng/kg	0.984 J Z	0.834 J Z	0.264 J Z	0.787 J Z	5.42 U B	1.06 J Z	0.929 J Z
OCDD	ng/kg	146	34.3	2.44 J Z	40.7	10.8 U B	71.4	34.3
1,2,3,4,6,7,8-HpCDD	ng/kg	6.74	2.73 J Z	5.44 U B	3.72 J Z	5.42 U B	7.14	3.67 J Z
OCDF	ng/kg	2.71 J Z	1.16 J Z	10.9 U B	1.78 J Z	10.8 U B	2.56 J Z	1.48 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0886 J Z	0.127 J Z	5.44 U B	0.0651 J Z	5.42 U B	0.136 J Z	0.0878 J Z
1,2,3,7,8-PeCDD	ng/kg	0.234 J Z	0.170 J Z	5.44 U B	0.159 J Z	5.42 U B	0.208 J Z	0.115 J Z
2,3,7,8-TCDF	ng/kg	0.162 J Z	0.0574 J Z	0.0938 J Z	0.132 J Z	0.0249 J Z	0.589 J Z	0.176 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	4.83 U B	5.03 U	5.44 U B	5.17 U B	5.42 U	5.06 U B	5.02 U B
2,3,4,7,8-PeCDF	ng/kg	0.431 J Z	5.03 U B	5.44 U B	5.17 U B	5.42 U B	1.11 J Z	5.02 U B
1,2,3,7,8-PeCDF	ng/kg	0.294 J Z	0.188 J Z	0.193 J Z	0.165 J Z	5.42 U B	0.295 J Z	0.231 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.215 J Z	5.03 U B	0.117 J Z	5.17 U B	5.42 U B	0.278 J Z	0.142 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.994 J Z	0.514 J Z	0.199 J Z	0.584 J Z	5.42 U B	1.02 J Z	0.633 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.205 J Z	0.126 J Z	5.44 U B	0.148 J Z	5.42 U B	0.341 J Z	5.02 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.14 J Z	5.03 U B	5.44 U B	0.771 J Z	5.42 U B	1.42 J Z	0.730 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.283 J Z	5.03 U	5.44 U B	0.258 J Z	0.0316 J Z	0.464 J Z	0.364 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.507 J Z	0.521 J Z	5.44 U B	0.565 J Z	5.42 U B	0.500 J Z	0.504 J Z
Aroclor 1260	ug/kg	0.92 J Z	1.7 U	1.9 U	2.2 J S	1.8 U	9.3 J S	0.52 J Z
Aroclor 1254	ug/kg	0.92 J Z	3.5 J S	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	2.4 J Z	1.5 J S, Z	3.6 U	2.9 J S, Z	3.6 U	5.9 J S	3.3 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.3 U	3.4 U	3.6 U	3.5 U	3.6 U	3.4 U	3.3 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.3 U	3.4 U	3.6 U	3.5 U	3.6 U	3.4 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5
Sample Date		11/08/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DX154	DX143	DX143	DX154	DX143	DX154	DX143
Start Depth		2	0	0	2	0	4	0
End Depth		3	0.5	0.5	3	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	1.00 U	0.0407 J Z	1.05 U	0.997 U	1.04 U	0.994 U
1,2,3,7,8,9-HxCDD	ng/kg	0.0841 J Z	0.958 J Z	0.785 J Z	0.144 J Z	0.947 J Z	0.154 J Z	0.524 J Z
OCDD	ng/kg	10.8 U B	72.6	26.2	2.31 J Z	83	10.4 U B	35.2
1,2,3,4,6,7,8-HpCDD	ng/kg	5.38 U B	5.45	2.37 J Z	5.24 U B	5.45	5.21 U B	3.76 J Z
OCDF	ng/kg	10.8 U B	2.43 J Z	1.11 J Z	10.5 U B	2.47 J Z	10.4 U B	1.73 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0219 J Z	0.0998 J Z	0.0334 J Z	5.24 U	0.126 J Z	5.21 U B	0.100 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0273 J Z	0.144 J Z	0.113 J Z	5.24 U	0.134 J Z	5.21 U B	0.130 J Z
2,3,7,8-TCDF	ng/kg	1.08 U B	0.218 J Z	0.143 J Z	1.05 U	0.247 J Z	0.0278 J Z	0.193 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	0.189 J Z	5.21 U B	4.97 U B
2,3,4,7,8-PeCDF	ng/kg	5.38 U B	5.02 U B	0.260 J Z	5.24 U B	4.99 U B	5.21 U B	0.228 J Z
1,2,3,7,8-PeCDF	ng/kg	5.38 U B	0.187 J Z	0.148 J Z	5.24 U B	0.169 J Z	5.21 U B	0.248 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.38 U B	0.212 J Z	4.93 U B	5.24 U B	0.208 J Z	5.21 U B	0.167 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.38 U B	0.777 J Z	0.622 J Z	5.24 U B	0.721 J Z	0.122 J Z	0.462 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	4.99 U B	5.21 U B	4.97 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.38 U B	1.14 J Z	4.93 U B	5.24 U B	1.30 J Z	5.21 U B	0.770 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	0.323 J Z	5.21 U B	0.255 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.38 U B	0.330 J Z	0.400 J Z	5.24 U B	0.413 J Z	5.21 U B	0.295 J Z
Aroclor 1260	ug/kg	1.8 U	0.87 J Z	0.71 J Z	1.9 U	0.97 J S, Z	1.8 U	0.75 J S, Z
Aroclor 1254	ug/kg	1.8 U	1.2 J Z	0.89 J Z	1.9 U	1.2 J S, Z	1.8 U	0.64 J S, Z
Aroclor 1268	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.6 U	2.0 J Z	1.6 J Z	3.6 U	2.0 J S, Z	3.5 U	1.6 J S, Z
Aroclor 1232	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.6 U	3.3 U	3.3 U	3.6 U	3.4 U	3.5 U	3.4 U
Aroclor 1248	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.6 U	3.3 U	3.3 U	3.6 U	3.4 U	3.5 U	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011
SDG		DX143	DX143	DX142	DX150	DX150	DX142	DX142
Start Depth		0	0	0	4	9	0	0
End Depth		0.5	0.5	0.5	5	10	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.01 U	0.0797 J Z	9.85 U	1.05 U	0.0537 J Z	0.973 U	0.971 U
1,2,3,7,8,9-HxCDD	ng/kg	0.347 J Z	0.355 J Z	49.2 U	5.27 U B	5.40 U B	0.249 J Z	0.320 J Z
OCDD	ng/kg	39	35.4	49.6 J Z	3.60 J Z	10.8 U B	55	57.5
1,2,3,4,6,7,8-HpCDD	ng/kg	3.77 J Z	3.66 J Z	6.83 J Z	5.27 U B	5.40 U B	9.15	7.1
OCDF	ng/kg	2.18 J Z	1.39 J Z	8.98 J Z	10.5 U B	10.8 U B	2.01 J Z	3.00 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.134 J Z	0.142 J Z	49.2 U	5.27 U B	5.40 U	4.87 U	0.301 J Z
1,2,3,7,8-PeCDD	ng/kg	0.169 J Z	0.227 J Z	49.2 U	5.27 U	5.40 U B	4.87 U	0.188 J Z
2,3,7,8-TCDF	ng/kg	0.223 J Z	0.458 J Z	1.10 J Z	0.0251 J Z	0.0563 J Z	0.108 J Z	0.788 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.04 U B	4.92 U B	4.10 J Z	5.27 U B	5.40 U B	0.597 J Z	0.156 J Z
2,3,4,7,8-PeCDF	ng/kg	0.338 J Z	0.773 J Z	9.93 J Z	5.27 U B	5.40 U	0.427 J Z	0.855 J Z
1,2,3,7,8-PeCDF	ng/kg	0.227 J Z	0.329 J Z	3.87 J Z	5.27 U B	5.40 U B	0.190 J Z	0.179 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.123 J Z	0.234 J Z	3.91 J Z	5.27 U B	5.40 U B	4.87 U	0.461 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.313 J Z	0.359 J Z	0.485 J Z	5.27 U B	5.40 U B	0.356 J Z	0.451 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.04 U B	4.92 U B	4.40 J Z	5.27 U B	5.40 U B	0.372 J Z	0.470 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	0.824 J Z	0.771 J Z	5.02 J Z	5.27 U B	5.40 U B	0.893 J Z	1.78 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.04 U B	0.589 J Z	11.3 J Z	0.0647 J Z	0.0689 J Z	0.256 J Z	0.594 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.04 U B	0.219 J Z	3.86 J Z	5.27 U B	5.40 U B	0.272 J Z	0.109 J Z
Aroclor 1260	ug/kg	1.7 U	3.3	170 U	1.8 U	1.9 U	1.7 U	0.98 J Z
Aroclor 1254	ug/kg	0.89 J Z	5	1500	0.65 J L, Z	1.8 J L, Z	1.7 U	1.9
Aroclor 1268	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	1.3 J Z	1.3 J Z	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.3 U	3.3 U	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.3 U	3.3 U	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-028-SA5DS-SB-1.9-2.9	SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0
Sample Date		11/11/2011	09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011
SDG		DX155	DX142	DX155	DX142	DX142	DX155	DX155
Start Depth		1.9	0	3.5	0	0	4	9
End Depth		2.9	0.5	4.5	0.5	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	0.998 U	1.09 U	1.01 U	0.0792 J Z	1.07 U	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	0.138 J Z	4.99 U B	5.44 U B	5.05 U B	0.479 J Z	0.174 J Z	5.57 U B
OCDD	ng/kg	5.55 J Z	12.7	10.9 U B	28.5	77.9	2.31 J Z	2.45 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.40 U B	1.51 J Z	5.44 U B	3.49 J Z	8.56	5.36 U B	5.57 U B
OCDF	ng/kg	10.8 U B	1.09 J Z	10.9 U B	1.79 J Z	3.07 J Z	10.7 U B	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.40 U B	0.0913 J Z	5.44 U B	0.0932 J Z	0.173 J Z	5.36 U	5.57 U B
1,2,3,7,8-PeCDD	ng/kg	0.176 J Z	4.99 U	5.44 U	0.0762 J Z	0.183 J Z	0.101 J Z	5.57 U
2,3,7,8-TCDF	ng/kg	0.242 J Z	0.166 J Z	1.09 U	1.01 U B	0.674 J Z	1.07 U	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.40 U B	4.99 U	5.44 U B	5.05 U B	0.145 J Z	5.36 U B	5.57 U B
2,3,4,7,8-PeCDF	ng/kg	5.40 U B	0.655 J Z	5.44 U B	5.05 U	5.18 U B	5.36 U B	5.57 U B
1,2,3,7,8-PeCDF	ng/kg	0.262 J Z	0.629 J Z	5.44 U B	5.05 U B	0.294 J Z	5.36 U B	5.57 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.40 U B	0.336 J Z	5.44 U B	0.111 J Z	0.170 J Z	5.36 U B	5.57 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.40 U B	4.99 U B	5.44 U B	5.05 U B	0.504 J Z	0.250 J Z	5.57 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.40 U B	0.202 J Z	5.44 U B	5.05 U B	0.176 J Z	5.36 U B	5.57 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.40 U B	0.542 J Z	5.44 U B	0.797 J Z	1.42 J Z	5.36 U B	5.57 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.145 J Z	0.605 J Z	5.44 U B	0.112 J Z	0.162 J Z	5.36 U B	5.57 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.40 U B	0.122 J Z	5.44 U B	0.0578 J Z	5.18 U	5.36 U B	5.57 U B
Aroclor 1260	ug/kg	0.95 J Z	5	1.8 U	1.3 J Z	1.8 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	4.9	15	9.8 J S	2.3	2.4	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0	SL-036-SA5DS-SB-4.0-5.0
Sample Date		09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011	10/14/2011
SDG		DX143	DX144	DX151	DX146	DX151	DX151	DX149
Start Depth		0	0	2	0	4	9	4
End Depth		0.5	0.5	3	0.5	5	10	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.02 U	1.01 U	1.14 U	1.03 U	1.10 UJ FD	1.11 U	0.0632 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.09 U B	0.127 J Z	5.70 U B	0.133 J Z	5.49 UJ B, FD	5.55 U B	5.73 U B
OCDD	ng/kg	26.9	2.21 J Z	11.4 U B	9.33 J Q, Z	11.0 U B	11.1 U B	11.5 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	2.95 J Z	0.444 J Z	5.70 U B	5.13 U B	5.49 U B	5.55 U B	5.73 U B
OCDF	ng/kg	1.27 J Z	10.1 U B	11.4 U B	0.613 J Z	11.0 U B	11.1 U B	11.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0950 J Z	0.0425 J Z	0.0241 J Z	5.13 UJ FD	5.49 UJ FD	5.55 U	5.73 U B
1,2,3,7,8-PeCDD	ng/kg	0.0740 J Z	0.0490 J Z	0.0393 J Z	5.13 UJ FD	5.49 UJ FD	0.0265 J Z	0.391 J Z
2,3,7,8-TCDF	ng/kg	0.197 J Z	1.01 U	1.14 U	1.03 UJ FD	1.10 U	1.11 U	0.0811 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ FD	5.55 U B	5.73 U B
2,3,4,7,8-PeCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 U B	5.49 UJ B, FD	5.55 U B	0.357 J Z
1,2,3,7,8-PeCDF	ng/kg	0.325 J Z	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	0.479 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	0.281 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.09 U B	5.04 U B	0.0230 J Z	0.0828 J Z	0.0442 J FD, Z	0.0328 J Z	0.197 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.09 U B	0.0401 J Z	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	5.73 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 U B	5.55 U B	5.73 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.326 J Z	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	5.73 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.09 U B	0.112 J Z	5.70 U B	5.13 UJ B, FD	5.49 U B	5.55 U B	5.73 U B
Aroclor 1260	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	7.9	2.6 J S	1.9 U	1.8 UJ FD	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U
Aroclor 1232	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011
SDG		DX149	DX149	DX149	DX143	DX149	DX149	DX151
Start Depth		9	4	9	0	4	9	3
End Depth		10	5	10	0.5	5	10	4
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U	0.114 J Z	1.17 U	0.0367 J Z	1.08 U	1.04 U	1.08 U
1,2,3,7,8,9-HxCDD	ng/kg	0.690 J Z	0.488 J Z	5.83 U B	0.633 J Z	5.38 U B	5.22 U B	5.42 U B
OCDD	ng/kg	11.3 U B	11.5 U B	11.7 U B	23.9	10.8 U B	10.4 U B	10.8 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.64 U B	5.75 U B	5.83 U B	2.06 J Z	5.38 U B	5.22 U B	5.42 U B
OCDF	ng/kg	11.3 U B	11.5 U B	11.7 U B	1.98 J Z	10.8 U B	10.4 U B	10.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.0632 J Z	5.38 U B	5.22 U	0.0298 J Z
1,2,3,7,8-PeCDD	ng/kg	5.64 U B	5.75 U B	5.83 U	0.161 J Z	5.38 U	5.22 U B	0.0475 J Z
2,3,7,8-TCDF	ng/kg	0.0589 J Z	0.0416 J Z	1.17 U	0.0661 J Z	1.08 U	1.04 U	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	5.09 U B	5.38 U B	5.22 U B	5.42 U B
2,3,4,7,8-PeCDF	ng/kg	5.64 U B	0.285 J Z	5.83 U B	0.237 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,7,8-PeCDF	ng/kg	0.267 J Z	0.301 J Z	5.83 U B	0.281 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.166 J Z	5.75 U B	5.83 U B	0.132 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.286 J Z	0.239 J Z	5.83 U	0.408 J Z	5.38 U	5.22 U	0.0385 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	5.09 U B	5.38 U	5.22 U B	5.42 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.685 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.297 J Z	5.38 U	5.22 U B	5.42 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.725 J Z	0.657 J Z	5.83 U B	0.414 J Z	5.38 U B	5.22 U B	5.42 U B
Aroclor 1260	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1254	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U
Aroclor 1232	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	2.0 UJ S	2.0 U	2.0 U	0.72 J Z	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
Sample Date		09/28/2011	10/20/2011	10/20/2011
SDG		DX146	DX150	DX150
Start Depth		0	4	9
End Depth		0.5	5	10
Chemical Name	Unit			
2,3,7,8-TCDD	ng/kg	1.01 U	1.08 U	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	0.648 J Z	5.40 U B	5.34 U B
OCDD	ng/kg	109	10.8 U B	10.7 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	10.8	5.40 U B	5.34 U B
OCDF	ng/kg	4.60 J Z	10.8 U B	10.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.341 J Z	5.40 U B	5.34 U
1,2,3,7,8-PeCDD	ng/kg	5.06 U B	5.40 U B	5.34 U B
2,3,7,8-TCDF	ng/kg	0.186 J Z	1.08 U	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.128 J Z	5.40 U B	5.34 U B
2,3,4,7,8-PeCDF	ng/kg	5.06 U B	5.40 U B	5.34 U B
1,2,3,7,8-PeCDF	ng/kg	0.201 J Z	5.40 U B	5.34 U
1,2,3,6,7,8-HxCDF	ng/kg	5.06 U B	5.40 U B	5.34 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.696 J Z	5.40 U B	5.34 U B
2,3,4,6,7,8-HxCDF	ng/kg	0.172 J Z	5.40 U B	5.34 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.38 J Z	5.40 U B	5.34 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.275 J Z	0.0409 J Z	0.0471 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.585 J Z	5.40 U B	5.34 U B
Aroclor 1260	ug/kg	1.5 J Z	1.8 U	1.8 U
Aroclor 1254	ug/kg	0.85 J Z	1.8 U	1.8 U
Aroclor 1268	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	2.9 J Z	3.6 UJ E	3.5 UJ E
Aroclor 1232	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.3 U	3.6 UJ E	3.5 UJ E
Aroclor 1248	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.3 U	3.6 UJ E	3.5 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A11
Pesticides-Validated Data
HSA-5DS

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-006-SA5DS-SS-0.0-0.5	SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	09/27/2011	09/27/2011	09/27/2011	09/28/2011	09/28/2011	09/28/2011
SDG		DE253	DE253	DE256	DE256	DE256	DE257	DE257	DE257
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 R Q	1.7 U	1.7 U	1.7 U	--	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 R Q	1.2 U	1.2 U	1.2 U	--	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 R Q	9.1 U	9.2 U	9.1 U	--	9.1 U	9.1 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R Q, L	2.4 R L	2.4 U	2.4 U	--	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 R Q	250 U	250 U	250 U	--	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.17 R Q	0.17 U	0.19	0.75	--	0.25 U	0.21 U	0.3
2,4,5-T	ug/kg	0.50 U	0.17 U	0.32 U	0.17 U	--	0.59 U	0.17 U	0.17 U
MCPA	ug/kg	250 R Q	250 U	250 U	250 U	--	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.7 U	3.7 U	--	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	2.0 R Q	1.7	6.4	3.0 U	--	2.2 U	2.4 U	1.7 U
Toxaphene	ug/kg	13 U	15	10	6.7 U	7.2 U	6.7 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.14 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 UJ FD	0.052 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.038 J Z	0.071 J Z
Endosulfan II	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
4,4'-DDT	ug/kg	1.2	2.4	0.86	0.35 U	0.63 J S	0.64 J S	0.56	0.56
Endrin Ketone	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Chlordane	ug/kg	2.0 J FD, Z	8	7.4	3.5 U	3.8 J S	1.9 J S, Z	1.9 J Z	2.0 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.040 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.48 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 R Q	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.52	2.8	0.35 U	0.35 U	1.0 J S	0.78 J S	0.53	0.31 J Z
Endrin Aldehyde	ug/kg	0.43 J Q	0.49	0.50 U	0.35 U	0.35 U	0.34 U	0.34 U	0.089 J Z
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SS-0.0-0.5	SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SS-0.0-0.5	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5	SL-020-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/27/2011	09/27/2011
SDG		DE257	DE257	DE257	DE257	DE257	DE257	DE256	DE256
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 U	1.7 U	1.0 J Z	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.1 U	9.2 U	9.4 U	9.1 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.5 U	2.5 U	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 U	250 U	250 U	260 U	260 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.19	0.27	0.29	0.17 U	0.18 U	0.17 U	0.26	0.45
2,4,5-T	ug/kg	0.32 U	0.85 U	0.29 U	0.48 U	0.18 U	0.17 U	0.17 U	0.20 U
MCPA	ug/kg	250 U	250 U	250 U	260 U	260 U	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U
2,4 DB	ug/kg	56 U	36 U	18 U	14 U	8.9 U	8.6 U	1.7 U	1.7 U
Toxaphene	ug/kg	6.7 U	6.7 U	6.7 U	6.8 U	6.9 U	18 UJ S	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.076 J Z	0.17 UJ S	0.17 U	0.17 U
Beta-BHC	ug/kg	0.078 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Delta-BHC	ug/kg	0.061 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan II	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
4,4'-DDT	ug/kg	0.63	0.35 U	0.42	0.31 J Z	0.59	2.9 J S	0.34 U	0.99
Endrin Ketone	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Chlordane	ug/kg	3.0 J Z	1.7 J Z	1.7 J Z	1.8 J Z	2.5 J Z	4.4 J S	3.4 U	2.9 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.42	0.35 U	0.35	0.24 J Z	0.41 U	2.2 J S	0.23 J Z	1
Endrin Aldehyde	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.99 J S	0.086 J Z	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.077 J Z	0.17 UJ S	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A11
Pesticides-Validated Data
HSA-5DS

Sample Name		SL-021-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SS-0.0-0.5	SL-023-SA5DS-SS-0.0-0.5	SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/27/2011	09/27/2011	09/27/2011	09/26/2011	09/26/2011	09/26/2011
SDG		DE256	DE256	DE256	DE256	DE256	DE253	DE253	DE253
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.2 U	9.2 U	9.1 U	9.2 U	9.1 U	9.1 U	9.0 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.86 J L, Z	2.4 R L	2.4 R L
MCPP	ug/kg	250 U	250 U	250 U	250 U	260 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.13 J Z	0.5	0.17 U	0.41	0.78	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.17 U	0.20 U	0.36 U	1.9	0.17 U	0.42	0.17 U	0.26
MCPA	ug/kg	250 U	250 U	250 U	250 U	260 U	250 U	250 U	120 J Z
2,4-D	ug/kg	3.7 U	4.2	3.7 U	3.7 U	3.7 U	3.6 U	3.6 U	3.6 U
2,4 DB	ug/kg	29 U	8.8	3.2 U	1.7 U	1.8 U	5.9	4.7	6.3 U
Toxaphene	ug/kg	2.6 J Z	6.7 U	6.7 UJ S	6.7 U	6.7 U	1400 U	50 U	60 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	83 U	0.84 U	0.83 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Mirex	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	2.8 U	1.8 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.079 J Z	17 U	0.84 U	0.83 U
Delta-BHC	ug/kg	0.17 U	0.046 J Z	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Endosulfan II	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	46 U	1.7 U	1.8 U
4,4'-DDT	ug/kg	0.34 U	0.77	0.38 J S	0.34 U	0.67 U	170 U	1.3 J Z	7
Endrin Ketone	ug/kg	0.34 U	0.097 J Z	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Chlordane	ug/kg	1.6 J Z	5.8	1.8 J S, Z	3.4 U	2.5 J Z	510 U	17 U	10 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Dieldrin	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	50 U	1.7 U	2.1 U
Endrin	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	59 U	1.7 U	1.7 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U	170 U	8.4 U	8.3 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
4,4'-DDE	ug/kg	0.34 U	0.68	0.25 J S, Z	0.34 U	0.35 U	270 U	1.1 J Z	1.7 U
Endrin Aldehyde	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Endosulfan I	ug/kg	0.21 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-029-SA5DS-SS-0.0-0.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	09/26/2011	09/26/2011	09/28/2011	09/28/2011	09/27/2011	09/28/2011
SDG		DE253	DE253	DE253	DE253	DE257	DE257	DE256	DE257
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.6 J Z	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.61 J Z	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.2 U	9.3 U	9.2 U	9.4 U	9.3 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R L	2.5 R L	2.5 R L	2.5 U	2.5 U	2.5 R L	2.4 U
MCPP	ug/kg	260 U	260 U	260 U	260 U	260 U	260 U	260 U	250 U
2,4,5-TP	ug/kg	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.44 J FD, Q	0.090 J Z	0.62
2,4,5-T	ug/kg	0.18 U	0.17 U	0.18 U	0.15 J Z	0.18 U	0.18 U	0.17 U	0.17 U
MCPA	ug/kg	260 U	260 U	260 U	260 U	260 U	260 U	870	250 U
2,4-D	ug/kg	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U
2,4 DB	ug/kg	1.7 J Z	1.7 U	3.2	1.7	1.8 U	3.5 U	100 U	2.6 U
Toxaphene	ug/kg	17 U	42 U	10	10 U	6.9 U	6.9 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.53 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Mirex	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.090 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ FD	0.17 U	0.081 J Z
Delta-BHC	ug/kg	0.35	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.36 U	0.4	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
4,4'-DDT	ug/kg	3.5 U	0.60 U	2.9	0.94 U	0.35 U	0.22 J FD, Z	0.35 U	0.34 U
Endrin Ketone	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Chlordane	ug/kg	3.3 J Z	3.4 J Z	6.2	2.6 J Z	3.5 U	0.90 J FD, Z	1.1 J Z	3.4 U
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.18	0.17 U	0.057 J Z	0.17 U	0.038 J FD, Z	0.17 U	0.053 J Z
Dieldrin	ug/kg	1.2 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Endrin	ug/kg	0.45 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	0.81 J Z	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.35 U	0.35 U	0.42 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
4,4'-DDE	ug/kg	2.1 U	0.86	2.2	1.2	0.35 U	0.10 J FD, Z	0.35 U	0.34 U
Endrin Aldehyde	ug/kg	0.53 U	1.5 U	0.73	0.46	0.35 U	0.35 UJ FD	0.35 U	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.089 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

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R - Result is rejected

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5	SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011
SDG		DE253	DE253	DE286	DE256	DE256	DE283	DE283	DE257	DE257	DE257	DE257	DE282
Start Depth		0	0	1.8	0	0	1	0	0	0	0	0	2
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	3
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	35.2 U	--	--	--	--	--	36.8 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Nitrobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Hexachlorobutadiene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Nitrophenol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Chloroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Phenol	ug/kg	170 UJ FD	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	19 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	13 J Q, Z	21	11 J Z	12 J Z	--	19	20 UJ FD	10 J Z	14 J Z	9.5 J Z	18 U	10 J Z
Di-N-Octyl Phthalate	ug/kg	6.9 J FD, Z	11 J Z	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Hexachlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Anthracene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Pyrene (8270C)	ug/kg	24 J Z	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	2.5	1.8 U	2.3	1.7	0.73 J Z	1.8 UJ FD	1.0 J Z	1.3 J Z	1.5 J Z	1.4 J Z	1.9 U
Dimethylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Dibenzofuran	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.2 J Z	1.8 U	1.1 J Z	1.7 U	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U	0.88 J Z	1.8 U	1.1 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.2 J FD	7.1	0.72 J Z	7.5	3.3	0.86 J Z	1.8 UJ FD	4.9	1.5 J Z	1.4 J Z	1.5 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	36 J Z	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	2.9	1.8 U	2.9	1.9	0.89 J Z	1.8 UJ FD	1.0 J Z	1.6 J Z	1.7	1.8	1.9 U
Benzo(k)fluoranthene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 UJ FD	1.7 U	3.1	2.7	3.7	1.9 U
Acenaphthylene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.49 J Z	2.6	0.70 J Z	2.1	1.4 J Z	0.67 J Z	0.41 J FD, Z	0.84 J Z	1.2 J Z	1.2 J Z	1.3 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.9	1.8 U	1.6 J Z	1.0 J Z	1.7 U	1.8 UJ FD	1.7 U	0.87 J Z	0.84 J Z	0.89 J Z	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1000 U	1000 U	1000 U	1100 U	1000 U	1000 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 UJ L	510 UJ L	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Benzo(a)anthracene	ug/kg	1.7 U	0.96 J Z	1.8 U	0.81 J Z	0.76 J Z	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Aniline	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Benzoic Acid	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Hexachloroethane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Isophorone	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Acenaphthene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Diethylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Di-n-Butylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Phenanthrene	ug/kg	35 J Z	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	--	1.9	1.8 U	2	1.1 J Z	1.7 U	1.8 UJ FD	1.7 U	0.77 J Z	1.1 J Z	0.90 J Z	1.9 U
Butylbenzylphthalate	ug/kg	18 U	7.1 J Z	19 U	18 U	18 U	11 J Z	20 U	18 U	11 J Z	18 U	18 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Fluorene	ug/kg	1.7 U	1.7	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Carbazole	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Pentachlorophenol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Nitrophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1-Methylnaphthalene	ug/kg	1.7 U	1.7 U	1.8 U	0.78 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Naphthalene	ug/kg	1.7 U	1.3 J Z	1.8 U	3.5	0.71 J Z	1.7 U	1.8 UJ FD	1.7 U	0.77 J Z	0.96 J Z	0.84 J Z	1.9 U
2-Methylnaphthalene	ug/kg	1.7 U	0.70 J Z	1.8 U	1.2 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 UJ C	180 UJ C	170 U	170 U	170 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	330 U	340 U	350 U	340 U	340 U	350 U	370 U	340 U	340 U	340 U	340 U	370 U
Benzidine	ug/kg	3300 R Q	3400 U	3500 U	3400 U	3400 U	3500 U	3700 R Q	3400 U	3400 U	3400 U	3400 U	3700 U
2-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Chlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
3-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzyl Alcohol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0	SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	10/18/2011	09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011	11/08/2011	09/27/2011	09/27/2011
SDG		DE257	DE271	DE257	DE257	DE271	DE257	DE272	DE257	DE256	DE282	DE256	DE256
Start Depth		0	4	0	0	3.5	0	4	0	0	2	0	0
End Depth		0.5	5	0.5	0.5	4.5	0.5	5	0.5	0.5	3	0.5	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	36.1 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Phenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	6.5 J Z	20 U	130	15 J Z	20 U	10 J Z	19 U	15 J Z	18 U	12 J Z	16 J Z	7.1 J Z
Di-N-Octyl Phthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Hexachlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Anthracene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.6 J Z	1.5 J Z	1.8 U	1.3 J Z	1.8 U	3.1	1.7 U	1.8 U	1.6 J Z	0.86 J Z
Dimethylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	0.68 J Z	1.7 U	1.8 U	0.71 J Z	1.7 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	0.67 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.5	1.9 U	4.7	4.2	1.8 U	5.9	1.8 U	13	1.4 J Z	1.8 U	3.8	4
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.7	1.5 J Z	1.8 U	1.4 J Z	1.8 U	3.6	1.7 U	1.8 U	1.9	0.98 J Z
Benzo(k)fluoranthene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Acenaphthylene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.81 J Z	1.9 U	1.4 J Z	1.2 J Z	1.8 U	1.2 J Z	1.8 U	3.5	0.36 J Z	1.8 U	1.7	0.93 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.74 J Z	1.9 U	1.1 J Z	0.88 J Z	1.8 U	0.85 J Z	1.8 U	2.3	1.7 U	1.8 U	1.1 J Z	1.7 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.0 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene	ug/kg	1.7 U	1.9 U	0.68 J Z	1.7 U	1.8 U	1.7 U	1.8 U	1.1 J Z	1.7 U	1.8 U	0.76 J Z	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Aniline	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Benzoic Acid	ug/kg	500 U	1200	510 U	510 U	390 J Z	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Hexachloroethane	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Isophorone	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Acenaphthene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Diethylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Di-n-Butylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	0.75 J Z	1.9 U	1.0 J Z	1.0 J Z	1.8 U	1.1 J Z	1.8 U	1.4 J Z	1.7 U	1.8 U	1.0 J Z	0.76 J Z
Butylbenzylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	48	18 U	19 U	6.6 J Z	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Fluorene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	0.81 J Z	1.8 U	1.3 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Pentachlorophenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Naphthalene	ug/kg	0.73 J Z	1.9 U	0.80 J Z	0.69 J Z	1.8 U	0.75 J Z	1.8 U	0.95 J Z	1.7 U	1.8 U	1.0 J Z	1.7 U
2-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	380 U	340 U	340 U	370 U	350 U	360 U	340 U	340 U	360 U	340 U	340 U
Benzidine	ug/kg	3400 U	3800 UJ Q	3400 U	3400 U	3700 U	3500 U	3600 R Q	3400 U	3400 U	3600 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5	SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SB-1.9-2.9
Sample Date		11/09/2011	09/27/2011	11/09/2011	09/27/2011	09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011	11/11/2011
SDG		DE283	DE256	DE283	DE256	DE256	DE256	DE253	DE273	DE273	DE253	DE253	DE285
Start Depth		2	0	4	0	0	0	0	4	9	0	0	1.9
End Depth		3	0.5	5	0.5	0.5	0.5	0.5	5	10	0.5	0.5	2.9
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Nitrobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Hexachlorobutadiene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Nitrophenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Chloroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Phenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	18 J Z	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	18 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	12 J Z	23	27 J S	6.6 J Z	--	21	9.0 J Z	9.1 J Z	11 J Z	33 J Z	18 U	10 J Z
Di-N-Octyl Phthalate	ug/kg	9.5 J Z	18 U	18 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Hexachlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Anthracene	ug/kg	0.43 J Z	1.7 U	11 J S	1.7 U	1.7 U	1.7 U	25	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
2,4-Dichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	1300 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	3.2	12 J S	2.9	1.5 J Z	2.7	--	1.8 U	1.8 U	7.4 J Z	0.82 J Z	2.1
Dimethylphthalate	ug/kg	19 U	18 U	6.3 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Dibenzofuran	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	1100 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.1 J Z	10 J S	1.7 U	1.0 J Z	1.4 J Z	--	1.8 U	1.8 U	8.4 U	1.7 U	1.8
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	0.89 J Z	11 J S	1.7 U	0.70 J Z	1.1 J Z	78	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	1400 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	7.3	13 J S	2.8	2.9	4.5	--	1.8 U	1.8 U	34	1.8	3.2
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	1100 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	3.8	15 J S	1.9	1.7	3.1	--	1.8 U	1.8 U	8.4 U	0.86 J Z	2.6
Benzo(k)fluoranthene	ug/kg	1.8 U	1.7 U	13 J S	0.90 J Z	1.7 U	1.7 U	150	1.8 U	1.8 U	8.4 U	0.72 J Z	2.8
Acenaphthylene	ug/kg	1.8 U	1.7 U	0.90 J S, Z	1.7 U	1.7 U	1.7 U	0.48 J Z	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	1500 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.53 J Z	2.5	14 J S	1.6 J Z	1.4 J Z	2.2	--	1.8 U	1.8 U	20	1.1 J Z	3.4
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	1400 J Z	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	2	12 J S	1.7	0.79 J Z	1.5 J Z	--	1.8 U	1.8 U	8.4 U	1.1 J Z	2.3
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1000 U	1000 U	1000 U	1000 U	50000 U	1100 U	1100 U	5000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 UJ L	540 U	550 U	2500 UJ L	500 UJ L	530 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.7 U	11 J S	1.7 U	1.7 U	1.7 U	27	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
Benzo(a)anthracene	ug/kg	1.8 U	1.1 J Z	15 J S	1.5 J Z	1.7 U	1.1 J Z	180	1.8 U	1.8 U	3.9 J Z	0.80 J Z	2.6
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Aniline	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Benzoic Acid	ug/kg	540 U	510 U	200 J Z	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Hexachloroethane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Isophorone	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Acenaphthene	ug/kg	1.8 U	1.7 U	1.0 J S, Z	1.7 U	1.7 U	1.7 U	11	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Diethylphthalate	ug/kg	19 U	18 U	10 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Di-n-Butylphthalate	ug/kg	19 U	18 U	19 J S	18 U	18 U	18 U	18 U	8.2 J Z	8.0 J Z	90 U	18 U	19 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	1.8 U	2.2	10 J S	1.7 U	1.3 J Z	1.5 J Z	99	1.8 U	1.8 U	4.5 J Z	1.7 U	1.8
Butylbenzylphthalate	ug/kg	19 U	10 J Z	17 J S, Z	18 U	18 U	6.6 J Z	18 U	19 U	19 U	90 U	18 U	12 J Z
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Fluorene	ug/kg	1.8 U	1.7 U	4.1 J S	1.7 U	1.7 U	1.7 U	6.7	1.8 U	1.8 U	8.4 U	1.7 U	0.71 J Z
Carbazole	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Pentachlorophenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Nitrophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Naphthalene	ug/kg	1.8 U	0.87 J Z	1.7 U	1.7 U	1.6 J Z	0.74 J Z	0.99 J Z	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	0.71 J Z	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	180 UJ C	170 U	170 UJ C	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	340 U	350 U	340 U	340 U	330 U	17000 U	360 U	360 U	1700 U	330 U	350 U
Benzidine	ug/kg	3600 U	3400 U	3500 U	3400 U	3400 U	3300 U	170000 U	3600 U	3600 U	17000 U	3300 U	3500 U
2-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Chlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzyl Alcohol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0	SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0
Sample Date		09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011	09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011
SDG		DE253	DE285	DE253	DE253	DE286	DE286	DE253	DE257	DE270	DE257	DE270	DE270
Start Depth		0	3.5	0	0	4	9	0	0	2	0	4	9
End Depth		0.5	4.5	0.5	0.5	5	10	0.5	0.5	3	0.5	5	10
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Phenol	ug/kg	18 J Z	180 U	170 U	20 J Z	180 U	180 U	18 J Z	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	18 J Z	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	10 J Z	7.5 J Z	13 J Z	--	20 U	13 J Z	66	8.4 J Z	20 U	18 U	20 U	20 U
Di-N-Octyl Phthalate	ug/kg	7.5 J Z	19 U	25	19 U	20 U	20 U	9.6 J Z	19 U	20 U	18 U	20 U	20 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Anthracene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	0.43 J Z	0.57 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.6	1.8 U	2.3	1.7 U	1.8 U	0.74 J Z	12	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.3 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	0.76 J Z	1.8 U	0.94 J Z	1.7 U	1.8 U	1.8 U	1.4 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.1	1.8 U	19	1.7 U	1.8 U	1.8 U	20	0.96 J Z	1.9 U	1.0 J FD, Z	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.9	1.8 U	2.6	1.7 U	1.8 U	0.91 J Z	12	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	1.7 U	1.8 U	2.9	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.2	1.8 U	4.4	1.7 U	1.8 U	0.80 J Z	8.5	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9	1.8 U	3.5	1.7 U	1.8 U	1.8 U	6.8	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U	1100 U	1000 U	1100 UJ Q	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 UJ L	540 U	510 UJ L	520 UJ L	550 U	550 U	510 UJ L	520 U	570 U	520 U	570 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(a)anthracene	ug/kg	1.3 J Z	1.8 U	10	1.7 U	1.8 U	1.8 U	6.7	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Aniline	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Benzoic Acid	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Isophorone	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Acenaphthene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	2.3	1.8 U	1.4 J Z	1.7 U	1.8 U	0.85 J Z	2.8	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Butylbenzylphthalate	ug/kg	19 U	12 J Z	200	19 U	20 U	8.5 J Z	18	19 U	20 U	18 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Fluorene	ug/kg	1.7 U	1.8 U	3.5	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Carbazole	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	0.84 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Naphthalene	ug/kg	1.7 U	1.8 U	0.99 J Z	1.7 U	1.8 U	0.83 J Z	1.5 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	0.81 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	340 U	360 U	340 U	340 U	370 U	370 U	340 U	350 U	380 U	340 U	380 U	370 U
Benzidine	ug/kg	3400 U	3600 U	3400 U	3400 U	3700 U	3700 U	3400 U	3500 U	3800 U	3400 R Q	3800 U	3700 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-036-SA5DS-SB-4.0-5.0	SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0	SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011	09/28/2011	10/20/2011	10/20/2011
SDG		DE269	DE269	DE269	DE269	DE256	DE269	DE269	DE270	DE257	DE273	DE273
Start Depth		4	9	4	9	0	4	9	3	0	4	9
End Depth		5	10	5	10	0.5	5	10	4	0.5	5	10
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Nitrophenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	27 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	9.3 J Z	21 U	21 U	--	11 J Z	7.1 J Z	9.0 J Z	19 U	13 J Z	8.3 J Z	8.4 J Z
Di-N-Octyl Phthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.89 J Z	1.8 U	1.8 U	1.8 U	2.2	1.8 U	1.8 U
Dimethylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2	1.8 U	1.8 U	1.8 U	6.7	1.8 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.92 J Z	1.8 U	1.8 U	1.8 U	2.3	1.8 U	1.8 U
Benzo(k)fluoranthene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.78 J Z	1.8 U	1.8 U	1.8 U	1.9	1.8 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.2 J Z	1.8 U	1.8 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1200 U	1000 U	1100 U	1100 U	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Dibenzo(a,h)anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Benzo(a)anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	0.77 J Z	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Aniline	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Benzoic Acid	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Acenaphthene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Diethylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Di-n-Butylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	7.7 J Z	7.7 J Z
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.5 J Z	1.8 U	1.8 U
Butylbenzylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	8.8 J Z	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Fluorene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Pentachlorophenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Naphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.4 J Z	1.8 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	380 U	390 U	340 U	360 U	360 U	360 U	340 U	360 U	360 U
Benzidine	ug/kg	3800 U	3800 U	3800 U	3900 U	3400 U	3600 U	3600 U	3600 U	3400 U	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzyl Alcohol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-005-SA5DS-SB-1.0-2.0	SL-010-SA5DS-SB-2.0-3.0	SL-019-SA5DS-SB-2.0-3.0
Sample Date		11/09/2011	11/08/2011	11/08/2011
SDG		DE283	DE282	DE282
Start Depth		1	2	2
End Depth		2	3	3
Chemical Name	Unit			
GRO (C5-C12)	mg/kg	1.2 U	2.2 U	1.2 U
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	1.3 U
EFH (C21-C30)	mg/kg	3.3	1.3 U	1.2 J Z
EFH (C30-C40)	mg/kg	8.5	1.6	5
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.3 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix B
Laboratory Reports
(On CD)

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/17/2011
Group Number: 1247140
SDG: DE151
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-042-SA5A-SB-3.5-4.5 Soil	6288929
SL-042-SA5A-SB-3.5-4.5MS Soil	6288930
SL-042-SA5A-SB-3.5-4.5MSD Soil	6288931
SL-042-SA5A-SB-3.5-4.5DUP Soil	6288932
DUP-17-SA5A-QC-051611 Soil	6288933
SL-167-SA5A-SB-1.0-2.0 Soil	6288934
EB15-SA5A-SB-051611 Water	6288935
SL-002-SA5DN-SB-4.0-5.0 Soil	6288936
SL-002-SA5DN-SB-9.0-10.0 Soil	6288937
SL-003-SA5DN-SB-0.5-1.5 Soil	6288938
SL-003-SA5DN-SB-8.0-9.0 Soil	6288939
SL-004-SA5DN-SB-3.5-4.5 Soil	6288940
SL-004-SA5DN-SB-9.0-10.0 Soil	6288941
TB-051611 Water	6288942

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	J	7.1	8.5		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.94
06192	Methylene Chloride	75-09-2	3.7	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.94
06192	Toluene	108-88-3	0.12	J	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.66
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	3.2		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,800		5.51	21.9		1
07914	Boron	7440-42-8	8.21		0.975	5.48		1
01650	Calcium	7440-70-2	3,050		6.71	21.9		1
01654	Iron	7439-89-6	28,200		5.16	21.9		1
01656	Lithium	7439-93-2	32.1		0.24	2.2		1
01657	Magnesium	7439-95-4	5,730		2.78	11.0		1
06958	Manganese	7439-96-5	252		0.0854	0.548		1
10145	Phosphorus	7723-14-0	322		0.613	11.0		1
01662	Potassium	7440-09-7	1,810		19.7	54.8		1
01667	Sodium	7440-23-5	112		40.8	110		1
07968	Strontium	7440-24-6	22.9		0.0679	0.548		1
06969	Tin	7440-31-5	3.40	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,450		0.416	1.10		1
10146	Zirconium	7440-67-7	5.24	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.312		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.05		0.0902	0.451		2
06126	Barium	7440-39-3	120		0.122	0.451		2
06127	Beryllium	7440-41-7	1.11		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.0923	J	0.0451	0.113		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	28.3		0.135	0.451		2
06132	Cobalt	7440-48-4	9.21		0.0226	0.113		2
06133	Copper	7440-50-8	11.1		0.0744	0.451		2
06135	Lead	7439-92-1	8.57		0.0117	0.226		2
06138	Molybdenum	7439-98-7	1.50		0.0564	0.113		2
06139	Nickel	7440-02-0	18.9		0.113	0.451		2
06141	Selenium	7782-49-2	0.248	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.833		0.0135	0.113		2
06145	Thallium	7440-28-0	0.295		0.0338	0.113		2
06148	Vanadium	7440-62-2	55.1		0.0248	0.113		2
06149	Zinc	7440-66-6	52.4		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	389		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.53		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 16:56	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 15:28	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 05:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 18:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 07:54	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288929
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 11:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 19:56	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	200	7.3	8.7		0.96
06192	Benzene	71-43-2	25	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	24	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	29	0.36	4.4		0.96
06192	Bromodichloromethane	75-27-4	22	0.09	4.4		0.96
06192	Bromoform	75-25-2	21	0.44	4.4		0.96
06192	Bromomethane	74-83-9	15	0.27	4.4		0.96
06192	2-Butanone	78-93-3	180	1.3	8.7		0.96
06192	n-Butylbenzene	104-51-8	22	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	25	0.06	4.4		0.96
06192	tert-Butylbenzene	98-06-6	24	0.17	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	26	0.15	4.4		0.96
06192	Chlorobenzene	108-90-7	23	0.12	4.4		0.96
06192	Chloroethane	75-00-3	14	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.33	4.4		0.96
06192	Chloroform	67-66-3	24	0.13	4.4		0.96
06192	Chloromethane	74-87-3	17	0.36	4.4		0.96
06192	2-Chlorotoluene	95-49-8	23	0.15	4.4		0.96
06192	4-Chlorotoluene	106-43-4	22	0.15	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	16	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.76	4.4		0.96
06192	Dibromochloromethane	124-48-1	22	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	21	0.19	4.4		0.96
06192	Dibromomethane	74-95-3	21	0.26	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	21	0.1	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	23	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	22	0.17	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	25	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	20	0.42	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	23	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	24	0.19	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	23	0.19	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	25	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.19	4.4		0.96
06192	Ethylbenzene	100-41-4	23	0.06	4.4		0.96
06192	Freon 113	76-13-1	22	0.12	4.4		0.96
06192	Freon 133a	75-88-7	17	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	24	0.15	4.4		0.96
06192	2-Hexanone	591-78-6	110	1.7	8.7		0.96
06192	Isopropylbenzene	98-82-8	24	0.06	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	24	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	91	0.42	8.7		0.96
06192	Methylene Chloride	75-09-2	22	0.26	4.4		0.96
06192	n-Propylbenzene	103-65-1	25	0.08	4.4		0.96

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Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	21		0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	23		0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.25	4.4		0.96
06192	Tetrachloroethene	127-18-4	27		0.22	4.4		0.96
06192	Toluene	108-88-3	24		0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.15	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	17		0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	25		0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	21		0.29	4.4		0.96
06192	Trichloroethene	79-01-6	24		0.16	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	19		0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	21		0.36	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	17		0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	46		0.19	4.4		0.96
06192	o-Xylene	95-47-6	22		0.19	4.4		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	240		5.2	16		23.02
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,600		190	560		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	3,000	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	560		1
04688	Benzyl alcohol	100-51-6	1,800		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,700		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190		1
04688	4-Chloroaniline	106-47-8	1,400		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1
04688	Chrysene	218-01-9	1,700		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1

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Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,100	J	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,700		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	560		1
04688	Hexachloroethane	67-72-1	1,500		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		19	190		1
04688	Isophorone	78-59-1	1,800		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600		19	190		1
04688	2-Methylphenol	95-48-7	1,800		38	190		1
04688	4-Methylphenol	106-44-5	1,900		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		19	190		1
04688	2-Nitroaniline	88-74-4	1,800		19	190		1
04688	3-Nitroaniline	99-09-2	1,700		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	1,800		19	190		1
04688	2-Nitrophenol	88-75-5	1,800		19	190		1
04688	4-Nitrophenol	100-02-7	1,600		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,800		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		19	190		1
04688	Pentachlorophenol	87-86-5	1,300		190	560		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,800		19	190		1
04688	Pyrene	129-00-0	1,900		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		38	190		1

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Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.76	1.9		1
10138	Acenaphthylene	208-96-8	34		0.38	1.9		1
10138	Anthracene	120-12-7	36		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	38		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	42		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	38		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	42		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	41		6.8	20		1
10138	Chrysene	218-01-9	37		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	42		0.76	1.9		1
10138	Diethylphthalate	84-66-2	38		6.8	20		1
10138	Dimethylphthalate	131-11-3	37		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	50		6.8	20		1
10138	Fluoranthene	206-44-0	39		0.76	1.9		1
10138	Fluorene	86-73-7	37		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	37		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	33		0.76	1.9		1
10138	Naphthalene	91-20-3	37		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	47		6.8	20		1
10138	Phenanthrene	85-01-8	35		0.76	1.9		1
10138	Pyrene	129-00-0	37		0.76	1.9		1
	Naphthalene was detected in the method blank at a concentration of 1.1 ug/l. The blank value was not subtracted from the analytical result.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	18		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	6.1		0.38	1.9		1
10225	PCB-1260	11096-82-5	21		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

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Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	42,500	5.51	21.9		1
07914	Boron	7440-42-8	216	0.975	5.48		1
01650	Calcium	7440-70-2	3,510	6.71	21.9		1
01654	Iron	7439-89-6	30,600	25.8	110		5
01656	Lithium	7439-93-2	146	0.24	2.2		1
01657	Magnesium	7439-95-4	6,270	2.78	11.0		1
06958	Manganese	7439-96-5	333	0.0854	0.548		1
10145	Phosphorus	7723-14-0	427	0.613	11.0		1
01662	Potassium	7440-09-7	3,010	19.7	54.8		1
01667	Sodium	7440-23-5	1,210	40.8	110		1
07968	Strontium	7440-24-6	135	0.0679	0.548		1
06969	Tin	7440-31-5	380	1.10	11.0		1
06970	Titanium	7440-32-6	1,720	0.416	1.10		1
10146	Zirconium	7440-67-7	108	0.920	5.48		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.16	0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.6	0.0876	0.438		2
06126	Barium	7440-39-3	147	0.118	0.438		2
06127	Beryllium	7440-41-7	2.24	0.0175	0.110		2
06128	Cadmium	7440-43-9	1.39	0.0438	0.110		2
06131	Chromium	7440-47-3	46.9	0.131	0.438		2
06132	Cobalt	7440-48-4	78.9	0.0219	0.110		2
06133	Copper	7440-50-8	24.5	0.0723	0.438		2
06135	Lead	7439-92-1	14.2	0.0114	0.219		2
06138	Molybdenum	7439-98-7	16.5	0.0548	0.110		2
06139	Nickel	7440-02-0	35.2	0.110	0.438		2
06141	Selenium	7782-49-2	2.82	0.0438	0.438		2
06142	Silver	7440-22-4	14.4	0.0131	0.110		2
06145	Thallium	7440-28-0	0.814	0.0329	0.110		2
06148	Vanadium	7440-62-2	79.2	0.0241	0.110		2
06149	Zinc	7440-66-6	57.1	0.613	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	508	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.5	1.1	5.7		5

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

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SL042 SDG#: DE151-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 17:18	Chelsea B Eastep	0.96
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 18:03	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 15:48	Jason M Long	23.02
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:13	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:09	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 05:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 18:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:42	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288930
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 07:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 12:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 20:08	Parker D Lindstrom	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	7.1	8.5		0.93
06192	Benzene	71-43-2	24	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	23	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	27	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	22	0.09	4.3		0.93
06192	Bromoform	75-25-2	21	0.43	4.3		0.93
06192	Bromomethane	74-83-9	14	0.27	4.3		0.93
06192	2-Butanone	78-93-3	170	1.3	8.5		0.93
06192	n-Butylbenzene	104-51-8	22	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	24	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	23	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	25	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	22	0.12	4.3		0.93
06192	Chloroethane	75-00-3	13	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.32	4.3		0.93
06192	Chloroform	67-66-3	23	0.13	4.3		0.93
06192	Chloromethane	74-87-3	17	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	22	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	21	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	20	0.62	6.2		1.09
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.74	4.3		0.93
06192	Dibromochloromethane	124-48-1	21	0.21	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	21	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	22	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	21	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	24	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	18	0.41	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	23	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	23	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	23	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	22	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	24	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	22	0.06	4.3		0.93
06192	Freon 113	76-13-1	21	0.12	4.3		0.93
06192	Freon 133a	75-88-7	21	0.62	6.2		1.09
06192	Hexachlorobutadiene	87-68-3	24	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	100	1.7	8.5		0.93
06192	Isopropylbenzene	98-82-8	23	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	23	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.22	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	91	0.41	8.5		0.93
06192	Methylene Chloride	75-09-2	21	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	24	0.07	4.3		0.93

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Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20		0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	22		0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.24	4.3		0.93
06192	Tetrachloroethene	127-18-4	26		0.21	4.3		0.93
06192	Toluene	108-88-3	23		0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	19		0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	23		0.21	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	21		0.29	4.3		0.93
06192	Trichloroethene	79-01-6	23		0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	18		0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	21		0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	22		0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	23		0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	17		0.21	4.3		0.93
06192	m+p-Xylene	179601-23-1	44		0.18	4.3		0.93
06192	o-Xylene	95-47-6	21		0.18	4.3		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	240		5.4	16		23.63
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,400		190	560		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	2,100	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	980		190	560		1
04688	Benzyl alcohol	100-51-6	1,700		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190		1
04688	4-Chloroaniline	106-47-8	1,300		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2-Dichlorobenzene	95-50-1	1,500		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	730		190	560		1
04688	2,4-Dinitrophenol	51-28-5	670	J	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,800		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,600		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	560		1
04688	Hexachloroethane	67-72-1	1,400		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		19	190		1
04688	Isophorone	78-59-1	1,700		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600		19	190		1
04688	2-Methylphenol	95-48-7	1,700		38	190		1
04688	4-Methylphenol	106-44-5	1,800		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		19	190		1
04688	2-Nitroaniline	88-74-4	1,900		19	190		1
04688	3-Nitroaniline	99-09-2	1,800		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	1,700		19	190		1
04688	2-Nitrophenol	88-75-5	1,800		19	190		1
04688	4-Nitrophenol	100-02-7	1,600		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,700		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		19	190		1
04688	Pentachlorophenol	87-86-5	1,100		190	560		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,800		19	190		1
04688	Pyrene	129-00-0	2,000		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		38	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol								
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		0.76	1.9		1
10138	Acenaphthylene	208-96-8	33		0.38	1.9		1
10138	Anthracene	120-12-7	36		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	43		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	44		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	41		6.8	20		1
10138	Chrysene	218-01-9	40		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	43		0.76	1.9		1
10138	Diethylphthalate	84-66-2	36		6.8	20		1
10138	Dimethylphthalate	131-11-3	36		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.8	20		1
10138	Fluoranthene	206-44-0	40		0.76	1.9		1
10138	Fluorene	86-73-7	36		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	42		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	35		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.76	1.9		1
10138	Naphthalene	91-20-3	32		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	30		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	47		6.8	20		1
10138	Phenanthrene	85-01-8	36		0.76	1.9		1
10138	Pyrene	129-00-0	38		0.76	1.9		1
Naphthalene was detected in the method blank at a concentration of 1.1 ug/l. The blank value was not subtracted from the analytical result.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	19		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	6.3		0.38	1.9		1
10225	PCB-1260	11096-82-5	22		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	40,800	5.67	22.6		1
07914	Boron	7440-42-8	226	1.00	5.64		1
01650	Calcium	7440-70-2	3,570	6.91	22.6		1
01654	Iron	7439-89-6	29,800	5.31	22.6		1
01656	Lithium	7439-93-2	148	0.25	2.3		1
01657	Magnesium	7439-95-4	6,200	2.86	11.3		1
06958	Manganese	7439-96-5	334	0.0880	0.564		1
10145	Phosphorus	7723-14-0	420	0.631	11.3		1
01662	Potassium	7440-09-7	2,950	20.3	56.4		1
01667	Sodium	7440-23-5	1,240	42.1	113		1
07968	Strontium	7440-24-6	137	0.0699	0.564		1
06969	Tin	7440-31-5	398	1.13	11.3		1
06970	Titanium	7440-32-6	1,720	0.429	1.13		1
10146	Zirconium	7440-67-7	112	0.947	5.64		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.24	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	13.9	0.0902	0.451		2
06126	Barium	7440-39-3	151	0.122	0.451		2
06127	Beryllium	7440-41-7	2.38	0.0180	0.113		2
06128	Cadmium	7440-43-9	1.49	0.0451	0.113		2
06131	Chromium	7440-47-3	44.7	0.135	0.451		2
06132	Cobalt	7440-48-4	75.5	0.0226	0.113		2
06133	Copper	7440-50-8	24.3	0.0744	0.451		2
06135	Lead	7439-92-1	14.5	0.0117	0.226		2
06138	Molybdenum	7439-98-7	16.2	0.0564	0.113		2
06139	Nickel	7440-02-0	35.0	0.113	0.451		2
06141	Selenium	7782-49-2	2.80	0.0451	0.451		2
06142	Silver	7440-22-4	14.2	0.0135	0.113		2
06145	Thallium	7440-28-0	0.860	0.0338	0.113		2
06148	Vanadium	7440-62-2	78.7	0.0248	0.113		2
06149	Zinc	7440-66-6	56.3	0.631	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.193	0.0032	0.112		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5A-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 17:41	Chelsea B Eastep	0.93
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 18:25	Chelsea B Eastep	1.09
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 16:08	Jason M Long	23.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:15	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 06:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 19:20	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:45	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288931
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288932
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,300		5.62	22.3		1
07914	Boron	7440-42-8	8.66		0.994	5.58		1
01650	Calcium	7440-70-2	2,950		6.84	22.3		1
01654	Iron	7439-89-6	27,900		5.26	22.3		1
01656	Lithium	7439-93-2	31.5		0.25	2.2		1
01657	Magnesium	7439-95-4	5,460		2.84	11.2		1
06958	Manganese	7439-96-5	196		0.0871	0.558		1
10145	Phosphorus	7723-14-0	291		0.625	11.2		1
01662	Potassium	7440-09-7	1,420		20.1	55.8		1
01667	Sodium	7440-23-5	109	J	41.6	112		1
07968	Strontium	7440-24-6	22.6		0.0692	0.558		1
06969	Tin	7440-31-5	3.28	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,370		0.424	1.12		1
10146	Zirconium	7440-67-7	5.63		0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.239		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.57		0.0876	0.438		2
06126	Barium	7440-39-3	97.2		0.118	0.438		2
06127	Beryllium	7440-41-7	0.986		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0438	U	0.0438	0.110		2
06131	Chromium	7440-47-3	25.6		0.131	0.438		2
06132	Cobalt	7440-48-4	6.33		0.0219	0.110		2
06133	Copper	7440-50-8	7.82		0.0723	0.438		2
06135	Lead	7439-92-1	7.77		0.0114	0.219		2
06138	Molybdenum	7439-98-7	1.70		0.0548	0.110		2
06139	Nickel	7440-02-0	15.5		0.110	0.438		2
06141	Selenium	7782-49-2	0.232	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.186		0.0131	0.110		2
06145	Thallium	7440-28-0	0.237		0.0329	0.110		2
06148	Vanadium	7440-62-2	50.3		0.0241	0.110		2
06149	Zinc	7440-66-6	43.1		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.23	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288932
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**ASTM D1498**		mV	mV	mV	mV	
01821	32a OR Potential	n.a.	400	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11626	28a Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 06:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288932
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL042 SDG#: DE151-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 07:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 12:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 20:39	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.97
06192	Methylene Chloride	75-09-2	4.1	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.17	J	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.0	U	6.0	18		26.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.7	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.9		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		5.54	22.0		1
07914	Boron	7440-42-8	8.74		0.981	5.51		1
01650	Calcium	7440-70-2	2,780		6.76	22.0		1
01654	Iron	7439-89-6	26,800		5.19	22.0		1
01656	Lithium	7439-93-2	32.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,650		2.80	11.0		1
06958	Manganese	7439-96-5	304		0.0860	0.551		1
10145	Phosphorus	7723-14-0	322		0.617	11.0		1
01662	Potassium	7440-09-7	2,180		19.8	55.1		1
01667	Sodium	7440-23-5	108	J	41.1	110		1
07968	Strontium	7440-24-6	21.9		0.0683	0.551		1
06969	Tin	7440-31-5	3.31	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,520		0.419	1.10		1
10146	Zirconium	7440-67-7	4.56	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.250		0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.91		0.0882	0.441		2
06126	Barium	7440-39-3	114		0.119	0.441		2
06127	Beryllium	7440-41-7	0.849		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0742	J	0.0441	0.110		2
06131	Chromium	7440-47-3	20.9		0.132	0.441		2
06132	Cobalt	7440-48-4	8.87		0.0220	0.110		2
06133	Copper	7440-50-8	8.59		0.0727	0.441		2
06135	Lead	7439-92-1	6.44		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.918		0.0551	0.110		2
06139	Nickel	7440-02-0	15.2		0.110	0.441		2
06141	Selenium	7782-49-2	0.207	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.391		0.0132	0.110		2
06145	Thallium	7440-28-0	0.306		0.0331	0.110		2
06148	Vanadium	7440-62-2	43.0		0.0242	0.110		2
06149	Zinc	7440-66-6	54.4		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	407		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 18:47	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 16:48	Jason M Long	26.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:19	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 06:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 20:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 12:59	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:27	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288933
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP17 SDG#: DE151-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 13:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 13:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 20:58	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.9		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.4		1.02
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		1.02
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		1.02
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		1.02
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		1.02
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		1.02
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		1.02
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		1.02
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		1.02
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		1.02
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		1.02
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		1.02
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		1.02
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		1.02
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		1.02
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		1.02
06192	Isopropylbenzene	98-82-8	0.66	J	0.07	4.4		1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		1.02
06192	Methylene Chloride	75-09-2	6.2		0.27	4.4		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		1.02

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.4		1.02
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		1.02
06192	Toluene	108-88-3	0.18	J	0.09	4.4		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		1.02
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		1.02
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.66	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.98	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.2	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.83	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.98	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.76	J	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.43
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	J	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.9		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		5.23	20.8		1
07914	Boron	7440-42-8	7.69		0.926	5.20		1
01650	Calcium	7440-70-2	2,710		6.38	20.8		1
01654	Iron	7439-89-6	20,000		4.90	20.8		1
01656	Lithium	7439-93-2	18.8		0.23	2.1		1
01657	Magnesium	7439-95-4	4,390		2.64	10.4		1
06958	Manganese	7439-96-5	269		0.0812	0.520		1
10145	Phosphorus	7723-14-0	340		0.583	10.4		1
01662	Potassium	7440-09-7	2,160		18.7	52.0		1
01667	Sodium	7440-23-5	88.9	J	38.8	104		1
07968	Strontium	7440-24-6	17.3		0.0645	0.520		1
06969	Tin	7440-31-5	2.92	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,120		0.395	1.04		1
10146	Zirconium	7440-67-7	2.97	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.269		0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.02		0.0841	0.420		2
06126	Barium	7440-39-3	90.4		0.113	0.420		2
06127	Beryllium	7440-41-7	0.749		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.191		0.0420	0.105		2
06131	Chromium	7440-47-3	20.7		0.126	0.420		2
06132	Cobalt	7440-48-4	7.70		0.0210	0.105		2
06133	Copper	7440-50-8	27.4		0.0693	0.420		2
06135	Lead	7439-92-1	10.3		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.573		0.0525	0.105		2
06139	Nickel	7440-02-0	14.3		0.105	0.420		2
06141	Selenium	7782-49-2	0.154	J	0.0420	0.420		2
06142	Silver	7440-22-4	1.47		0.0126	0.105		2
06145	Thallium	7440-28-0	0.322		0.0315	0.105		2
06148	Vanadium	7440-62-2	41.4		0.0231	0.105		2
06149	Zinc	7440-66-6	64.5		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.35		0.0149	0.520		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.92	J	0.87	1.6		1

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL167 SDG#: DE151-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	415		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-167-SA5A-SB-1.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 19:10	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 17:08	Jason M Long	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:25	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 17:46	Matthew S Woods	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 06:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 21:26	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 15:39	Elizabeth J Marin	26.43
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:24	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 02:04	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:06	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 13:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 06:36	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/19/2011 23:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 18:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 19:18	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2

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Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288934
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL167 SDG#: DE151-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:46	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 14:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 14:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 21:11	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	6		1
04678	Benzidine	92-87-5	22	U	22	67		1
04678	Benzoic acid	65-85-0	7	U	7	17		1
04678	Benzyl alcohol	100-51-6	6	U	6	17		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6		1
04678	Carbazole	86-74-8	1	U	1	6		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6		1
04678	4-Chloroaniline	106-47-8	1	U	1	6		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6		1
04678	2-Chlorophenol	95-57-8	1	U	1	6		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6		1
04678	Dibenzofuran	132-64-9	1	U	1	6		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6		1
04678	Hexachlorobenzene	118-74-1	1	U	1	6		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6		1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17		1
04678	Hexachloroethane	67-72-1	1	U	1	6		1
04678	Isophorone	78-59-1	1	U	1	6		1
04678	2-Methylphenol	95-48-7	1	U	1	6		1
04678	4-Methylphenol	106-44-5	2	U	2	6		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	6		1
04678	3-Nitroaniline	99-09-2	1	U	1	6		1
04678	4-Nitroaniline	100-01-6	1	U	1	6		1
04678	Nitrobenzene	98-95-3	1	U	1	6		1
04678	2-Nitrophenol	88-75-5	1	U	1	6		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	17		1
04678	Phenol	108-95-2	1	U	1	6		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054		1
10137	Butylbenzylphthalate	85-68-7	0.054	U	0.054	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.054	U	0.054	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.054		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054		1
10137	Diethylphthalate	84-66-2	0.054	U	0.054	1.1		1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.054	U	0.054	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.054		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.054		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.054		1
10137	1-Methylnaphthalene	90-12-0	0.031	J	0.011	0.054		1
10137	2-Methylnaphthalene	91-57-6	0.033	J	0.011	0.054		1
10137	Naphthalene	91-20-3	0.22		0.032	0.054		1
10137	N-Nitrosodimethylamine	62-75-9	0.030	J	0.011	0.054		1
10137	Di-n-octylphthalate	117-84-0	0.054	U	0.054	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.054		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.054		1
Reporting limits were raised due to limited sample volume.								
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16	U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0195	J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111372AA	05/17/2011 23:51	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111371AA	05/17/2011 13:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111371AA	05/17/2011 13:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111372AA	05/17/2011 23:51	Kevin A Sposito	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11138WAD026	05/21/2011 07:22	Brian K Graham	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288935
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-15 SDG#: DE151-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138WAG026	05/19/2011 23:36	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11138WAD026	05/18/2011 15:20	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11138WAG026	05/18/2011 15:20	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111380016A	05/20/2011 21:42	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111380016A	05/19/2011 02:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
08014	Boron	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01750	Calcium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01754	Iron	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01756	Lithium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
07058	Manganese	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01762	Potassium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
01767	Sodium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
08068	Strontium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
07069	Tin	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
07070	Titanium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111381848002	05/19/2011 18:54	John P Hook	1
06024	Antimony	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111386050002D	05/20/2011 11:40	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111386050002C	05/20/2011 11:40	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111386050002B	05/20/2011 11:40	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111386050002A	05/20/2011 11:40	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111385713002	05/19/2011 09:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111381848002	05/19/2011 09:10	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111386050002	05/19/2011 09:08	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111385713002	05/19/2011 04:30	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11139196902B	05/20/2011 07:48	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 14:03	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11137196401A	05/17/2011 11:24	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11137020001A	05/17/2011 20:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	4.5		0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.08
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.9	J	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,000		5.77	23.0		1
07914	Boron	7440-42-8	15.5		1.02	5.74		1
01650	Calcium	7440-70-2	13,300		7.04	23.0		1
01654	Iron	7439-89-6	33,800		27.0	115		5
01656	Lithium	7439-93-2	28.4		0.25	2.3		1
01657	Magnesium	7439-95-4	7,000		2.92	11.5		1
06958	Manganese	7439-96-5	515		0.0896	0.574		1
10145	Phosphorus	7723-14-0	167		0.643	11.5		1
01662	Potassium	7440-09-7	3,130		20.7	57.4		1
01667	Sodium	7440-23-5	659		42.8	115		1
07968	Strontium	7440-24-6	61.6		0.0712	0.574		1
06969	Tin	7440-31-5	3.05	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,100		0.436	1.15		1
10146	Zirconium	7440-67-7	5.51	J	0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.446		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.95		0.0883	0.442		2
06126	Barium	7440-39-3	196		0.119	0.442		2
06127	Beryllium	7440-41-7	1.19		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.216		0.0442	0.110		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0024 SDG#: DE151-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	39.9	0.132	0.442		2
06132	Cobalt	7440-48-4	14.9	0.0221	0.110		2
06133	Copper	7440-50-8	18.6	0.0729	0.442		2
06135	Lead	7439-92-1	13.0	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.423	0.0552	0.110		2
06139	Nickel	7440-02-0	32.7	0.110	0.442		2
06141	Selenium	7782-49-2	0.0763 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0765 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.402	0.0331	0.110		2
06148	Vanadium	7440-62-2	75.4	0.0243	0.110		2
06149	Zinc	7440-66-6	58.2	0.618	3.31		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	24.2	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	ASTM D1498		**mV**	**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	418	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.92	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-002-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
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14420 Albemarle Point Place
Suite 210
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S0024 SDG#: DE151-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 19:32	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 17:27	Jason M Long	22.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:29	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 07:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 21:58	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 13:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:46	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288936
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0024 SDG#: DE151-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 14:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 21:17	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,300		5.71	22.7		1
07914	Boron	7440-42-8	15.0		1.01	5.68		1
01650	Calcium	7440-70-2	12,000		6.96	22.7		1
01654	Iron	7439-89-6	35,000		26.7	114		5
01656	Lithium	7439-93-2	28.3		0.25	2.3		1
01657	Magnesium	7439-95-4	6,960		2.88	11.4		1
06958	Manganese	7439-96-5	517		0.0886	0.568		1
10145	Phosphorus	7723-14-0	256		0.636	11.4		1
01662	Potassium	7440-09-7	3,300		20.4	56.8		1
01667	Sodium	7440-23-5	739		42.4	114		1
07968	Strontium	7440-24-6	55.0		0.0704	0.568		1
06969	Tin	7440-31-5	3.20	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,390		0.431	1.14		1
10146	Zirconium	7440-67-7	7.08		0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.425		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.4		0.0882	0.441		2
06126	Barium	7440-39-3	165		0.119	0.441		2
06127	Beryllium	7440-41-7	1.10		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.243		0.0441	0.110		2
06131	Chromium	7440-47-3	35.2		0.132	0.441		2
06132	Cobalt	7440-48-4	10.5		0.0221	0.110		2
06133	Copper	7440-50-8	19.8		0.0728	0.441		2
06135	Lead	7439-92-1	10.5		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.651		0.0551	0.110		2
06139	Nickel	7440-02-0	25.6		0.110	0.441		2
06141	Selenium	7782-49-2	0.0860	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0385	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.425		0.0331	0.110		2
06148	Vanadium	7440-62-2	70.7		0.0243	0.110		2
06149	Zinc	7440-66-6	66.5		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.6		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	408		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011	07:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011	22:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011	03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011	03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011	13:54	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011	05:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011	11:49	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011	07:54	Tara L Snyder	1

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Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288937
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0029 SDG#: DE151-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 14:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 21:29	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
01821	32a OR Potential	ASTM D1498	1	11139182102A	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402A	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22		7.0	8.4		0.87
06192	Benzene	71-43-2	0.21	J	0.10	4.2		0.87
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.87
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.87
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.87
06192	2-Butanone	78-93-3	3.9	J	1.3	8.4		0.87
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.87
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.87
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.87
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.87
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.87
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.87
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.87
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.87
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.87
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.87
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.87
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.87
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.87
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.87
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.87
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.87
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.87
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.87
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.87
06192	Methylene Chloride	75-09-2	5.1		0.25	4.2		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.87

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.87
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.87
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		21.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	199	U	199	399		10

The internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	6,600		710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	6.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.96	U	0.96	2.9		2
10199	EFH (C15-C20)	n.a.	1.8	J	0.96	2.9		2
10199	EFH (C21-C30)	n.a.	11		0.96	2.9		2
10199	EFH (C30 - C40)	n.a.	68		0.96	2.9		2
10199	EFH (C8-C11)	n.a.	0.96	U	0.96	2.9		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	230	J	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,800		5.86	23.3		1
07914	Boron	7440-42-8	16.5		1.04	5.83		1
01650	Calcium	7440-70-2	6,790		7.14	23.3		1
01654	Iron	7439-89-6	35,100		27.4	117		5
01656	Lithium	7439-93-2	26.1		0.26	2.3		1
01657	Magnesium	7439-95-4	7,060		2.96	11.7		1
06958	Manganese	7439-96-5	698		0.0909	0.583		1
10145	Phosphorus	7723-14-0	239		0.653	11.7		1
01662	Potassium	7440-09-7	4,160		21.0	58.3		1
01667	Sodium	7440-23-5	208		43.5	117		1
07968	Strontium	7440-24-6	43.6		0.0723	0.583		1
06969	Tin	7440-31-5	3.10	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,180		0.443	1.17		1
10146	Zirconium	7440-67-7	6.40		0.979	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.410		0.0706	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.73		0.0942	0.471		2
06126	Barium	7440-39-3	193		0.127	0.471		2
06127	Beryllium	7440-41-7	1.21		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.157		0.0471	0.118		2
06131	Chromium	7440-47-3	43.3		0.141	0.471		2
06132	Cobalt	7440-48-4	14.9		0.0235	0.118		2
06133	Copper	7440-50-8	23.1		0.0777	0.471		2
06135	Lead	7439-92-1	14.0		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.723		0.0588	0.118		2
06139	Nickel	7440-02-0	30.3		0.118	0.471		2
06141	Selenium	7782-49-2	0.216	J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0639	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.514		0.0353	0.118		2
06148	Vanadium	7440-62-2	83.2		0.0259	0.118		2
06149	Zinc	7440-66-6	65.2		0.659	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.0		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.96	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	368		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-003-SA5DN-SB-1.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 19:54	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 17:47	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:37	Lois E Hiltz	n.a.

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:35	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 16:03	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 08:13	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 23:01	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 16:16	Elizabeth J Marin	21.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:34	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	06/01/2011 07:16	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:16	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111390003A	05/19/2011 18:34	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 14:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111390003A	05/19/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 09:55	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:03	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 18:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 06:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	2	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:53	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1

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Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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S0030 SDG#: DE151-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 07:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 14:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 14:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 15:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243201A	05/23/2011 21:48	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:56	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1

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Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288938
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0030 SDG#: DE151-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	U	7.7	9.2		1.03
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1.03
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.03
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.03
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.03
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.03
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.03
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1.03
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.03
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.03
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.03
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.03
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.03
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.03
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1.03
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.03
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.03
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.03
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.03
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.03
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.03
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.03
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.03
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.03
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.03
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.03
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.03
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.03
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.03
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.03
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.03
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.03
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.03
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.03
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.03
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.03
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.03
06192	Methylene Chloride	75-09-2	1.1	J	0.28	4.6		1.03
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.03

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SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		1.03
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.03
06192	Toluene	108-88-3	0.12	J	0.09	4.6		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.03
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.03
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.03
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.03
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1.03
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.03
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.2
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
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S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1

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S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.86	J	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	1.0	J	0.89	2.7		2
10199	EFH (C21-C30)	n.a.	9.0		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	47		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		5.46	21.7		1
07914	Boron	7440-42-8	10.9		0.965	5.42		1
01650	Calcium	7440-70-2	34,500		6.65	21.7		1
01654	Iron	7439-89-6	34,400		25.5	108		5
01656	Lithium	7439-93-2	28.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,350		2.76	10.8		1
06958	Manganese	7439-96-5	237		0.0846	0.542		1
10145	Phosphorus	7723-14-0	523		0.607	10.8		1
01662	Potassium	7440-09-7	2,650		19.5	54.2		1
01667	Sodium	7440-23-5	676		40.5	108		1
07968	Strontium	7440-24-6	52.6		0.0673	0.542		1
06969	Tin	7440-31-5	3.25	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,400		0.412	1.08		1
10146	Zirconium	7440-67-7	5.09	J	0.911	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.2		0.0876	0.438		2
06126	Barium	7440-39-3	149		0.118	0.438		2
06127	Beryllium	7440-41-7	1.04		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.306		0.0438	0.110		2
06131	Chromium	7440-47-3	36.3		0.131	0.438		2
06132	Cobalt	7440-48-4	8.24		0.0219	0.110		2
06133	Copper	7440-50-8	21.1		0.0723	0.438		2
06135	Lead	7439-92-1	10.4		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.415		0.0548	0.110		2
06139	Nickel	7440-02-0	23.2		0.110	0.438		2
06141	Selenium	7782-49-2	0.0623	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0713	J	0.0131	0.110		2
06145	Thallium	7440-28-0	0.437		0.0329	0.110		2
06148	Vanadium	7440-62-2	68.2		0.0241	0.110		2
06149	Zinc	7440-66-6	55.5		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0306	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.8		0.89	1.7		1

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Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		**mV**		**mV**	**mV**	**mV**	
01821	32a OR Potential	n.a.	357		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.36		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-003-SA5DN-SB-8.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 20:16	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 18:08	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:48	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 18:21	Matthew S Woods	1

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Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 08:39	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/20/2011 23:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 16:52	Elizabeth J Marin	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:47	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 02:47	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:25	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 14:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 10:45	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 18:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 23:02	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 11:56	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 08:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2

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Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288939
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0038 SDG#: DE151-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 15:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 15:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 22:07	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:57	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	15		6.7	8.0		0.84
06192	Benzene	71-43-2	0.17	J	0.10	4.0		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.84
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.84
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.84
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.84
06192	2-Butanone	78-93-3	3.2	J	1.2	8.0		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.84
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.84
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.84
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.84
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.84
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.84
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.84
06192	Methylene Chloride	75-09-2	0.88	J	0.24	4.0		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.84

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.84
06192	Toluene	108-88-3	0.15	J	0.08	4.0		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.84
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		22.28
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	287	J	200	399		10
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.86	J	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.96	J	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	1.0	J	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		24.18
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.93	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	630		120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,100		5.79	23.0		1
07914	Boron	7440-42-8	18.0		1.02	5.76		1
01650	Calcium	7440-70-2	5,670		7.06	23.0		1
01654	Iron	7439-89-6	33,100		27.1	115		5
01656	Lithium	7439-93-2	25.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,740		2.92	11.5		1
06958	Manganese	7439-96-5	441		0.0898	0.576		1
10145	Phosphorus	7723-14-0	241		0.645	11.5		1
01662	Potassium	7440-09-7	4,490		20.7	57.6		1
01667	Sodium	7440-23-5	236		43.0	115		1
07968	Strontium	7440-24-6	40.7		0.0714	0.576		1
06969	Tin	7440-31-5	3.18	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,510		0.438	1.15		1
10146	Zirconium	7440-67-7	8.13		0.967	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.392		0.0698	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.72		0.0930	0.465		2
06126	Barium	7440-39-3	174		0.126	0.465		2
06127	Beryllium	7440-41-7	1.10		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.418		0.0465	0.116		2
06131	Chromium	7440-47-3	40.0		0.140	0.465		2
06132	Cobalt	7440-48-4	11.7		0.0233	0.116		2
06133	Copper	7440-50-8	21.8		0.0767	0.465		2
06135	Lead	7439-92-1	13.2		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.609		0.0581	0.116		2
06139	Nickel	7440-02-0	25.6		0.116	0.465		2
06141	Selenium	7782-49-2	0.288	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0679	J	0.0140	0.116		2
06145	Thallium	7440-28-0	0.471		0.0349	0.116		2
06148	Vanadium	7440-62-2	76.5		0.0256	0.116		2
06149	Zinc	7440-66-6	69.8		0.651	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.96	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.22	U	0.22	0.60		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	383		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.96		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA5DN-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 20:39	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011 18:28	Jason M Long	22.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011 20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011 19:53	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 16:21	Matthew S Woods	10

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 09:04	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/24/2011 23:29	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 17:29	Elizabeth J Marin	24.18
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:52	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 03:29	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:35	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 14:50	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 07:01	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 19:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 18:33	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 12:00	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 08:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2

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Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288940
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0043 SDG#: DE151-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 15:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 15:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 15:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 22:19	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 10:59	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.87
06192	Methylene Chloride	75-09-2	0.81	J	0.24	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.61	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.81	J	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.74
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.2		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	17		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1

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Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,800		5.54	22.0		1
07914	Boron	7440-42-8	12.7		0.980	5.50		1
01650	Calcium	7440-70-2	67,600		33.7	110		5
01654	Iron	7439-89-6	23,800		5.18	22.0		1
01656	Lithium	7439-93-2	25.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,230		2.80	11.0		1
06958	Manganese	7439-96-5	174		0.0859	0.550		1
10145	Phosphorus	7723-14-0	208		0.616	11.0		1
01662	Potassium	7440-09-7	2,640		19.8	55.0		1
01667	Sodium	7440-23-5	581		41.1	110		1
07968	Strontium	7440-24-6	86.1		0.0682	0.550		1
06969	Tin	7440-31-5	2.81	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,190		0.418	1.10		1
10146	Zirconium	7440-67-7	5.21	J	0.925	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.52		0.0889	0.445		2
06126	Barium	7440-39-3	121		0.120	0.445		2
06127	Beryllium	7440-41-7	0.735		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.150		0.0445	0.111		2
06131	Chromium	7440-47-3	24.6		0.133	0.445		2
06132	Cobalt	7440-48-4	6.83		0.0222	0.111		2
06133	Copper	7440-50-8	12.9		0.0734	0.445		2
06135	Lead	7439-92-1	6.59		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.426		0.0556	0.111		2
06139	Nickel	7440-02-0	16.3		0.111	0.445		2
06141	Selenium	7782-49-2	0.0513	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0345	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.295		0.0333	0.111		2
06148	Vanadium	7440-62-2	49.3		0.0245	0.111		2
06149	Zinc	7440-66-6	48.3		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.9		0.91	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0049 SDG#: DE151-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	ASTM D1498		mV		mV	mV	mV	
01821	32a OR Potential	n.a.	369		10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-004-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011	21:01	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111381AA	05/18/2011	18:48	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011	20:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113724435	05/17/2011	20:06	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113724435	05/17/2011	20:06	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113724435	05/17/2011	19:59	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011	18:56	Matthew S Woods	1

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 09:29	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 00:34	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 18:05	Elizabeth J Marin	21.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201113724435	05/17/2011 19:58	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 04:12	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 19:54	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111380023A	05/25/2011 15:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111380023A	05/19/2011 05:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 07:25	Tracy A Cole	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 00:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111370018A	05/20/2011 19:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111390019A	05/24/2011 22:17	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111390019A	05/20/2011 03:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111370018A	05/20/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111375708002	05/18/2011 12:03	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111375708002	05/18/2011 08:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111371026001D	05/18/2011 09:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2

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Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288941
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0049 SDG#: DE151-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111371026001C	05/18/2011 09:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111371026001B	05/18/2011 09:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111371026001A	05/18/2011 09:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111371026001A	05/19/2011 08:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111375711002	05/18/2011 06:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111375708002	05/17/2011 20:50	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111371026001	05/17/2011 21:12	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111375711002	05/18/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11141621202B	05/22/2011 16:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11141621202B	05/22/2011 16:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11141621201A	05/21/2011 16:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243201A	05/23/2011 22:31	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11144102201A	05/25/2011 11:32	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11141621202B	05/21/2011 11:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11141621201A	05/21/2011 09:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11144102201A	05/24/2011 09:10	Nancy J Shoop	1
01821	32a OR Potential	ASTM D1498	1	11139182102B	05/19/2011 14:45	Michele L Graham	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11139039402B	05/19/2011 14:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243201A	05/20/2011 17:20	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-051611 Water
SSFL Area IV Collocated Soil Sampling
TB-051611

LLI Sample # WW 6288942
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB516 SDG#: DE151-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-051611 Water
SSFL Area IV Collocated Soil Sampling
TB-051611

LLI Sample # WW 6288942
LLI Group # 1247140
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:30

Submitted: 05/17/2011 09:40
Reported: 06/21/2011 13:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB516 SDG#: DE151-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111372AA	05/18/2011 00:12	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111371AA	05/17/2011 13:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111371AA	05/17/2011 13:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111372AA	05/18/2011 00:12	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11143A20A	05/23/2011 23:01	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11143A20A	05/23/2011 23:01	Carrie E Miller	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111401AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941									
Acetone	6.7	U	6.7	8.0	ug/kg	136		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	103		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	125*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	104		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	65		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	127		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	61		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	68		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	96		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	77		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	97		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	85		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	81		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	114		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	115		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	103		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	77		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	104		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	96		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	117		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	78		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	100		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	100		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	68		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E111371AA	Sample number(s): 6288935,6288942									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	109	80-123	1	30
Batch number: E111381AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	106	70-130	2	30
Batch number: L111372AA	Sample number(s): 6288935,6288942									
Acetone	6	U	6.	20	ug/l	90	85	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	99	96	79-120	3	30
Bromobenzene	1	U	1.	5	ug/l	94	89	80-120	5	30
Bromochloromethane	1	U	1.	5	ug/l	96	90	80-120	6	30
Bromodichloromethane	1	U	1.	5	ug/l	90	87	80-120	4	30
Bromoform	1	U	1.	5	ug/l	81	78	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	117	113	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	91	87	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	96	91	78-120	5	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	92	87	75-123	6	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	91	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	110	106	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	93	90	56-129	4	30
Chloroform	0.8	U	0.8	5	ug/l	96	92	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	109	104	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	93	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	93	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	54	55	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	87	84	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	88	84	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	92	80-120	5	30
Dibromomethane	1	U	1.	5	ug/l	92	87	80-120	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	94	91	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	89	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	97	94	79-120	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	95	92	70-130	4	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	97	95	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	93	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	92	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	93	88	77-124	5	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	93	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	86	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	93	79-120	5	30
Freon 113	2	U	2.	10	ug/l	100	92	69-128	8	30
Freon 133a	2	U	2.	5	ug/l	95	93	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	82	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	91	87	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	98	93	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	92	89	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	89	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	87	70-121	4	30
Methylene Chloride	2	U	2.	5	ug/l	98	93	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	94	92	80-120	3	30
Styrene	1	U	1.	5	ug/l	94	90	80-120	5	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	88	80-120	6	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	101	96	71-120	5	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	93	87	80-121	6	30
Toluene	0.7	U	0.7	5	ug/l	98	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	90	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	87	83	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	92	89	75-127	3	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	92	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	93	90	80-120	4	30
Trichlorofluoromethane	2	U	2.	5	ug/l	106	102	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	96	90	80-120	7	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	94	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	92	75-120	5	30
Vinyl Chloride	1	U	1.	5	ug/l	109	106	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	96	91	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	94	91	80-120	3	30
Batch number: 11138WAD026	Sample number(s): 6288935									
Aniline	1	U	1.	5	ug/l	72	80	49-101	11	30
Benzidine	20	U	20.	60	ug/l	68	72	34-117	4	30
Benzoic acid	6	U	6.	15	ug/l	25	34	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	71	85	66-97	17	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	90	95	82-117	5	30
Carbazole	1	U	1.	5	ug/l	92	93	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	92	94	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	82	85	42-124	4	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	88	92	74-124	4	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	82	84	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	79	82	62-127	5	30
2-Chloronaphthalene	2	U	2.	5	ug/l	85	90	54-132	6	30
2-Chlorophenol	1	U	1.	5	ug/l	85	88	77-108	4	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	94	101	82-111	7	30
Dibenzofuran	1	U	1.	5	ug/l	90	94	83-108	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	85	86	55-118	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	84	87	50-119	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	85	53-119	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	64	71	49-111	11	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	94	96	80-109	2	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	86	89	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	91	95	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	96	98	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	79	85	52-131	7	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	95	100	81-115	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	92	93	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	83	85	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	98	101	81-118	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	93	94	57-124	0	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	72	36-118	7	30
Hexachloroethane	1	U	1.	5	ug/l	76	78	52-113	2	30
Isophorone	1	U	1.	5	ug/l	90	91	74-117	1	30
2-Methylphenol	1	U	1.	5	ug/l	74	81	64-101	10	30
4-Methylphenol	2	U	2.	5	ug/l	60*	66	61-103	9	30
2-Nitroaniline	1	U	1.	5	ug/l	91	90	83-116	1	30
3-Nitroaniline	1	U	1.	5	ug/l	92	95	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	80	82	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	87	91	75-109	4	30
2-Nitrophenol	1	U	1.	5	ug/l	88	89	86-120	2	30
4-Nitrophenol	10	U	10.	30	ug/l	25	31	16-78	20	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	82	88	69-110	7	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	86	88	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	77	76	53-110	2	30
Phenol	1	U	1.	5	ug/l	33	40	21-67	20	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	94	71-112	3	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	86	89	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	87	89	81-113	2	30
Batch number: 11138WAG026	Sample number(s): 6288935									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	97	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	95	95	70-110	0	30
Anthracene	0.010	U	0.010	0.050	ug/l	102	101	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	106	105	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	107	109	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	122	124*	69-123	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	107	105	57-131	2	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	105	109	59-130	4	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	94	90	40-138	4	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	101	97	74-131	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	104	103	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	107	108	55-134	2	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	99	99	57-134	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	88	88	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	118	107	57-154	10	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	102	106	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	104	103	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	105	107	69-124	2	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	101	100	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	90	89	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	96	96	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	48	50	36-89	5	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	117	124	57-145	6	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	98	97	76-111	0	30
Pyrene	0.010	U	0.010	0.050	ug/l	100	98	69-118	2	30
Batch number: 11139SLG026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288939,6288941									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	116		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	114		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	117		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	103		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	136		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	115		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	1.1	J	0.67	1.7	ug/kg	104		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	124		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11139SLH026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941									
Acenaphthene	17	U	17.	170	ug/kg	96		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	98		75-122		
Aniline	170 U		170.	500	ug/kg	71		34-94		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	99		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	96		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	89		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	69		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	98		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	91		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	90		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	44		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	44*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	24*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	89		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	84		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	92		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	105		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	66		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
Pyrene	17	U	17.	170	ug/kg	104		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11143SLE026	Sample number(s): 6288940									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	123		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	123		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	112		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	122		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		56-121		
Batch number: 11146SLE026	Sample number(s): 6288934,6288938-6288941									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 11139A34A	Sample number(s): 6288934,6288938-6288941									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71	73	67-119	2	30
Batch number: 11143A20A	Sample number(s): 6288942									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111430006A	Sample number(s): 6288938									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	126*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	107	54-134	7	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	107	54-134	7	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	129		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	119		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	108		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	145*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	113		80-120		
PETN	800 U		800.	2,400	ug/kg	132*		80-120		
RDX	50	U	50.	120	ug/kg	116		75-131		
Tetryl	61	U	61.	120	ug/kg	82		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	119		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 111450004A	Sample number(s): 6288934,6288939-6288941									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100	U	100.	300	ug/kg	101		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	132*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	97		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	106		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800	U	800.	2,400	ug/kg	123*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	72		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111400002A	Sample number(s): 6288934,6288938-6288941									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	92		80-126		
Batch number: 111390003A	Sample number(s): 6288938									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		70-130		
Batch number: 111380016A	Sample number(s): 6288935									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	88*	94*	35-84	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	104	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	82	100	56-135	20	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111380023A	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	103	99	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	110		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	119		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111380034A	Sample number(s): 6288934,6288938-6288941									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	80		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	82		76-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	75		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		54-107		
Batch number: 111370018A	Sample number(s): 6288934,6288938-6288941									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	91		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	91		75-125		
Batch number: 111390030A	Sample number(s): 6288934,6288938-6288941									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	97		68-129		
Batch number: 111390019A	Sample number(s): 6288934,6288939-6288941									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
Batch number: 111460029A	Sample number(s): 6288938									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
Batch number: 111371026001A	Sample number(s): 6288929-6288934,6288936-6288941									
Antimony	0.0600	U	0.0600	0.200	mg/kg	149		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	102		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	99		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	114		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		82-118		
Copper	0.0827	J	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0381	J	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	100		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	100		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	100		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	106		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	100		81-112		
Batch number: 111371026001B	Sample number(s): 6288929-6288934,6288936-6288941									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		83-111		
Batch number: 111371026001C	Sample number(s): 6288929-6288934,6288936-6288941									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	111		78-122		
Batch number: 111371026001D	Sample number(s): 6288929-6288934,6288936-6288941									
Barium	0.108	U	0.108	0.400	mg/kg	100		81-111		
Batch number: 111375708002	Sample number(s): 6288929-6288934,6288936-6288941									
Aluminum	5.03	U	5.03	20.0	mg/kg	97		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	92		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	102		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		89-112		
Phosphorus	1.24 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	99		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.54 J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	102		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111375711002	Sample number(s): 6288929-6288934,6288936-6288941								
Mercury	0.0028 U	0.0028	0.0974	mg/kg	102		88-123		
Batch number: 111381848002	Sample number(s): 6288935								
Aluminum	0.0834 U	0.0834	0.200	mg/l	99	96	90-112	3	20
Boron	0.0181 J	0.0138	0.0500	mg/l	98	96	89-110	2	20
Calcium	0.0702 U	0.0702	0.200	mg/l	110	109	90-112	1	20
Iron	0.0522 U	0.0522	0.200	mg/l	111	108	90-112	3	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	101	100	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	106	103	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	98	96	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	98	97	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	104	102	90-110	2	20
Tin	0.0098 U	0.0098	0.0200	mg/l	102	99	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	104	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	103	102	80-120	1	20
Batch number: 111385713002	Sample number(s): 6288935								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	103	103	80-120	1	20
Batch number: 111386050002A	Sample number(s): 6288935								
Antimony	0.00030 U	0.00030	0.0010	mg/l	101	95	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	102	105	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	107	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	96	100	87-113	4	20
Copper	0.00038 U	0.00038	0.0020	mg/l	97	101	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	101	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	108	90-113	5	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	105	90-115	5	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	107	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	105	89-116	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	95	104	90-116	10	20
Batch number: 111386050002B	Sample number(s): 6288935								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	107	85-114	3	20
Batch number: 111386050002C	Sample number(s): 6288935								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	103	89-115	6	20
Batch number: 111386050002D	Sample number(s): 6288935								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11137196401A	Sample number(s): 6288935									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	102	103	90-110	1	20
Batch number: 11139196902B	Sample number(s): 6288935									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	96	96	90-110	0	20
Batch number: 11140243201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11141621201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11141621202B	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	90		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11144102201A	Sample number(s): 6288934,6288938-6288941									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11154621701A	Sample number(s): 6288935									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11137020001A	Sample number(s): 6288935									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11139039402A	Sample number(s): 6288929,6288932-6288934,6288936-6288937									
18a pH by 9045C						100		95-105		
Batch number: 11139039402B	Sample number(s): 6288938-6288941									
18a pH by 9045C						100		95-105		
Batch number: 11139182102A	Sample number(s): 6288929,6288932-6288934,6288936-6288937									
32a OR Potential						98		98-102		
Batch number: 11139182102B	Sample number(s): 6288938-6288941									
32a OR Potential						98		98-102		
Batch number: 11144162401A	Sample number(s): 6288929-6288933,6288936-6288937									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11158162401B	Sample number(s): 6288938									
Moisture Content by 160.3						100		80-120		
Batch number: 11160162401A	Sample number(s): 6288934,6288939-6288941									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: B111401AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941 UNSPK: 6288929								
Acetone	118	110	15-210	9	30				
Benzene	113	110	55-143	4	30				
Bromobenzene	109	108	43-139	2	30				
Bromochloromethane	132	126	60-137	7	30				
Bromodichloromethane	103	101	53-136	4	30				
Bromoform	97	97	38-124	2	30				
Bromomethane	68	65	42-168	8	30				
2-Butanone	110	106	37-163	6	30				
n-Butylbenzene	103	102	30-146	3	30				
sec-Butylbenzene	115	114	33-157	3	30				
tert-Butylbenzene	108	107	41-152	3	30				
Carbon Tetrachloride	122	117	45-153	6	30				
Chlorobenzene	105	104	49-135	4	30				
Chloroethane	65	60	39-152	10	30				
2-Chloroethyl Vinyl Ether	85	86	32-139	1	30				
Chloroform	110	107	61-142	5	30				
Chloromethane	79	79	51-163	2	30				
2-Chlorotoluene	107	104	42-146	5	30				
4-Chlorotoluene	102	100	39-145	4	30				
Chlorotrifluoroethene	81	81	70-130	23	30				
1,2-Dibromo-3-chloropropane	79	82	30-139	2	30				
Dibromochloromethane	103	100	51-128	5	30				
1,2-Dibromoethane	95	95	54-129	2	30				
Dibromomethane	96	96	57-130	3	30				
1,2-Dichlorobenzene	98	98	36-133	2	30				
1,3-Dichlorobenzene	104	103	34-134	3	30				
1,4-Dichlorobenzene	100	101	35-136	2	30				
Dichlorodifluoromethane	79	79	26-151	2	30				
1,1-Dichloroethane	114	111	63-142	5	30				
1,2-Dichloroethane	101	100	68-131	3	30				
1,1-Dichloroethene	92	86	61-149	9	30				
cis-1,2-Dichloroethene	107	106	60-136	4	30				
trans-1,2-Dichloroethene	112	108	59-142	6	30				
1,2-Dichloropropane	109	107	62-135	4	30				
1,3-Dichloropropane	97	97	58-129	3	30				
2,2-Dichloropropane	106	102	53-147	7	30				
1,1-Dichloropropene	116	112	54-145	6	30				
cis-1,3-Dichloropropene	98	98	51-131	2	30				
trans-1,3-Dichloropropene	89	90	49-129	1	30				
Ethylbenzene	104	103	44-141	4	30				
Freon 113	101	96	56-156	7	30				
Freon 133a	85	85	61-131	23	30				
Hexachlorobutadiene	109	112	10-155	0	30				
2-Hexanone	98	97	32-160	3	30				
Isopropylbenzene	109	106	38-144	5	30				
p-Isopropyltoluene	110	109	29-152	3	30				
Methyl Tertiary Butyl Ether	88	87	55-129	3	30				
4-Methyl-2-pentanone	83	86	46-139	1	30				
Methylene Chloride	82	79	61-141	5	30				
n-Propylbenzene	113	111	39-157	4	30				
Styrene	97	95	35-134	5	30				
1,1,1,2-Tetrachloroethane	107	104	52-130	4	30				
1,1,2,2-Tetrachloroethane	91	92	40-152	2	30				
Tetrachloroethene	126	122	42-149	6	30				
Toluene	109	106	50-146	5	30				
1,2,3-Trichlorobenzene	84	89	10-140	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	80	85	10-136	5	30				
1,1,1-Trichloroethane	113	110	64-142	5	30				
1,1,2-Trichloroethane	98	97	54-139	3	30				
Trichloroethene	109	106	53-144	5	30				
Trichlorofluoromethane	89	85	47-163	7	30				
1,2,3-Trichloropropane	95	96	45-154	1	30				
1,2,4-Trimethylbenzene	105	103	37-149	4	30				
1,3,5-Trimethylbenzene	108	107	38-150	4	30				
Vinyl Chloride	79	80	50-154	2	30				
m+p-Xylene	106	103	44-137	5	30				
o-Xylene	101	99	42-137	4	30				
Batch number: E111381AA	Sample number(s): 6288929-6288931,6288933-6288934,6288936,6288938-6288941 UNSPK: 6288929								
1,4-Dioxane	90	89	70-130	1	30				
Batch number: 11139SLG026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288939,6288941 UNSPK: 6288929								
Acenaphthene	93	92	63-105	2	30				
Acenaphthylene	90	86	67-114	4	30				
Anthracene	94	94	60-122	0	30				
Benzo(a)anthracene	100	103	59-128	3	30				
Benzo(a)pyrene	99	103	45-138	4	30				
Benzo(b)fluoranthene	111	111	43-155	1	30				
Benzo(g,h,i)perylene	110	113	33-141	3	30				
Benzo(k)fluoranthene	101	103	42-144	1	30				
Butylbenzylphthalate	112	115	57-173	3	30				
Di-n-butylphthalate	107	110	65-148	2	30				
Chrysene	99	104	48-134	6	30				
Dibenz(a,h)anthracene	111	113	22-133	2	30				
Diethylphthalate	101	96	70-136	5	30				
Dimethylphthalate	99	96	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	132	136	39-167	3	30				
Fluoranthene	103	107	26-166	4	30				
Fluorene	99	96	66-122	3	30				
Indeno(1,2,3-cd)pyrene	110	112	21-143	2	30				
1-Methylnaphthalene	98	92	72-123	6	30				
2-Methylnaphthalene	87	82	64-103	6	30				
Naphthalene	97	85	61-102	12	30				
N-Nitrosodimethylamine	87	79	48-113	11	30				
Di-n-octylphthalate	124	123	40-192	0	30				
Phenanthrene	93	96	12-165	3	30				
Pyrene	97	99	15-153	2	30				
Batch number: 11139SLH026	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941 UNSPK: 6288929								
Acenaphthene	94	97	75-115	3	30				
Acenaphthylene	97	99	81-110	2	30				
Aniline	83	76	35-95	9	30				
Anthracene	95	97	75-115	2	30				
Benzidine	32*	22*	35-141	36*	30				
Benzo(a)anthracene	96	98	65-122	1	30				
Benzo(a)pyrene	92	96	57-126	4	30				
Benzo(b)fluoranthene	95	97	59-125	2	30				

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Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	83	90	59-127	8	30				
Benzo(k)fluoranthene	94	95	56-132	2	30				
Benzoic acid	62	52	10-173	18	30				
Benzyl alcohol	95	93	67-115	3	30				
4-Bromophenyl-phenylether	93	98	67-129	6	30				
Butylbenzylphthalate	95	96	73-134	1	30				
Di-n-butylphthalate	90	91	67-123	0	30				
Carbazole	93	95	64-120	2	30				
4-Chloro-3-methylphenol	94	91	76-110	3	30				
4-Chloroaniline	73	67	23-95	8	30				
bis(2-Chloroethoxy)methane	95	93	75-104	3	30				
bis(2-Chloroethyl)ether	93	91	60-116	2	30				
bis(2-Chloroisopropyl)ether	90	85	55-142	5	30				
2-Chloronaphthalene	89	90	50-141	2	30				
2-Chlorophenol	96	94	73-121	2	30				
4-Chlorophenyl-phenylether	93	98	80-109	5	30				
Chrysene	91	96	62-128	5	30				
Dibenz(a,h)anthracene	87	91	65-125	4	30				
Dibenzofuran	96	98	71-112	2	30				
1,2-Dichlorobenzene	86	82	66-108	5	30				
1,3-Dichlorobenzene	84	77	63-109	8	30				
1,4-Dichlorobenzene	85	79	70-100	8	30				
3,3'-Dichlorobenzidine	68	63	16-119	8	30				
2,4-Dichlorophenol	98	97	78-117	0	30				
Diethylphthalate	91	92	66-118	1	30				
2,4-Dimethylphenol	94	91	78-110	3	30				
3,5-Dimethylphenol	103	102	70-130	1	30				
Dimethylphthalate	94	95	64-118	1	30				
4,6-Dinitro-2-methylphenol	56	39	24-116	35*	30				
2,4-Dinitrophenol	29	18*	20-143	48*	30				
2,4-Dinitrotoluene	98	96	73-113	2	30				
2,6-Dinitrotoluene	96	97	69-123	0	30				
1,2-Diphenylhydrazine	98	100	71-129	2	30				
bis(2-Ethylhexyl)phthalate	90	91	63-122	1	30				
Fluoranthene	94	96	73-112	2	30				
Fluorene	93	95	77-111	2	30				
Hexachlorobenzene	95	94	77-114	2	30				
Hexachlorobutadiene	86	84	62-120	2	30				
Hexachlorocyclopentadiene	87	88	10-153	1	30				
Hexachloroethane	79	73	57-109	8	30				
Indeno(1,2,3-cd)pyrene	83	89	61-126	7	30				
Isophorone	94	92	73-102	2	30				
1-Methylnaphthalene	93	91	73-112	3	30				
2-Methylnaphthalene	87	87	76-114	0	30				
2-Methylphenol	94	92	75-111	2	30				
4-Methylphenol	100	97	71-111	3	30				
Naphthalene	89	88	72-116	2	30				
2-Nitroaniline	98	99	67-125	1	30				
3-Nitroaniline	93	94	59-122	1	30				
4-Nitroaniline	81	78	52-112	4	30				
Nitrobenzene	93	91	72-106	3	30				
2-Nitrophenol	93	93	74-115	0	30				
4-Nitrophenol	83	83	54-113	0	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitroso-di-n-propylamine	87	86	60-116	1	30				
N-Nitrosodimethylamine	95	88	47-116	8	30				
N-Nitrosodiphenylamine	97	97	86-145	0	30				
Di-n-octylphthalate	98	100	56-126	1	30				
Pentachlorophenol	69	60	28-127	15	30				
Phenanthrene	94	97	65-125	3	30				
Phenol	97	95	58-126	2	30				
Pyrene	103	105	74-126	2	30				
1,2,4-Trichlorobenzene	92	89	72-115	4	30				
2,4,5-Trichlorophenol	94	94	78-109	1	30				
2,4,6-Trichlorophenol	96	98	77-115	2	30				
Batch number: 11143SLE026	Sample number(s): 6288940 UNSPK: P293457								
Acenaphthene	92	92	63-105	0	30				
Acenaphthylene	91	99	67-114	8	30				
Anthracene	103	102	60-122	1	30				
Benzo(a)anthracene	108	103	59-128	5	30				
Benzo(a)pyrene	111	105	45-138	5	30				
Benzo(b)fluoranthene	117	112	43-155	4	30				
Benzo(g,h,i)perylene	60	55	33-141	9	30				
Benzo(k)fluoranthene	115	112	42-144	2	30				
Butylbenzylphthalate	106	947*	57-173	160*	30				
Di-n-butylphthalate	93	91	65-148	2	30				
Chrysene	101	95	48-134	5	30				
Dibenz(a,h)anthracene	76	71	22-133	6	30				
Diethylphthalate	95	94	70-136	2	30				
Dimethylphthalate	93	101	74-118	9	30				
Bis(2-Ethylhexyl)phthalate	127	101	39-167	19	30				
Fluoranthene	125	122	26-166	2	30				
Fluorene	95	99	66-122	4	30				
Indeno(1,2,3-cd)pyrene	74	68	21-143	8	30				
1-Methylnaphthalene	93	95	72-123	3	30				
2-Methylnaphthalene	84	86	64-103	2	30				
Naphthalene	90	86	61-102	4	30				
N-Nitrosodimethylamine	94	88	48-113	6	30				
Di-n-octylphthalate	104	119	40-192	11	30				
Phenanthrene	96	94	12-165	2	30				
Pyrene	89	85	15-153	5	30				
Batch number: 11146SLE026	Sample number(s): 6288934,6288938-6288941 UNSPK: P296047								
N-Nitrosodimethylamine	24*	24*	70-130	1	30				
Batch number: 111430006A	Sample number(s): 6288938 UNSPK: P291999								
4-Amino-2,6-Dinitrotoluene	95	104	80-127	10	50				
2-Amino-4,6-Dinitrotoluene	97	106	80-137	11	50				
1,3-Dinitrobenzene	104	111	38-166	9	50				
2,4-Dinitrotoluene	93	102	80-131	11	50				
2,6-Dinitrotoluene	93	99	80-127	9	50				
HMX	83	91	63-128	12	50				
Nitrobenzene	115	125	80-125	10	50				
Nitroglycerin	92	99	80-120	10	50				
2-Nitrotoluene	94	101	80-122	9	50				
3-Nitrotoluene	97	104	72-119	9	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrotoluene	93	100	80-125	9	50				
PETN	109	118	80-121	10	50				
RDX	80	90	75-129	13	50				
Tetryl	60	69	55-174	15	50				
1,3,5-Trinitrobenzene	90	101	82-126	13	50				
2,4,6-Trinitrotoluene	91	100	82-130	11	50				
Batch number: 111450004A	Sample number(s): 6288934,6288939-6288941 UNSPK: P290754								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	113	113	80-137	0	50				
1,3-Dinitrobenzene	117	117	38-166	0	50				
2,4-Dinitrotoluene	107	107	80-131	0	50				
2,6-Dinitrotoluene	106	106	80-127	0	50				
HMX	99	99	63-128	0	50				
Nitrobenzene	128*	128*	80-125	0	50				
Nitroglycerin	106	106	80-120	0	50				
2-Nitrotoluene	105	105	80-122	1	50				
3-Nitrotoluene	107	107	72-119	0	50				
4-Nitrotoluene	104	104	80-125	0	50				
PETN	126*	125*	80-121	1	50				
RDX	96	97	75-129	1	50				
Tetryl	74	73	55-174	0	50				
1,3,5-Trinitrobenzene	107	106	82-126	0	50				
2,4,6-Trinitrotoluene	108	107	82-130	0	50				
Batch number: 111400002A	Sample number(s): 6288934,6288938-6288941 UNSPK: P291999								
25a Formaldehyde 8315A	90	89	80-120	1	50				
Batch number: 111390003A	Sample number(s): 6288938 UNSPK: P285036								
6a Perchlorate EPA 6850	100	102	80-120	2	20				
Batch number: 111380023A	Sample number(s): 6288929-6288931,6288933-6288934,6288936-6288941 UNSPK: 6288929								
PCB-1016	96	98	29-146	2	50				
PCB-1260	113	114	39-149	0	50				
Batch number: 111380034A	Sample number(s): 6288934,6288938-6288941 UNSPK: P281100								
EFH (C12-C14)	70	73	49-123	3	20				
EFH (C15-C20)	86	90	49-123	3	20				
EFH (C21-C30)	101	104	49-123	2	20				
EFH (C30 - C40)	64	71	49-123	7	20				
EFH (C8-C11)	70	67	49-123	5	20				
Batch number: 111370018A	Sample number(s): 6288934,6288938-6288941 UNSPK: 6288934								
Diethylene glycol	40*	44*	59-109	9	20				
Ethylene glycol	71	80	63-107	12	20				
Propylene glycol	78	87	63-107	11	20				
Batch number: 111390030A	Sample number(s): 6288934,6288938-6288941 UNSPK: P291999								
Ethanol	42*	33*	48-130	24*	20				
Isopropanol	66	64	12-149	3	20				
Methanol	55	52	43-138	5	20				
Batch number: 111390019A	Sample number(s): 6288934,6288939-6288941 UNSPK: 6288934								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
m-Terphenyl	0*	0*	75-125	0	20				
o-Terphenyl	96	100	75-125	4	20				
p-Terphenyl	0*	92	75-125	200*	20				
Batch number: 111460029A	Sample number(s): 6288938 UNSPK: P294833								
m-Terphenyl	84	84	75-125	1	20				
o-Terphenyl	99	100	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 111371026001A	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Antimony	64*	68*	75-125	7	20	0.274	0.210	27* (1)	20
Arsenic	208 (2)	216 (2)	75-125	2	20	7.95	7.53	5	20
Beryllium	129*	141*	75-125	6	20	0.974	0.865	12	20
Cadmium	119	124	75-125	7	20	0.0810 J	0.0385 U	200* (1)	20
Chromium	170*	145*	75-125	5	20	24.9	22.5	10	20
Cobalt	127*	118	75-125	4	20	8.09	5.56	37*	20
Copper	122	117	75-125	1	20	9.75	6.87	35*	20
Lead	171*	174*	75-125	2	20	7.52	6.82	10	20
Nickel	148*	142*	75-125	0	20	16.6	13.6	20	20
Silver	124	119	75-125	1	20	0.731	0.163	127* (1)	20
Thallium	118	125	75-125	6	20	0.259	0.208	22* (1)	20
Vanadium	220 (2)	210 (2)	75-125	1	20	48.3	44.2	9	20
Zinc	42 (2)	34 (2)	75-125	1	20	46.0	37.9	19	20
Batch number: 111371026001B	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Selenium	117	113	75-125	1	20	0.217 J	0.203 J	7 (1)	20
Batch number: 111371026001C	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Molybdenum	137*	130*	75-125	2	20	1.32	1.50	13	20
Batch number: 111371026001D	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Barium	248 (2)	282 (2)	75-125	3	20	105	85.3	21*	20
Batch number: 111375708002	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Aluminum	3976 (2)	3125 (2)	75-125	4	20	29,600	31,000	4	20
Boron	95	96	84-115	4	20	7.21	7.60	5 (1)	20
Calcium	104 (2)	115 (2)	75-125	2	20	2,680	2,590	4	20
Iron	2168 (2)	1389 (2)	75-125	3	20	24,700	24,500	1	20
Lithium	104	102	82-114	1	20	28.2	27.6	2	20
Magnesium	243 (2)	209 (2)	75-125	1	20	5,030	4,790	5	20
Manganese	147 (2)	144 (2)	75-125	0	20	221	172	25*	20
Phosphorus	96	87	75-125	2	20	283	255	10	20
Potassium	109	101	75-125	2	20	1,590	1,250	24*	20
Sodium	100	100	75-125	2	20	98.7	95.6 J	3 (1)	20
Strontium	102	101	75-115	1	20	20.1	19.9	1	20
Tin	86	88	80-110	5	20	2.98 J	2.88 J	4 (1)	20
Titanium	249 (2)	243 (2)	75-125	0	20	1,270	1,200	6	20
Zirconium	94	94	75-125	3	20	4.60 J	4.94	7 (1)	20
Batch number: 111375711002	Sample number(s): 6288929-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
Mercury	96	103	65-135	11	20	0.0028 U	0.0044 J	200* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11140243201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
3a Cr VI by EPA 7199	91		75-125			0.51 J	0.57 J	10 (1)	20
Batch number: 11141621201A	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
7a Perchlorate EPA 314.0	89		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11141621202B	Sample number(s): 6288929-6288930,6288932-6288934,6288936-6288941 UNSPK: 6288929 BKG: 6288929								
11a Anions by 300.0 - Fluoride	34*		80-120			0.80 U	0.80 U	0 (1)	20
11a Anions by 300.0 - Nitrate	112		80-120			2.3	2.3	2 (1)	20
Batch number: 11144102201A	Sample number(s): 6288934,6288938-6288941 UNSPK: P286418 BKG: P286418								
17a Cyanide by 9012B	98		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11139039402A	Sample number(s): 6288929,6288932-6288934,6288936-6288937 BKG: 6288929								
18a pH by 9045C						6.53	6.48	1	3
Batch number: 11139039402B	Sample number(s): 6288938-6288941 BKG: 6288941								
18a pH by 9045C						7.97	8.08	1	3
Batch number: 11139182102A	Sample number(s): 6288929,6288932-6288934,6288936-6288937 BKG: 6288929								
32a OR Potential						389	400	3	6
Batch number: 11139182102B	Sample number(s): 6288938-6288941 BKG: 6288941								
32a OR Potential						369	372	1	6
Batch number: 11144162401A	Sample number(s): 6288929-6288933,6288936-6288937 BKG: 6288929								
28a Moisture Content by 160.3						12.2	12.0	1	20
Moisture Content by 160.3						12.2	12.0	1	20
Moisture Content by 160.3						12.2	12.0	1	20
Batch number: 11158162401B	Sample number(s): 6288938 BKG: P300341								
Moisture Content by 160.3						15.9	15.4	3	20
Batch number: 11160162401A	Sample number(s): 6288934,6288939-6288941 BKG: 6288941								
Moisture Content by 160.3						11.8	12.4	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6288929	105	107	102	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

6288930	102	104	105	96
6288931	102	103	104	96
6288933	104	108	98	92
6288934	104	103	100	94
6288936	105	109	98	92
6288938	105	103	103	86
6288939	105	105	103	90
6288940	103	102	102	87
6288941	104	103	101	90
Blank	103	103	100	91
LCS	104	109	103	98
MS	102	104	105	96
MSD	102	103	104	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111371AA

	Toluene-d8
6288935	100
6288942	100
Blank	100
LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111381AA

	Toluene-d8
6288929	98
6288930	99
6288931	98
6288933	99
6288934	99
6288936	98
6288938	98
6288939	98
6288940	98
6288941	98
Blank	99
LCS	99
LCSD	99
MS	99
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111372AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6288935	100	102	101	98
6288942	100	100	99	98
Blank	99	101	101	99

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

LCS	102	99	102	101
LCSD	103	100	102	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11138WAD026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288935	55	33	107	85	84	74
Blank	54	32	105	86	86	73
LCS	47	29	99	81	81	73
LCSD	56	36	103	83	84	76
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11138WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288935	96	101	110
Blank	106	114	122
LCS	109	104	109
LCSD	105	101	105
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11139SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288929	106	99	103
6288930	110	95	100
6288931	103	95	106
6288933	105	98	103
6288934	104	98	101
6288936	102	98	107
6288937	95	92	100
6288938	111	100	106
6288939	105	96	97
6288941	107	98	95
Blank	101	103	106
LCS	121	104	105
MS	110	95	100
MSD	103	95	106
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11139SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288929	75	77	73	75	77	76
6288930	96	96	88	89	91	89
6288931	96	96	91	88	93	94
6288933	86	89	80	83	83	85
6288934	89	92	80	84	86	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

6288936	90	91	77	84	87	90
6288937	89	90	79	83	84	90
6288938	88	90	76	83	83	85
6288939	88	88	75	79	84	90
6288940	88	89	71	81	82	88
6288941	90	88	67	81	85	89
Blank	86	91	81	84	87	80
LCS	95	95	84	89	90	89
MS	96	96	88	89	91	89
MSD	96	96	91	88	93	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11143SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6288940	106	93	88
Blank	121	106	112
LCS	104	96	98
MS	107	90	95
MSD	102	95	91
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLE026

	N-Nitrosodimethylamine-d6
6288934	79
6288938	104
6288939	93
6288940	93
6288941	86
Blank	91
LCS	104
MS	164*
MSD	143
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11139A34A

	Trifluorotoluene-F
6288934	80
6288938	76
6288939	77
6288940	68
6288941	72
Blank	81
LCS	88
LCSD	86
Limits:	61-122

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11143A20A

	Trifluorotoluene-F
6288942	72
Blank	72
LCS	119
LCSD	113
Limits:	63-135

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111380016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6288935	121	96
Blank	118	64
LCS	89	57
LCSD	113	81
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111380023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6288929	99	97
6288930	99	107
6288931	103	105
6288933	130	128*
6288934	132	113
6288936	119	118
6288937	113	111
6288938	104	113
6288939	108	103
6288940	117	112
6288941	98	96
Blank	118	118
LCS	120	115
LCSD	112	117
MS	99	107
MSD	103	105
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111400002A

	Butyraldehyde
6288934	126
6288938	122
6288939	125
6288940	129*
6288941	126
Blank	125
LCS	119
MS	112

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

MSD	116
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111430006A

	2-Nitro-m-xylene
6288938	122
Blank	114
LCS	121
LCSD	114
MS	101
MSD	99
Limits:	80-146

Analysis Name: 16a Energetics by 8330A
Batch number: 111450004A

	2-Nitro-m-xylene
6288934	127
6288939	123
6288940	121
6288941	131
Blank	136
LCS	123
LCSD	32*
MS	115
MSD	116
Limits:	80-146

Analysis Name: 21a Glycols by 8015B
Batch number: 111370018A

	Tetramethylene glycol
6288934	88
6288938	89
6288939	90
6288940	88
6288941	89
Blank	90
LCS	99
MS	91
MSD	93
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111380034A

	Chlorobenzene	Orthoterphenyl
6288934	69	79
6288938	67	75
6288939	59	64
6288940	70	76

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247140
Reported: 06/21/11 at 01:43 PM

Surrogate Quality Control

6288941	67	77
Blank	73	78
LCS	81	83
MS	66	75
MSD	67	76
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111390019A

n-Triacontane-d62

6288934	92
6288939	86
6288940	90
6288941	85
Blank	90
LCS	90
MS	84
MSD	93
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111390030A

Acetone

6288934	74
6288938	69
6288939	73
6288940	69
6288941	71
Blank	84
LCS	83
MS	77
MSD	77
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111460029A

n-Triacontane-d62

6288938	91
Blank	88
LCS	86
MS	92
MSD	98
Limits:	50-150

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

13013 1247140 6288929-42

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers' Signature: Tina Pham for Tina Pham

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-042-SA5A-SB-4.0MS	5.16.11	1125	SOIL	NONE	12-Encores										X	X											
SL-042-SA5A-SB-3.5-4.5MS	5.16.11	1130	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X														
DUP-17-SA5A-QC-051611	5.16.11	1135	SOIL	NONE	4-Encores										X	X											
DUP-17-SA5A-QC-051611	5.16.11	1137	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-167-SA5A-SB-1.5	5.16.11	1620	SOIL	NONE	5-Encores										X	X	X										
SL-167-SA5A-SB-1.0-2.0	5.16.11	1617	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	5-1 L ambers			X	X	X																	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HNO3	1-500 mL poly	X																					
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X														
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HCl	6-40 mL vials										X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Tina Pham	05/16/2011 / 1700	Barry Herb 5/17/11 940	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1441 7766; 8695 1441 7777 8695 1441 7788	

13013 1247140 6288929-42

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA5DN-SB-4.5	05.16.11	1545	SOIL	NONE	5-Encores										X	X										
SL-002-SA5DN-SB-4.0-5.0	05.16.11	1548	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-002-SA5DN-SB-9.0-10.0	05.16.11	1552	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-003-SA5DN-SB-1.0	05.16.11	1040	SOIL	NONE	5-Encores										X	X	X									
SL-003-SA5DN-SB-0.5-1.5	05.16.11	1043	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
SL-003-SA5DN-SB-8.5	05.16.11	1047	SOIL	NONE	5-Encores										X	X	X									
SL-003-SA5DN-SB-8.0-9.0	05.16.11	1050	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-004-SA5DN-SB-4.0	05.16.11	1235	SOIL	NONE	5-Encores										X	X	X									
SL-004-SA5DN-SB-3.5-4.5	05.16.11	1239	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
SL-004-SA5DN-SB-9.5	05.16.11	1243	SOIL	NONE	5-Encores										X	X	X									
SL-004-SA5DN-SB-9.0-10.0	05.16.11	1247	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X
TB-051611	05.16.11	1630	WATER	HCl	4-40 mL VOA VIALS										X	X	X									TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/16/2011 / 1700	5/17/11 940	Lancaster Laboratories, Inc.
Received by:	Date/Time	Airbill No.(s)	
		8695 1441 7766; 8695 1441 7777 8695 1441 7788	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/17/2011
Group Number: 1247142
SDG: DX081
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-042-SA5A-SB-3.5-4.5 Soil	6288954
SL-042-SA5A-SB-3.5-4.5MS Soil	6288955
SL-042-SA5A-SB-3.5-4.5MSD Soil	6288956
DUP-17-SA5A-QC-051611 Soil	6288957
SL-167-SA5A-SB-1.0-2.0 Soil	6288958
EB15-SA5A-SB-051611 Water	6288959
SL-002-SA5DN-SB-4.0-5.0 Soil	6288960
SL-002-SA5DN-SB-9.0-10.0 Soil	6288961
SL-003-SA5DN-SB-0.5-1.5 Soil	6288962
SL-003-SA5DN-SB-8.0-9.0 Soil	6288963
SL-004-SA5DN-SB-3.5-4.5 Soil	6288964
SL-004-SA5DN-SB-9.0-10.0 Soil	6288965

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	12.6	B	0.0543	5.45	1
11031	1234678-HpCDF	67562-39-4	2.06	JB	0.0221	5.45	1
11031	1234789-HpCDF	55673-89-7	0.371	JB	0.0364	5.45	1
11031	123478-HxCDD	39227-28-6	0.178	JB	0.0546	5.45	1
11031	123478-HxCDF	70648-26-9	0.215	JB	0.0417	5.45	1
11031	123678-HxCDD	57653-85-7	0.579	JB	0.0550	5.45	1
11031	123678-HxCDF	57117-44-9	0.196	JB	0.0356	5.45	1
11031	123789-HxCDD	19408-74-3	0.260	JB	0.0469	5.45	1
11031	123789-HxCDF	72918-21-9	0.157	JB	0.0388	5.45	1
11031	12378-PeCDD	40321-76-4	0.101	JBQ	0.0352	5.45	1
11031	12378-PeCDF	57117-41-6	0.0835	JBQ	0.0171	5.45	1
11031	234678-HxCDF	60851-34-5	0.292	JB	0.0313	5.45	1
11031	23478-PeCDF	57117-31-4	0.111	JB	0.0189	5.45	1
11031	2378-TCDD	1746-01-6	0.0210	U	0.0210	1.09	1
11031	2378-TCDF	51207-31-9	0.0432	J	0.0260	1.09	1
11031	OCDD	3268-87-9	150	B	0.0451	10.9	1
11031	OCDF	39001-02-0	4.68	JB	0.0519	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288954
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 14:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	120	B	0.0797	5.59	1
11031	1234678-HpCDF	67562-39-4	104	B	0.0510	5.59	1
11031	1234789-HpCDF	55673-89-7	105	B	0.0850	5.59	1
11031	123478-HxCDD	39227-28-6	105	B	0.0672	5.59	1
11031	123478-HxCDF	70648-26-9	104	B	0.0880	5.59	1
11031	123678-HxCDD	57653-85-7	103	B	0.0680	5.59	1
11031	123678-HxCDF	57117-44-9	102	B	0.0726	5.59	1
11031	123789-HxCDD	19408-74-3	105	B	0.0651	5.59	1
11031	123789-HxCDF	72918-21-9	104	B	0.0859	5.59	1
11031	12378-PeCDD	40321-76-4	108	B	0.0610	5.59	1
11031	12378-PeCDF	57117-41-6	102	B	0.0377	5.59	1
11031	234678-HxCDF	60851-34-5	105	B	0.0714	5.59	1
11031	23478-PeCDF	57117-31-4	101	B	0.0377	5.59	1
11031	2378-TCDD	1746-01-6	21.7	B	0.0338	1.12	1
11031	2378-TCDF	51207-31-9	22.2		0.0542	1.12	1
11031	OCDD	3268-87-9	369	B	0.0718	11.2	1
11031	OCDF	39001-02-0	218	B	0.0771	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5A-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288955
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 15:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	178	B	0.109	5.64	1
11031	1234678-HpCDF	67562-39-4	114	B	0.0589	5.64	1
11031	1234789-HpCDF	55673-89-7	108	B	0.101	5.64	1
11031	123478-HxCDD	39227-28-6	108	B	0.0874	5.64	1
11031	123478-HxCDF	70648-26-9	106	B	0.112	5.64	1
11031	123678-HxCDD	57653-85-7	109	B	0.0899	5.64	1
11031	123678-HxCDF	57117-44-9	104	B	0.0960	5.64	1
11031	123789-HxCDD	19408-74-3	108	B	0.0880	5.64	1
11031	123789-HxCDF	72918-21-9	103	B	0.128	5.64	1
11031	12378-PeCDD	40321-76-4	108	B	0.0798	5.64	1
11031	12378-PeCDF	57117-41-6	104	B	0.0458	5.64	1
11031	234678-HxCDF	60851-34-5	108	B	0.0993	5.64	1
11031	23478-PeCDF	57117-31-4	103	B	0.0459	5.64	1
11031	2378-TCDD	1746-01-6	21.5	B	0.0427	1.13	1
11031	2378-TCDF	51207-31-9	21.9		0.0811	1.13	1
11031	OCDD	3268-87-9	924	B	0.0970	11.3	1
11031	OCDF	39001-02-0	242	B	0.0812	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-042-SA5A-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5A-SB-3.5-4.5

LLI Sample # SW 6288956
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD042 SDG#: DX081-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 15:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	1234678-HpCDD	35822-46-9	24.2	B	0.0586	5.54	1
11031	1234678-HpCDF	67562-39-4	4.92	JB	0.0194	5.54	1
11031	1234789-HpCDF	55673-89-7	1.11	JB	0.0365	5.54	1
11031	123478-HxCDD	39227-28-6	0.421	JB	0.0468	5.54	1
11031	123478-HxCDF	70648-26-9	0.543	JB	0.0400	5.54	1
11031	123678-HxCDD	57653-85-7	1.42	JB	0.0493	5.54	1
11031	123678-HxCDF	57117-44-9	0.512	JB	0.0330	5.54	1
11031	123789-HxCDD	19408-74-3	0.701	JB	0.0487	5.54	1
11031	123789-HxCDF	72918-21-9	0.403	JB	0.0395	5.54	1
11031	12378-PeCDD	40321-76-4	0.307	JBQ	0.0377	5.54	1
11031	12378-PeCDF	57117-41-6	0.253	JB	0.0200	5.54	1
11031	234678-HxCDF	60851-34-5	0.773	JB	0.0325	5.54	1
11031	23478-PeCDF	57117-31-4	0.343	JBQ	0.0202	5.54	1
11031	2378-TCDD	1746-01-6	0.114	JB	0.0232	1.11	1
11031	2378-TCDF	51207-31-9	0.102	J	0.0383	1.11	1
11031	OCDD	3268-87-9	247	B	0.0435	11.1	1
11031	OCDF	39001-02-0	10.9	JB	0.0356	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP-17-SA5A-QC-051611 Soil
SSFL Area IV Collocated Soil Sampling
DUP-17-SA5A-QC-051611

LLI Sample # SW 6288957
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 11:37

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP17 SDG#: DX081-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 16:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	8.84	B	0.0606	5.30	1
11031	1234678-HpCDF	67562-39-4	1.70	JB	0.0227	5.30	1
11031	1234789-HpCDF	55673-89-7	0.172	JBQ	0.0361	5.30	1
11031	123478-HxCDD	39227-28-6	0.0329	U	0.0329	5.30	1
11031	123478-HxCDF	70648-26-9	0.337	JB	0.0314	5.30	1
11031	123678-HxCDD	57653-85-7	0.324	JB	0.0339	5.30	1
11031	123678-HxCDF	57117-44-9	0.128	JB	0.0272	5.30	1
11031	123789-HxCDD	19408-74-3	0.156	JB	0.0312	5.30	1
11031	123789-HxCDF	72918-21-9	0.104	JBQ	0.0311	5.30	1
11031	12378-PeCDD	40321-76-4	0.0568	JBQ	0.0237	5.30	1
11031	12378-PeCDF	57117-41-6	0.0854	JBQ	0.0193	5.30	1
11031	234678-HxCDF	60851-34-5	0.126	JBQ	0.0280	5.30	1
11031	23478-PeCDF	57117-31-4	0.0833	JB	0.0188	5.30	1
11031	2378-TCDD	1746-01-6	0.0278	JBQ	0.0195	1.06	1
11031	2378-TCDF	51207-31-9	0.0288	JQ	0.0250	1.06	1
11031	OCDD	3268-87-9	214	B	0.0489	10.6	1
11031	OCDF	39001-02-0	5.40	JB	0.0342	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-167-SA5A-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-167-SA5A-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA5A-SB-1.0-2.0

LLI Sample # SW 6288958
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 16:17

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD167 SDG#: DX081-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 17:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB15-SA5A-SB-051611 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288959
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB15 SDG#: DX081-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	1234678-HpCDD	35822-46-9	3.17	J	0.640	10.7	1
10915	1234678-HpCDF	67562-39-4	2.21	J	0.288	10.7	1
10915	1234789-HpCDF	55673-89-7	1.01	J	0.346	10.7	1
10915	123478-HxCDD	39227-28-6	0.449	J	0.367	10.7	1
10915	123478-HxCDF	70648-26-9	0.477	J	0.239	10.7	1
10915	123678-HxCDD	57653-85-7	0.644	JQ	0.393	10.7	1
10915	123678-HxCDF	57117-44-9	0.609	J	0.231	10.7	1
10915	123789-HxCDD	19408-74-3	0.749	J	0.372	10.7	1
10915	123789-HxCDF	72918-21-9	0.577	JQ	0.246	10.7	1
10915	12378-PeCDD	40321-76-4	0.430	JQ	0.311	10.7	1
10915	12378-PeCDF	57117-41-6	0.168	J	0.164	10.7	1
10915	234678-HxCDF	60851-34-5	0.879	JQ	0.218	10.7	1
10915	23478-PeCDF	57117-31-4	0.720	J	0.142	10.7	1
10915	2378-TCDD	1746-01-6	0.482	JQ	0.279	2.14	1
10915	2378-TCDF	51207-31-9	0.206	U	0.206	2.14	1
10915	OCDD	3268-87-9	5.95	JQ	0.500	21.4	1
10915	OCDF	39001-02-0	0.932	JQ	0.586	21.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	44	25 - 164
13C12-12378-PeCDD	43	25 - 181
13C12-123478-HxCDD	41	32 - 141
13C12-123678-HxCDD	42	28 - 130
13C12-123789-HxCDD	42	28 - 130
13C12-1234678-HpCDD	40	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	48	24 - 169
13C12-12378-PeCDF	43	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	47	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB15-SA5A-SB-051611 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5A-SB-051611

LLI Sample # WW 6288959
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 14:30

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB15 SDG#: DX081-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11137002	05/20/2011 08:58	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11137002	05/18/2011 07:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	1234678-HpCDD	35822-46-9	0.341 JB	0.0414	5.66	1
11031	1234678-HpCDF	67562-39-4	0.134 JBQ	0.0117	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0634 JBQ	0.0247	5.66	1
11031	123478-HxCDD	39227-28-6	0.0265 U	0.0265	5.66	1
11031	123478-HxCDF	70648-26-9	0.0352 JB	0.0231	5.66	1
11031	123678-HxCDD	57653-85-7	0.133 JB	0.0278	5.66	1
11031	123678-HxCDF	57117-44-9	0.0415 JBQ	0.0189	5.66	1
11031	123789-HxCDD	19408-74-3	0.244 JBQ	0.0281	5.66	1
11031	123789-HxCDF	72918-21-9	0.343 JB	0.0266	5.66	1
11031	12378-PeCDD	40321-76-4	0.0810 JBQ	0.0340	5.66	1
11031	12378-PeCDF	57117-41-6	0.0609 JBQ	0.0176	5.66	1
11031	234678-HxCDF	60851-34-5	0.0924 JBQ	0.0196	5.66	1
11031	23478-PeCDF	57117-31-4	0.0564 JBQ	0.0180	5.66	1
11031	2378-TCDD	1746-01-6	0.0272 U	0.0272	1.13	1
11031	2378-TCDF	51207-31-9	0.0287 U	0.0287	1.13	1
11031	OCDD	3268-87-9	1.53 JB	0.0346	11.3	1
11031	OCDF	39001-02-0	0.315 JBQ	0.0682	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-4.0-5.0

LLI Sample # SW 6288960
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:48

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0024 SDG#: DX081-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 18:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	1234678-HpCDD	35822-46-9	0.280 JB	0.0269	5.55	1
11031	1234678-HpCDF	67562-39-4	0.111 JBQ	0.00826	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0403 JBQ	0.0158	5.55	1
11031	123478-HxCDD	39227-28-6	0.0179 U	0.0179	5.55	1
11031	123478-HxCDF	70648-26-9	0.0526 JB	0.0143	5.55	1
11031	123678-HxCDD	57653-85-7	0.0314 JB	0.0181	5.55	1
11031	123678-HxCDF	57117-44-9	0.0350 JBQ	0.0115	5.55	1
11031	123789-HxCDD	19408-74-3	0.0544 JB	0.0181	5.55	1
11031	123789-HxCDF	72918-21-9	0.0501 JBQ	0.0154	5.55	1
11031	12378-PeCDD	40321-76-4	0.0262 JBQ	0.0206	5.55	1
11031	12378-PeCDF	57117-41-6	0.0124 JBQ	0.0118	5.55	1
11031	234678-HxCDF	60851-34-5	0.0501 JBQ	0.0122	5.55	1
11031	23478-PeCDF	57117-31-4	0.0636 JBQ	0.0119	5.55	1
11031	2378-TCDD	1746-01-6	0.0205 U	0.0205	1.11	1
11031	2378-TCDF	51207-31-9	0.0203 J	0.0192	1.11	1
11031	OCDD	3268-87-9	1.77 JBQ	0.0231	11.1	1
11031	OCDF	39001-02-0	0.263 JBQ	0.0352	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288961
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 15:52

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0029 SDG#: DX081-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 19:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401A	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	1.11	JB	0.0365	5.95	1
11031	1234678-HpCDF	67562-39-4	0.291	JB	0.0120	5.95	1
11031	1234789-HpCDF	55673-89-7	0.126	JB	0.0235	5.95	1
11031	123478-HxCDD	39227-28-6	0.0898	JB	0.0277	5.95	1
11031	123478-HxCDF	70648-26-9	0.179	JBQ	0.0255	5.95	1
11031	123678-HxCDD	57653-85-7	0.615	JB	0.0286	5.95	1
11031	123678-HxCDF	57117-44-9	0.144	JB	0.0210	5.95	1
11031	123789-HxCDD	19408-74-3	0.988	JB	0.0282	5.95	1
11031	123789-HxCDF	72918-21-9	1.09	JB	0.0288	5.95	1
11031	12378-PeCDD	40321-76-4	0.226	JBQ	0.0297	5.95	1
11031	12378-PeCDF	57117-41-6	0.367	JB	0.0185	5.95	1
11031	234678-HxCDF	60851-34-5	0.136	JB	0.0238	5.95	1
11031	23478-PeCDF	57117-31-4	0.241	JBQ	0.0199	5.95	1
11031	2378-TCDD	1746-01-6	0.0227	U	0.0227	1.19	1
11031	2378-TCDF	51207-31-9	0.143	J	0.0409	1.19	1
11031	OCDD	3268-87-9	11.9	B	0.0307	11.9	1
11031	OCDF	39001-02-0	0.704	JBQ	0.0421	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	105	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	100	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA5DN-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: SL-003-SA5DN-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-0.5-1.5

LLI Sample # SW 6288962
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:43

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0030 SDG#: DX081-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/23/2011 20:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.377	JB	0.0275	5.55	1
11031	1234678-HpCDF	67562-39-4	0.194	JB	0.0102	5.55	1
11031	1234789-HpCDF	55673-89-7	0.110	JBQ	0.0159	5.55	1
11031	123478-HxCDD	39227-28-6	0.0831	JB	0.0229	5.55	1
11031	123478-HxCDF	70648-26-9	0.133	JBQ	0.0187	5.55	1
11031	123678-HxCDD	57653-85-7	0.108	JBQ	0.0228	5.55	1
11031	123678-HxCDF	57117-44-9	0.110	JB	0.0166	5.55	1
11031	123789-HxCDD	19408-74-3	0.101	JBQ	0.0227	5.55	1
11031	123789-HxCDF	72918-21-9	0.194	JBQ	0.0179	5.55	1
11031	12378-PeCDD	40321-76-4	0.163	JBQ	0.0236	5.55	1
11031	12378-PeCDF	57117-41-6	0.203	JBQ	0.0124	5.55	1
11031	234678-HxCDF	60851-34-5	0.131	JBQ	0.0162	5.55	1
11031	23478-PeCDF	57117-31-4	0.184	JB	0.0130	5.55	1
11031	2378-TCDD	1746-01-6	0.0860	JB	0.0179	1.11	1
11031	2378-TCDF	51207-31-9	0.0652	JQ	0.0177	1.11	1
11031	OCDD	3268-87-9	1.11	JBQ	0.0255	11.1	1
11031	OCDF	39001-02-0	0.369	JB	0.0409	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA5DN-SB-8.0-9.0

LLI Sample # SW 6288963
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 10:50

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0038 SDG#: DX081-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/24/2011 00:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Analysis Report

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	0.658	JB	0.0316	5.98	1
11031	1234678-HpCDF	67562-39-4	0.205	JB	0.0109	5.98	1
11031	1234789-HpCDF	55673-89-7	0.105	JB	0.0255	5.98	1
11031	123478-HxCDD	39227-28-6	0.0813	JB	0.0219	5.98	1
11031	123478-HxCDF	70648-26-9	0.135	JBQ	0.0237	5.98	1
11031	123678-HxCDD	57653-85-7	0.563	JB	0.0226	5.98	1
11031	123678-HxCDF	57117-44-9	0.125	JB	0.0186	5.98	1
11031	123789-HxCDD	19408-74-3	0.939	JB	0.0224	5.98	1
11031	123789-HxCDF	72918-21-9	1.54	JB	0.0284	5.98	1
11031	12378-PeCDD	40321-76-4	0.218	JBQ	0.0400	5.98	1
11031	12378-PeCDF	57117-41-6	0.437	JBQ	0.0156	5.98	1
11031	234678-HxCDF	60851-34-5	0.124	JB	0.0207	5.98	1
11031	23478-PeCDF	57117-31-4	0.166	JBQ	0.0174	5.98	1
11031	2378-TCDD	1746-01-6	0.0555	JBQ	0.0260	1.20	1
11031	2378-TCDF	51207-31-9	0.0292	U	0.0292	1.20	1
11031	OCDD	3268-87-9	6.06	JB	0.0291	12.0	1
11031	OCDF	39001-02-0	0.373	JBQ	0.0501	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-004-SA5DN-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-3.5-4.5

LLI Sample # SW 6288964
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:39

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0043 SDG#: DX081-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/24/2011 01:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Analysis Report

Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	1234678-HpCDD	35822-46-9	0.211 JB	0.0222	5.60	1
11031	1234678-HpCDF	67562-39-4	0.115 JBQ	0.00816	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0549 JBQ	0.0141	5.60	1
11031	123478-HxCDD	39227-28-6	0.0311 JBQ	0.0164	5.60	1
11031	123478-HxCDF	70648-26-9	0.0860 JBQ	0.0115	5.60	1
11031	123678-HxCDD	57653-85-7	0.0625 JBQ	0.0171	5.60	1
11031	123678-HxCDF	57117-44-9	0.0673 JB	0.0101	5.60	1
11031	123789-HxCDD	19408-74-3	0.0650 JBQ	0.0170	5.60	1
11031	123789-HxCDF	72918-21-9	0.0638 JBQ	0.0138	5.60	1
11031	12378-PeCDD	40321-76-4	0.110 JB	0.0230	5.60	1
11031	12378-PeCDF	57117-41-6	0.0833 JBQ	0.0116	5.60	1
11031	234678-HxCDF	60851-34-5	0.0696 JB	0.0115	5.60	1
11031	23478-PeCDF	57117-31-4	0.0952 JB	0.0119	5.60	1
11031	2378-TCDD	1746-01-6	0.0274 JBQ	0.0172	1.12	1
11031	2378-TCDF	51207-31-9	0.0461 JQ	0.0181	1.12	1
11031	OCDD	3268-87-9	0.602 JB	0.0218	11.2	1
11031	OCDF	39001-02-0	0.212 JB	0.0321	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SB-9.0-10.0

LLI Sample # SW 6288965
LLI Group # 1247142
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 12:47

Submitted: 05/17/2011 09:40
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0049 SDG#: DX081-17*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140001	05/24/2011 02:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11140001	05/20/2011 13:15	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11144162401A	Sample number(s): 6288954-6288957,6288960-6288961								
Moisture Content by 160.3					100		80-120		
Batch number: 11158162401B	Sample number(s): 6288962								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401A	Sample number(s): 6288958,6288963-6288965								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11137002	Sample number(s): 6288959								
2378-TCDD	0.128 J	0.105	2.00	pg/l	83		67-158		
2378-TCDF	0.106 J	0.0908	2.00	pg/l	97		75-158		
12378-PeCDD	0.307 J	0.118	10.0	pg/l	87		70-142		
12378-PeCDF	0.0606 U	0.0606	10.0	pg/l	94		80-134		
23478-PeCDF	0.588 J	0.0553	10.0	pg/l	92		68-160		
123478-HxCDD	0.220 J	0.104	10.0	pg/l	88		70-164		
123678-HxCDD	0.252 J	0.107	10.0	pg/l	88		76-134		
123789-HxCDD	0.381 J	0.103	10.0	pg/l	88		64-162		
123478-HxCDF	0.400 J	0.0767	10.0	pg/l	92		72-134		
123678-HxCDF	0.354 J	0.0743	10.0	pg/l	91		84-130		
123789-HxCDF	0.396 J	0.0781	10.0	pg/l	89		78-130		
234678-HxCDF	0.399 J	0.0725	10.0	pg/l	94		70-156		
1234678-HpCDD	1.77 J	0.168	10.0	pg/l	89		70-140		
1234678-HpCDF	1.41 J	0.0722	10.0	pg/l	89		82-122		
1234789-HpCDF	0.428 J	0.0855	10.0	pg/l	87		78-138		
OCDD	3.80 J	0.197	20.0	pg/l	93		78-144		
OCDF	1.48 J	0.192	20.0	pg/l	93		63-170		
Batch number: 11140001	Sample number(s): 6288954-6288958,6288960-6288965								
2378-TCDD	0.0352 J	0.0244	1.00	ng/kg	96		67-158		
2378-TCDF	0.0234 U	0.0234	1.00	ng/kg	98		75-158		
12378-PeCDD	0.0656 J	0.0264	5.00	ng/kg	96		70-142		
12378-PeCDF	0.0647 J	0.0171	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0777 J	0.0174	5.00	ng/kg	92		68-160		
123478-HxCDD	0.0299 J	0.0190	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0525 J	0.0195	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0535 J	0.0189	5.00	ng/kg	94		64-162		
123478-HxCDF	0.0532 J	0.0160	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0551 J	0.0137	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0750 J	0.0191	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0526 J	0.0148	5.00	ng/kg	95		70-156		
1234678-HpCDD	0.220 J	0.0328	5.00	ng/kg	94		70-140		
1234678-HpCDF	0.126 J	0.0103	5.00	ng/kg	90		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.125	J	0.0196	5.00	ng/kg	94		78-138		
OCDD	0.489	J	0.0326	10.0	ng/kg	94		78-144		
OCDF	0.335	J	0.0459	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11144162401A	Sample number(s): 6288954-6288957,6288960-6288961 BKG: P288929								
Moisture Content by 160.3						12.2	12.0	1	20
Batch number: 11158162401B	Sample number(s): 6288962 BKG: P300341								
Moisture Content by 160.3						15.9	15.4	3	20
Batch number: 11160162401A	Sample number(s): 6288958,6288963-6288965 BKG: P288941								
Moisture Content by 160.3						11.8	12.4	4	20
Batch number: 11140001	Sample number(s): 6288954-6288958,6288960-6288965 UNSPK: 6288954								
2378-TCDD	97	95	67-158	1	25				
2378-TCDF	99	97	75-158	1	25				
12378-PeCDD	96	96	70-142	0	25				
12378-PeCDF	91	92	80-134	2	25				
23478-PeCDF	90	91	68-160	2	25				
123478-HxCDD	94	96	70-164	3	25				
123678-HxCDD	92	96	76-134	6	25				
123789-HxCDD	94	95	64-162	3	25				
123478-HxCDF	93	94	72-134	2	25				
123678-HxCDF	91	92	84-130	2	25				
123789-HxCDF	93	91	78-130	1	25				
234678-HxCDF	94	95	70-156	2	25				
1234678-HpCDD	96	147*	70-140	39*	25				
1234678-HpCDF	91	100	82-122	9	25				
1234789-HpCDF	94	95	78-138	2	25				
OCDD	98	343*	78-144	86*	25				
OCDF	95	105	63-170	10	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11137002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6288959	44	46	44	44	47	46
Blank	90	94	93	95	96	103
OPR	80	84	84	84	88	90

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6288959	42	42	41	71	43	41
Blank	87	86	80	93	90	86
OPR	80	82	78	79	81	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6288959	42	42	40	39	48	43
Blank	86	86	80	75	92	94
OPR	80	81	74	72	82	84
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11140001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6288954	68	63	49	57	62	62
6288955	73	74	60	70	72	71
6288956	70	75	64	73	70	66
6288957	70	78	59	71	69	70
6288958	77	82	62	69	71	73
6288960	67	66	58	70	64	59
6288961	72	75	62	73	66	64
6288962	87	93	75	88	77	76
6288963	83	81	71	77	76	86
6288964	72	77	62	77	67	61
6288965	81	84	71	81	69	67
Blank	76	76	67	77	71	66
MS	73	74	60	70	72	71
MSD	70	75	64	73	70	66
OPR	69	77	54	62	68	73

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6288954	73	57	55	79	69	64
6288955	85	66	64	86	77	77
6288956	88	68	69	83	79	77
6288957	92	65	65	85	85	78
6288958	87	70	71	86	87	75
6288960	88	55	52	84	75	74
6288961	90	61	60	88	85	77
6288962	112	72	72	100	105	91
6288963	88	73	70	90	84	82
6288964	105	58	54	91	88	80
6288965	90	67	65	90	91	76
Blank	93	63	62	96	83	84
MS	85	66	64	86	77	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247142
Reported: 06/10/11 at 09:14 AM

Surrogate Quality Control

MSD	88	68	69	83	79	77
OPR	79	69	71	88	85	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6288954	63	74	73	77	64	71
6288955	79	80	81	84	70	80
6288956	76	77	83	87	69	80
6288957	75	76	84	87	66	85
6288958	76	81	83	89	73	87
6288960	75	74	75	76	62	74
6288961	76	79	81	85	65	83
6288962	90	91	96	99	79	102
6288963	82	84	84	82	80	88
6288964	78	80	87	88	64	90
6288965	78	77	81	82	78	94
Blank	83	84	85	82	68	82
MS	79	80	81	84	70	80
MSD	76	77	83	87	69	80
OPR	72	77	84	89	65	81
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1247142 6288954-65

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signature: Tina Pham for Tina Pham

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-042-SA5A-SB-4.0MS	5.16.11	1125	SOIL	NONE	12-Encores										X	X											
SL-042-SA5A-SB-3.5-4.5MS	5.16.11	1130	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X														
DUP-17-SA5A-QC-051611	5.16.11	1135	SOIL	NONE	4-Encores										X	X											
DUP-17-SA5A-QC-051611	5.16.11	1137	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-167-SA5A-SB-1.5	5.16.11	1620	SOIL	NONE	5-Encores										X	X	X										
SL-167-SA5A-SB-1.0-2.0	5.16.11	1617	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	5-1 L ambers			X	X	X																	
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HNO3	1-500 mL poly	X																					
EB15-SA5A-SB-051611	5.16.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X														
EB15-SA5A-SB-051611	5.16.11	1430	WATER	HCl	6-40 mL vials										X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/16/2011 / 1700	Harry Hurlow 5/17/11 940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1441 7766; 8695 1441 7777 8695 1441 7788	

13013 1247142 6288954-65

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-002-SA5DN-SB-4.5	05.16.11	1545	SOIL	NONE	5-Encores										X	X											
SL-002-SA5DN-SB-4.0-5.0	05.16.11	1548	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-002-SA5DN-SB-9.0-10.0	05.16.11	1552	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-003-SA5DN-SB-1.0	05.16.11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-003-SA5DN-SB-0.5-1.5	05.16.11	1043	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-003-SA5DN-SB-8.5	05.16.11	1047	SOIL	NONE	5-Encores										X	X	X										
SL-003-SA5DN-SB-8.0-9.0	05.16.11	1050	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-004-SA5DN-SB-4.0	05.16.11	1235	SOIL	NONE	5-Encores										X	X	X										
SL-004-SA5DN-SB-3.5-4.5	05.16.11	1239	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-004-SA5DN-SB-9.5	05.16.11	1243	SOIL	NONE	5-Encores										X	X	X										
SL-004-SA5DN-SB-9.0-10.0	05.16.11	1247	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-051611	05.16.11	1630	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 05/16/2011 / 1700

Received by. — Date/Time

Received for Laboratory by: (Signature) Mary Yeh 5/17/11 940

Airbill No.(s)
8695 1441 7766; 8695 1441 7777
8695 1441 7788

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 16, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/18/2011
Group Number: 1247434
SDG: DE152
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-254-SA5A-SS-0.0-0.5 Soil	6290752
DUP-01-SA5DN-QC-051711 Soil	6290753
SL-066-SA5DN-SS-0.0-0.5 Soil	6290754
SL-067-SA5DN-SS-0.0-0.5 Soil	6290755
SL-072-SA5DN-SS-0.0-0.5 Soil	6290756
SL-072-SA5DN-SS-0.0-0.5MS Soil	6290757
SL-072-SA5DN-SS-0.0-0.5MSD Soil	6290758
SL-072-SA5DN-SS-0.0-0.5DUP Soil	6290759
SL-074-SA5DN-SS-0.0-0.5 Soil	6290760
SL-075-SA5DN-SS-0.0-0.5 Soil	6290761
SL-076-SA5DN-SS-0.0-0.5 Soil	6290762
SL-079-SA5DN-SS-0.0-0.5 Soil	6290763
SL-080-SA5DN-SS-0.0-0.5 Soil	6290764
SL-081-SA5DN-SS-0.0-0.5 Soil	6290765
SL-082-SA5DN-SS-0.0-0.5 Soil	6290766
SL-083-SA5DN-SS-0.0-0.5 Soil	6290767
SL-084-SA5DN-SS-0.0-0.5 Soil	6290768
SL-206-SA5DN-SS-0.0-0.5 Soil	6290769
EB01-SA5DN-SS-051711 Water	6290770

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.35	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.8		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.8		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.9	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	3.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.1	18		1
10138	Fluoranthene	206-44-0	4.7		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	1.1	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.1	J	6.1	18		1
10138	Phenanthrene	85-01-8	2.0		0.68	1.7		1
10138	Pyrene	129-00-0	4.3		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	7.1	U	7.1	7.1		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.1	U	2.1	2.1		1
10401	MCPA	94-74-6	880		78	260		1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.33	U	0.33	0.35		1
01363	p,p-DDE	72-55-9	8.4		0.34	1.7		5
01363	p,p-DDT	50-29-3	5.1		0.34	1.7		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.22	U	0.22	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.34	U	0.34	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.13	U	0.13	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.081	U	0.081	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.35		1
01363	Toxaphene	8001-35-2	16	U	16	16		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	14		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.5	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		4.97	19.7		1
07914	Boron	7440-42-8	11.3		0.879	4.94		1
01650	Calcium	7440-70-2	2,320		6.05	19.7		1
01654	Iron	7439-89-6	17,800		4.65	19.7		1
01656	Lithium	7439-93-2	19.4		0.22	2.0		1
01657	Magnesium	7439-95-4	3,980		2.51	9.87		1
06958	Manganese	7439-96-5	253		0.0770	0.494		1
10145	Phosphorus	7723-14-0	400		0.553	9.87		1
01662	Potassium	7440-09-7	3,270		17.8	49.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	63.4	J	36.8	98.7		1
07968	Strontium	7440-24-6	15.3		0.0612	0.494		1
06969	Tin	7440-31-5	2.46	J	0.987	9.87		1
06970	Titanium	7440-32-6	975		0.375	0.987		1
10146	Zirconium	7440-67-7	0.829	U	0.829	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0610	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.27		0.0813	0.407		2
06126	Barium	7440-39-3	87.8		0.110	0.407		2
06127	Beryllium	7440-41-7	0.389		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.253		0.0407	0.102		2
06131	Chromium	7440-47-3	15.8		0.122	0.407		2
06132	Cobalt	7440-48-4	4.76		0.0203	0.102		2
06133	Copper	7440-50-8	7.90		0.0671	0.407		2
06135	Lead	7439-92-1	9.94		0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.430		0.0508	0.102		2
06139	Nickel	7440-02-0	9.97		0.102	0.407		2
06141	Selenium	7782-49-2	0.126	J	0.0407	0.407		2
06142	Silver	7440-22-4	0.0586	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.186		0.0305	0.102		2
06148	Vanadium	7440-62-2	29.7		0.0224	0.102		2
06149	Zinc	7440-66-6	68.4		0.569	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.6		0.50	0.50		1

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Analysis Report

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011 19:51	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011 11:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 00:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 10:17	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 10:32	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 21:34	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:35	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290752
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S2540 SDG#: DE152-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 05:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 16:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/23/2011 23:27	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	51	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	5.6	J	3.7	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	5.9	J	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	27		3.7	9.1		5
10138	Benzo(a)pyrene	50-32-8	33		3.7	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	48		3.7	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	18		3.7	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	15		3.7	9.1		5
10138	Chrysene	218-01-9	46		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	9.7		3.7	9.1		5
10138	Fluoranthene	206-44-0	84		3.7	9.1		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.7	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.1		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.1		5
10138	Di-n-octylphthalate	117-84-0	42	J	33	99		5
10138	Phenanthrene	85-01-8	57		3.7	9.1		5
10138	Pyrene	129-00-0	63		3.7	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	3.0		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	340		84	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.10	J	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.36	U	0.36	0.92		5
01363	Alpha BHC	319-84-6	0.19	U	0.19	0.92		5

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Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.33	U	0.33	0.92		5
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.92		5
01363	Chlordane	57-74-9	4.4	U	4.4	19		5
01363	p,p-DDD	72-54-8	4.2	U	4.2	4.2		5
01363	p,p-DDE	72-55-9	0.51	U	0.51	1.9		5
01363	p,p-DDT	50-29-3	2.4	U	2.4	2.4		5
01363	Delta BHC	319-86-8	0.32	U	0.32	0.92		5
01363	Dieldrin	60-57-1	0.36	U	0.36	1.9		5
01363	Endosulfan I	959-98-8	0.24	U	0.24	0.92		5
01363	Endosulfan II	33213-65-9	0.77	U	0.77	1.9		5
01363	Endosulfan Sulfate	1031-07-8	12	U	12	12		5
01363	Endrin	72-20-8	1.3	U	1.3	1.9		5
01363	Endrin Aldehyde	7421-93-4	0.51	U	0.51	1.9		5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.9		5
01363	Heptachlor	76-44-8	0.33	U	0.33	0.92		5
01363	Heptachlor Epoxide	1024-57-3	0.24	U	0.24	0.92		5
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.2		5
01363	Mirex	2385-85-5	1.7	U	1.7	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	36		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.0		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,200		5.44	21.6		1
07914	Boron	7440-42-8	20.8		0.962	5.40		1
01650	Calcium	7440-70-2	24,400		6.63	21.6		1
01654	Iron	7439-89-6	28,100		5.09	21.6		1
01656	Lithium	7439-93-2	21.9		0.24	2.2		1
01657	Magnesium	7439-95-4	6,200		2.75	10.8		1

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Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	345		0.0843	0.540		1
10145	Phosphorus	7723-14-0	617		0.605	10.8		1
01662	Potassium	7440-09-7	4,640		19.5	54.0		1
01667	Sodium	7440-23-5	154		40.3	108		1
07968	Strontium	7440-24-6	62.8		0.0670	0.540		1
06969	Tin	7440-31-5	2.64	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,180		0.411	1.08		1
10146	Zirconium	7440-67-7	2.15	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.379		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0865	0.432		2
06126	Barium	7440-39-3	95.3		0.117	0.432		2
06127	Beryllium	7440-41-7	0.620		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.349		0.0432	0.108		2
06131	Chromium	7440-47-3	23.8		0.130	0.432		2
06132	Cobalt	7440-48-4	7.74		0.0216	0.108		2
06133	Copper	7440-50-8	16.0		0.0713	0.432		2
06135	Lead	7439-92-1	10.8		0.0112	0.216		2
06138	Molybdenum	7439-98-7	2.41		0.0540	0.108		2
06139	Nickel	7440-02-0	20.6		0.108	0.432		2
06141	Selenium	7782-49-2	0.227	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0382	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.270		0.0324	0.108		2
06148	Vanadium	7440-62-2	48.4		0.0238	0.108		2
06149	Zinc	7440-66-6	112		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0053	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.79	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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DUP01 SDG#: DE152-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011	20:18	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011	09:01	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011	09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011	09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011	01:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011	11:13	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011	21:52	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011	01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011	18:46	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011	10:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011	10:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011	10:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011	10:27	Choon Y Tian	2

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Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290753
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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DUP01 SDG#: DE152-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 05:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 16:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/23/2011 23:40	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

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Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.9	J	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	11		3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	12		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	7.7	J	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	12		3.6	9.1		5
10138	Chrysene	218-01-9	15		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	9.0	J	3.6	9.1		5
10138	Fluoranthene	206-44-0	20		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.9	J	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	42	J	33	98		5
10138	Phenanthrene	85-01-8	9.4		3.6	9.1		5
10138	Pyrene	129-00-0	16		3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

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Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	13	U	13	13		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.8	U	2.8	2.8		1
10401	MCPA	94-74-6	2,400		84	280		1
10401	MCPP (Mecoprop)	93-65-2	350		83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1

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Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	5.6	U	5.6	5.6		1
01363	p,p-DDD	72-54-8	0.33	U	0.33	0.37		1
01363	p,p-DDE	72-55-9	3.6		0.36	1.9		5
01363	p,p-DDT	50-29-3	6.7		0.36	1.9		5
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.22	U	0.22	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.37		1
01363	Toxaphene	8001-35-2	19	U	19	19		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	3.0		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	1.9	J	0.88	2.6		2
10199	EFH (C21-C30)	n.a.	30		0.88	2.6		2

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Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	91		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	150	J	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	17	U	17	39		10
10318	o-Terphenyl	84-15-1	17	U	17	39		10
10318	p-Terphenyl	92-94-4	17	U	17	39		10
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,500		5.38	21.4		1
07914	Boron	7440-42-8	21.2		0.952	5.35		1
01650	Calcium	7440-70-2	4,680		6.55	21.4		1
01654	Iron	7439-89-6	30,400		25.2	107		5
01656	Lithium	7439-93-2	20.9		0.24	2.1		1
01657	Magnesium	7439-95-4	6,080		2.72	10.7		1
06958	Manganese	7439-96-5	512		0.0834	0.535		1
10145	Phosphorus	7723-14-0	322		0.599	10.7		1
01662	Potassium	7440-09-7	5,390		19.2	53.5		1
01667	Sodium	7440-23-5	110		39.9	107		1
07968	Strontium	7440-24-6	34.4		0.0663	0.535		1
06969	Tin	7440-31-5	2.82	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.406	1.07		1
10146	Zirconium	7440-67-7	2.43	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.698		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.28		0.0864	0.432		2
06126	Barium	7440-39-3	182		0.117	0.432		2
06127	Beryllium	7440-41-7	0.993		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.762		0.0432	0.108		2
06131	Chromium	7440-47-3	36.0		0.130	0.432		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	15.6		0.0216	0.108		2
06133	Copper	7440-50-8	27.1		0.0713	0.432		2
06135	Lead	7439-92-1	20.4		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.813		0.0540	0.108		2
06139	Nickel	7440-02-0	27.7		0.108	0.432		2
06141	Selenium	7782-49-2	0.244	J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0866	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.464		0.0324	0.108		2
06148	Vanadium	7440-62-2	66.0		0.0238	0.108		2
06149	Zinc	7440-66-6	152		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.242		0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.1		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	J	0.20	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.17		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 19:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011 20:45	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 09:32	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 04:54	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:03	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 01:53	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111390003A	05/19/2011 18:40	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 12:07	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 12:20	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 22:11	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111390003A	05/19/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 09:05	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 01:02	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 09:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 11:44	Melissa McDermott	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:07	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1

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Analysis Report

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290754
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL066 SDG#: DE152-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 09:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11143621202A	05/25/2011 09:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 17:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/23/2011 23:52	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:06	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	110	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	57	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	19	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	120	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	42	J	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	55	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	12		0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.81	J	0.37	1.8		1
10138	Anthracene	120-12-7	17		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	99		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	160		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	62		0.73	1.8		1
10138	Di-n-butylphthalate	84-74-2	6.7	J	6.6	20		1
10138	Dibenz(a,h)anthracene	53-70-3	10		0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20		6.6	20		1
10138	Fluoranthene	206-44-0	260		0.73	1.8		1
10138	Fluorene	86-73-7	5.7		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.73	1.8		1
10138	Naphthalene	91-20-3	1.7	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.4	J	6.6	20		1
10138	Phenanthrene	85-01-8	110		0.73	1.8		1
10138	Pyrene	129-00-0	260		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	7.9	U	7.9	7.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,200		84	270		1
10401	MCPP (Mecoprop)	93-65-2	120	J	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.5	U	2.5	3.7		1
01363	p,p-DDD	72-54-8	0.80	U	0.80	0.80		1
01363	p,p-DDE	72-55-9	1.1		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.3		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.091	U	0.091	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.067	U	0.067	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.27	U	0.27	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	8.1		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	3.1		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	4.0		0.88	2.6		2
10199	EFH (C21-C30)	n.a.	23		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	52		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	17	U	17	39		10
10318	o-Terphenyl	84-15-1	17	U	17	39		10
10318	p-Terphenyl	92-94-4	17	U	17	39		10
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.48	21.8		1
07914	Boron	7440-42-8	20.8		0.970	5.45		1
01650	Calcium	7440-70-2	5,060		6.68	21.8		1
01654	Iron	7439-89-6	30,500		25.7	109		5
01656	Lithium	7439-93-2	21.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,790		2.77	10.9		1
06958	Manganese	7439-96-5	492		0.0851	0.545		1
10145	Phosphorus	7723-14-0	289		0.611	10.9		1
01662	Potassium	7440-09-7	4,400		19.6	54.5		1
01667	Sodium	7440-23-5	118		40.7	109		1
07968	Strontium	7440-24-6	39.3		0.0676	0.545		1
06969	Tin	7440-31-5	3.13	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,120		0.414	1.09		1
10146	Zirconium	7440-67-7	2.71	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.529		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.81		0.0864	0.432		2
06126	Barium	7440-39-3	170		0.117	0.432		2
06127	Beryllium	7440-41-7	0.992		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.607		0.0432	0.108		2
06131	Chromium	7440-47-3	33.3		0.130	0.432		2
06132	Cobalt	7440-48-4	11.2		0.0216	0.108		2
06133	Copper	7440-50-8	23.4		0.0713	0.432		2
06135	Lead	7439-92-1	19.3		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.775		0.0540	0.108		2
06139	Nickel	7440-02-0	24.1		0.108	0.432		2
06141	Selenium	7782-49-2	0.218	J	0.0432	0.432		2

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Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	0.0517	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.415		0.0324	0.108		2
06148	Vanadium	7440-62-2	61.8		0.0238	0.108		2
06149	Zinc	7440-66-6	130		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.86		0.0155	0.540		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 19:47	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/23/2011 21:11	Matthew S Woods	1

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SL067 SDG#: DE152-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 10:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	2	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 08:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:13	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 02:21	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 13:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 22:30	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111380034A	05/25/2011 08:15	Tracy A Cole	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 01:17	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 09:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 12:29	Melissa McDermott	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111380034A	05/19/2011 09:00	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:10	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290755
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL067 SDG#: DE152-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:32	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 10:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11143621202A	05/25/2011 10:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 17:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/23/2011 23:59	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5		0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.59	J	0.37	1.8		1
10138	Anthracene	120-12-7	4.5		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	19		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	23		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	38		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	8.2		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	18		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	30		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.5		0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	66		0.74	1.8		1
10138	Fluorene	86-73-7	2.3		0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.5		0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.80	J	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.84	J	0.74	1.8		1
10138	Naphthalene	91-20-3	1.5	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	9.3	J	6.6	20		1
10138	Phenanthrene	85-01-8	33		0.74	1.8		1
10138	Pyrene	129-00-0	54		0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	2.6		0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	J	0.89	1.9		1
10401	MCPA	94-74-6	480	U	480	480		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.040	J	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.19		1
01363	Chlordane	57-74-9	3.1	U	3.1	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.28	U	0.28	0.38		1
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.1		1
01363	Delta BHC	319-86-8	0.18	J	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.31	U	0.31	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.079	U	0.079	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	4.7		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		5.56	22.1		1
07914	Boron	7440-42-8	20.2		0.985	5.53		1
01650	Calcium	7440-70-2	28,100		6.78	22.1		1
01654	Iron	7439-89-6	26,200		5.21	22.1		1
01656	Lithium	7439-93-2	19.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,740		2.81	11.1		1
06958	Manganese	7439-96-5	335		0.0863	0.553		1
10145	Phosphorus	7723-14-0	634		0.620	11.1		1
01662	Potassium	7440-09-7	4,330		19.9	55.3		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	124		41.3	111		1
07968	Strontium	7440-24-6	61.2		0.0686	0.553		1
06969	Tin	7440-31-5	2.71	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,050		0.420	1.11		1
10146	Zirconium	7440-67-7	2.74	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.900		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.98		0.0876	0.438		2
06126	Barium	7440-39-3	125		0.118	0.438		2
06127	Beryllium	7440-41-7	0.727		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.307		0.0438	0.110		2
06131	Chromium	7440-47-3	28.1		0.131	0.438		2
06132	Cobalt	7440-48-4	10.1		0.0219	0.110		2
06133	Copper	7440-50-8	17.8		0.0723	0.438		2
06135	Lead	7439-92-1	12.8		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.655		0.0548	0.110		2
06139	Nickel	7440-02-0	19.8		0.110	0.438		2
06141	Selenium	7782-49-2	0.209	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0349	J	0.0131	0.110		2
06145	Thallium	7440-28-0	0.297		0.0329	0.110		2
06148	Vanadium	7440-62-2	57.1		0.0241	0.110		2
06149	Zinc	7440-66-6	153		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.96		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011	12:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011	09:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011	09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011	09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/23/2011	23:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011	15:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011	22:48	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011	01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011	18:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011	10:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011	10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011	10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011	10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011	10:06	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290756
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 10:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 14:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 00:30	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,900		18	180		1
04688	Aniline	62-53-3	1,400		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,900		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180		1
04688	Benzoic acid	65-85-0	790		180	550		1
04688	Benzyl alcohol	100-51-6	1,900		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,600		18	180		1
04688	Carbazole	86-74-8	1,600		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		37	180		1
04688	4-Chloroaniline	106-47-8	1,200		74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,500		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180		1
04688	Dibenzofuran	132-64-9	1,900		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,900		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,900		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		18	370		1
04688	Fluoranthene	206-44-0	1,500		18	180		1
04688	Fluorene	86-73-7	1,900		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,200		180	550		1
04688	Hexachloroethane	67-72-1	1,700		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180		1
04688	Isophorone	78-59-1	1,800		18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700	18	180		1
04688	2-Methylphenol	95-48-7	1,900	37	180		1
04688	4-Methylphenol	106-44-5	1,800	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,900	18	180		1
04688	3-Nitroaniline	99-09-2	1,800	37	180		1
04688	4-Nitroaniline	100-01-6	1,700	74	180		1
04688	Nitrobenzene	98-95-3	1,800	18	180		1
04688	2-Nitrophenol	88-75-5	1,800	18	180		1
04688	4-Nitrophenol	100-02-7	1,800	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,300	18	180		1
04688	Pentachlorophenol	87-86-5	1,300	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,800	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	26	0.74	1.8		1
10138	Acenaphthylene	208-96-8	22	0.37	1.8		1
10138	Anthracene	120-12-7	27	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	46	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	49	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	62	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	43	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	53	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	26	6.7	20		1
10138	Chrysene	218-01-9	56	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	15	0.74	1.8		1
10138	Diethylphthalate	84-66-2	27	6.7	20		1
10138	Dimethylphthalate	131-11-3	30	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28	6.7	20		1
10138	Fluoranthene	206-44-0	110	0.74	1.8		1
10138	Fluorene	86-73-7	24	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	22	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	19		0.74	1.8		1
10138	Naphthalene	91-20-3	21		0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	28		0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	32		6.7	20		1
10138	Phenanthrene	85-01-8	69		0.74	1.8		1
10138	Pyrene	129-00-0	89		0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	10		1.3	4.0		1
10401	Dalapon	75-99-0	13		4.9	10		1
10401	2,4-DB	94-82-6	17		0.69	1.9		1
10401	Dicamba	1918-00-9	1.1	J	0.45	1.3		1
10401	Dinoseb	88-85-7	2.9		0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	13		0.89	1.9		1
10401	MCPA	94-74-6	1,600		85	280		1
10401	MCPP (Mecoprop)	93-65-2	960		84	280		1
10401	2,4,5-T	93-76-5	0.91		0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.76		0.084	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.25		0.074	0.19		1
01363	Alpha BHC	319-84-6	0.38		0.038	0.19		1
01363	Beta BHC	319-85-7	0.51		0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.45		0.038	0.19		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.97		0.074	0.38		1
01363	p,p-DDE	72-55-9	0.95		0.074	0.38		1
01363	p,p-DDT	50-29-3	1.8		0.074	0.38		1
01363	Delta BHC	319-86-8	0.59		0.040	0.19		1
01363	Dieldrin	60-57-1	1.0		0.074	0.38		1
01363	Endosulfan I	959-98-8	0.18	J	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.54		0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.58		0.074	0.38		1
01363	Endrin	72-20-8	0.79		0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.56		0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.44		0.074	0.38		1
01363	Heptachlor	76-44-8	0.39		0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.31		0.038	0.19		1
01363	Methoxychlor	72-43-5	4.2		0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.1	3.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	19		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	21		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		5.56	22.1		1
07914	Boron	7440-42-8	240		0.985	5.53		1
01650	Calcium	7440-70-2	26,600		6.78	22.1		1
01654	Iron	7439-89-6	29,400		5.21	22.1		1
01656	Lithium	7439-93-2	138		0.24	2.2		1
01657	Magnesium	7439-95-4	6,770		2.81	11.1		1
06958	Manganese	7439-96-5	411		0.0863	0.553		1
10145	Phosphorus	7723-14-0	638		0.620	11.1		1
01662	Potassium	7440-09-7	6,410		19.9	55.3		1
01667	Sodium	7440-23-5	1,230		41.3	111		1
07968	Strontium	7440-24-6	170		0.0686	0.553		1
06969	Tin	7440-31-5	390		1.11	11.1		1
06970	Titanium	7440-32-6	1,560		0.420	1.11		1
10146	Zirconium	7440-67-7	105		0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.28		0.0651	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.52		0.0868	0.434		2
06126	Barium	7440-39-3	131		0.117	0.434		2
06127	Beryllium	7440-41-7	1.62		0.0174	0.108		2
06128	Cadmium	7440-43-9	1.52		0.0434	0.108		2
06131	Chromium	7440-47-3	40.5		0.130	0.434		2
06132	Cobalt	7440-48-4	70.9		0.0217	0.108		2
06133	Copper	7440-50-8	30.9		0.0716	0.434		2
06135	Lead	7439-92-1	15.4		0.0113	0.217		2
06138	Molybdenum	7439-98-7	13.4		0.0542	0.108		2
06139	Nickel	7440-02-0	34.1		0.108	0.434		2
06141	Selenium	7782-49-2	2.59		0.0434	0.434		2
06142	Silver	7440-22-4	13.0		0.0130	0.108		2
06145	Thallium	7440-28-0	0.822		0.0325	0.108		2
06148	Vanadium	7440-62-2	67.7		0.0239	0.108		2
06149	Zinc	7440-66-6	162		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177		0.0031	0.109		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.0	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	496	10.1	33.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	38.5	1.1	5.6		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 13:02	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011 10:26	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 00:03	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 16:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 23:07	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290757
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:23	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 15:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 00:42	Parker D Lindstrom	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,700		18	180		1
04688	Aniline	62-53-3	1,400		180	550		1
04688	Anthracene	120-12-7	1,700		18	180		1
04688	Benzidine	92-87-5	1,600	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,700		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	550		1
04688	Benzyl alcohol	100-51-6	1,800		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180		1
04688	4-Chloroaniline	106-47-8	1,400		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		37	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180		1
04688	Dimethylphthalate	131-11-3	1,700		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,500		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		18	370		1
04688	Fluoranthene	206-44-0	1,500		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,500		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,500		73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,100		180	550		1
04688	Hexachloroethane	67-72-1	1,500		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180		1
04688	Isophorone	78-59-1	1,700		18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600		18	180		1
04688	2-Methylphenol	95-48-7	1,700		37	180		1
04688	4-Methylphenol	106-44-5	1,700		37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		18	180		1
04688	2-Nitroaniline	88-74-4	1,800		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		37	180		1
04688	4-Nitroaniline	100-01-6	1,600		73	180		1
04688	Nitrobenzene	98-95-3	1,700		18	180		1
04688	2-Nitrophenol	88-75-5	1,700		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,300		37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,200		18	180		1
04688	Pentachlorophenol	87-86-5	1,300		180	550		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,600		18	180		1
04688	Pyrene	129-00-0	1,900		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	35		0.74	1.8		1
10138	Acenaphthylene	208-96-8	36		0.37	1.8		1
10138	Anthracene	120-12-7	39		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	43		0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	45		0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	60		0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	17		0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	55		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	72		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	48		6.7	20		1
10138	Chrysene	218-01-9	47		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	20		0.74	1.8		1
10138	Diethylphthalate	84-66-2	38		6.7	20		1
10138	Dimethylphthalate	131-11-3	570	E	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	60		6.7	20		1
10138	Fluoranthene	206-44-0	68		0.74	1.8		1
10138	Fluorene	86-73-7	37		0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21		0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	31		0.74	1.8		1
10138	Naphthalene	91-20-3	34		0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	73		6.7	20		1
10138	Phenanthrene	85-01-8	49		0.74	1.8		1
10138	Pyrene	129-00-0	60		0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.5		1.3	4.0		1
10401	Dalapon	75-99-0	18		4.9	10		1
10401	2,4-DB	94-82-6	12		0.69	1.9		1
10401	Dicamba	1918-00-9	1.1	J	0.45	1.3		1
10401	Dinoseb	88-85-7	3.5		0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	11		0.89	1.9		1
10401	MCPA	94-74-6	1,400		85	280		1
10401	MCPP (Mecoprop)	93-65-2	770		84	280		1
10401	2,4,5-T	93-76-5	1.1		0.092	0.19		1
10401	2,4,5-TP	93-72-1	1.1		0.084	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.17	J	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.25		0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.32		0.038	0.19		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.50		0.074	0.38		1
01363	p,p-DDE	72-55-9	0.69		0.074	0.38		1
01363	p,p-DDT	50-29-3	1.5		0.074	0.38		1
01363	Delta BHC	319-86-8	0.37		0.040	0.19		1
01363	Dieldrin	60-57-1	0.41		0.074	0.38		1
01363	Endosulfan I	959-98-8	0.11	J	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.30	J	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.51		0.074	0.38		1
01363	Endrin	72-20-8	0.44		0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.58		0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.46		0.074	0.38		1
01363	Heptachlor	76-44-8	0.25		0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.22		0.038	0.19		1
01363	Methoxychlor	72-43-5	2.4		0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	7.0		1.1	3.7		1

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Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	22		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	25		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,000		5.56	22.1		1
07914	Boron	7440-42-8	240		0.985	5.53		1
01650	Calcium	7440-70-2	32,000		6.78	22.1		1
01654	Iron	7439-89-6	29,400		5.21	22.1		1
01656	Lithium	7439-93-2	138		0.24	2.2		1
01657	Magnesium	7439-95-4	7,060		2.81	11.1		1
06958	Manganese	7439-96-5	430		0.0863	0.553		1
10145	Phosphorus	7723-14-0	666		0.620	11.1		1
01662	Potassium	7440-09-7	6,580		19.9	55.3		1
01667	Sodium	7440-23-5	1,300		41.3	111		1
07968	Strontium	7440-24-6	180		0.0686	0.553		1
06969	Tin	7440-31-5	387		1.11	11.1		1
06970	Titanium	7440-32-6	1,560		0.420	1.11		1
10146	Zirconium	7440-67-7	105		0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.31		0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.45		0.0859	0.430		2
06126	Barium	7440-39-3	164		0.116	0.430		2
06127	Beryllium	7440-41-7	1.61		0.0172	0.107		2
06128	Cadmium	7440-43-9	1.67		0.0430	0.107		2
06131	Chromium	7440-47-3	43.3		0.129	0.430		2
06132	Cobalt	7440-48-4	78.7		0.0215	0.107		2
06133	Copper	7440-50-8	34.3		0.0709	0.430		2
06135	Lead	7439-92-1	17.7		0.0112	0.215		2
06138	Molybdenum	7439-98-7	14.6		0.0537	0.107		2
06139	Nickel	7440-02-0	37.0		0.107	0.430		2
06141	Selenium	7782-49-2	2.76		0.0430	0.430		2
06142	Silver	7440-22-4	13.5		0.0129	0.107		2
06145	Thallium	7440-28-0	0.843		0.0322	0.107		2
06148	Vanadium	7440-62-2	74.9		0.0236	0.107		2
06149	Zinc	7440-66-6	193		0.602	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.166		0.0032	0.110		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 13:29	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/21/2011 10:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 00:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 16:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/28/2011 23:25	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:27	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290758
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290759
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.62	22.3		1
07914	Boron	7440-42-8	20.3		0.994	5.59		1
01650	Calcium	7440-70-2	27,500		6.85	22.3		1
01654	Iron	7439-89-6	28,300		5.26	22.3		1
01656	Lithium	7439-93-2	20.0		0.25	2.2		1
01657	Magnesium	7439-95-4	5,830		2.84	11.2		1
06958	Manganese	7439-96-5	380		0.0872	0.559		1
10145	Phosphorus	7723-14-0	527		0.626	11.2		1
01662	Potassium	7440-09-7	4,470		20.1	55.9		1
01667	Sodium	7440-23-5	110	J	41.7	112		1
07968	Strontium	7440-24-6	61.0		0.0693	0.559		1
06969	Tin	7440-31-5	2.71	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,040		0.425	1.12		1
10146	Zirconium	7440-67-7	3.20	J	0.939	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.307		0.0645	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.91		0.0859	0.430		2
06126	Barium	7440-39-3	91.4		0.116	0.430		2
06127	Beryllium	7440-41-7	0.540		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.254		0.0430	0.107		2
06131	Chromium	7440-47-3	24.6		0.129	0.430		2
06132	Cobalt	7440-48-4	7.90		0.0215	0.107		2
06133	Copper	7440-50-8	13.7		0.0709	0.430		2
06135	Lead	7439-92-1	15.4		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.469		0.0537	0.107		2
06139	Nickel	7440-02-0	15.2		0.107	0.430		2
06141	Selenium	7782-49-2	0.158	J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0333	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.290		0.0322	0.107		2
06148	Vanadium	7440-62-2	45.4		0.0236	0.107		2
06149	Zinc	7440-66-6	115		0.602	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290759
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290759
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL072 SDG#: DE152-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 11:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 15:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 01:19	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	32		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	34		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	74		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	8.9	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	27		3.7	9.2		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	99		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	99		5
10138	Chrysene	218-01-9	34		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.7	9.2		5
10138	Diethylphthalate	84-66-2	33	U	33	99		5
10138	Dimethylphthalate	131-11-3	33	U	33	99		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	U	33	99		5
10138	Fluoranthene	206-44-0	39		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.1	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	99		5
10138	Phenanthrene	85-01-8	5.6	J	3.7	9.2		5
10138	Pyrene	129-00-0	41		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	8.7	U	8.7	8.7		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	410		84	280		1
10401	MCPP (Mecoprop)	93-65-2	350		83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.19	U	0.19	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Chlordane	57-74-9	2.0	U	2.0	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.57		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.4		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.099	J	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	4.9		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.8	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.55	22.1		1
07914	Boron	7440-42-8	20.4		0.981	5.51		1
01650	Calcium	7440-70-2	4,820		6.76	22.1		1
01654	Iron	7439-89-6	28,900		5.19	22.1		1
01656	Lithium	7439-93-2	20.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,690		2.80	11.0		1
06958	Manganese	7439-96-5	793		0.0860	0.551		1
10145	Phosphorus	7723-14-0	346		0.617	11.0		1
01662	Potassium	7440-09-7	4,570		19.8	55.1		1
01667	Sodium	7440-23-5	126		41.1	110		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	35.2		0.0684	0.551		1
06969	Tin	7440-31-5	2.84	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,280		0.419	1.10		1
10146	Zirconium	7440-67-7	1.19	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.375		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.89		0.0882	0.441		2
06126	Barium	7440-39-3	150		0.119	0.441		2
06127	Beryllium	7440-41-7	0.866		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.549		0.0441	0.110		2
06131	Chromium	7440-47-3	29.0		0.132	0.441		2
06132	Cobalt	7440-48-4	10.4		0.0221	0.110		2
06133	Copper	7440-50-8	17.7		0.0728	0.441		2
06135	Lead	7439-92-1	11.8		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.647		0.0551	0.110		2
06139	Nickel	7440-02-0	20.6		0.110	0.441		2
06141	Selenium	7782-49-2	0.203	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0526	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.364		0.0331	0.110		2
06148	Vanadium	7440-62-2	54.4		0.0243	0.110		2
06149	Zinc	7440-66-6	91.8		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	4.75		0.0305	1.06		10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 13:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 10:35	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 09:09	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 02:49	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 17:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	06/06/2011 18:30	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 18:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290760
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL074 SDG#: DE152-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 09:52	Damary Valentin	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 12:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 17:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 01:32	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	10		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10		5
10138	Anthracene	120-12-7	2.0	U	2.0	10		5
10138	Benzo(a)anthracene	56-55-3	4.0	U	4.0	10		5
10138	Benzo(a)pyrene	50-32-8	4.0	U	4.0	10		5
10138	Benzo(b)fluoranthene	205-99-2	4.0	U	4.0	10		5
10138	Benzo(g,h,i)perylene	191-24-2	4.0	U	4.0	10		5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U	4.0	10		5
10138	Butylbenzylphthalate	85-68-7	36	U	36	110		5
10138	Di-n-butylphthalate	84-74-2	36	U	36	110		5
10138	Chrysene	218-01-9	2.2	J	2.0	10		5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	10		5
10138	Diethylphthalate	84-66-2	36	U	36	110		5
10138	Dimethylphthalate	131-11-3	36	U	36	110		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36	U	36	110		5
10138	Fluoranthene	206-44-0	4.0	U	4.0	10		5
10138	Fluorene	86-73-7	4.0	U	4.0	10		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U	4.0	10		5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	10		5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	10		5
10138	Naphthalene	91-20-3	4.0	U	4.0	10		5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	10		5
10138	Di-n-octylphthalate	117-84-0	36	U	36	110		5
10138	Phenanthrene	85-01-8	4.0	U	4.0	10		5
10138	Pyrene	129-00-0	4.0	U	4.0	10		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3		1
10401	Dalapon	75-99-0	5.3	U	5.3	11		1
10401	2,4-DB	94-82-6	1.2	J	0.75	2.1		1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4		1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.97	U	0.97	2.1		1
10401	MCPA	94-74-6	92	U	92	300		1
10401	MCPP (Mecoprop)	93-65-2	91	U	91	300		1
10401	2,4,5-T	93-76-5	0.099	U	0.099	0.21		1
10401	2,4,5-TP	93-72-1	0.091	U	0.091	0.21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.080	U	0.080	0.20		1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20		1
01363	Beta BHC	319-85-7	0.073	U	0.073	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20		1
01363	Chlordane	57-74-9	1.2	U	1.2	4.1		1
01363	p,p-DDD	72-54-8	0.080	U	0.080	0.41		1
01363	p,p-DDE	72-55-9	0.080	U	0.080	0.41		1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.41		1
01363	Delta BHC	319-86-8	0.044	U	0.044	0.20		1
01363	Dieldrin	60-57-1	0.080	U	0.080	0.41		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20		1
01363	Endosulfan II	33213-65-9	0.16	J	0.080	0.41		1
01363	Endosulfan Sulfate	1031-07-8	0.080	U	0.080	0.41		1
01363	Endrin	72-20-8	0.080	U	0.080	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.080	U	0.080	0.41		1
01363	Endrin Ketone	53494-70-5	0.080	U	0.080	0.41		1
01363	Heptachlor	76-44-8	0.073	U	0.073	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20		1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0		1
01363	Mirex	2385-85-5	2.0		0.080	0.41		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDT

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	1.4	J	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,800		6.05	24.1		1
07914	Boron	7440-42-8	19.8		1.07	6.02		1
01650	Calcium	7440-70-2	5,780		7.37	24.1		1
01654	Iron	7439-89-6	29,600		5.67	24.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	23.4		0.26	2.4		1
01657	Magnesium	7439-95-4	6,000		3.06	12.0		1
06958	Manganese	7439-96-5	754		0.0938	0.602		1
10145	Phosphorus	7723-14-0	363		0.674	12.0		1
01662	Potassium	7440-09-7	3,540		21.7	60.2		1
01667	Sodium	7440-23-5	158		44.9	120		1
07968	Strontium	7440-24-6	44.7		0.0746	0.602		1
06969	Tin	7440-31-5	2.92	J	1.20	12.0		1
06970	Titanium	7440-32-6	1,320		0.457	1.20		1
10146	Zirconium	7440-67-7	1.96	J	1.01	6.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.288		0.0708	0.236		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.49		0.0944	0.472		2
06126	Barium	7440-39-3	149		0.127	0.472		2
06127	Beryllium	7440-41-7	0.829		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.217		0.0472	0.118		2
06131	Chromium	7440-47-3	28.5		0.142	0.472		2
06132	Cobalt	7440-48-4	8.85		0.0236	0.118		2
06133	Copper	7440-50-8	14.4		0.0779	0.472		2
06135	Lead	7439-92-1	9.36		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.402		0.0590	0.118		2
06139	Nickel	7440-02-0	19.9		0.118	0.472		2
06141	Selenium	7782-49-2	0.137	J	0.0472	0.472		2
06142	Silver	7440-22-4	0.0527	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.334		0.0354	0.118		2
06148	Vanadium	7440-62-2	52.8		0.0260	0.118		2
06149	Zinc	7440-66-6	61.8		0.661	3.54		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.102	J	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.97	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9	U	10.9	36.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.75		0.0100	0.0100		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	17.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011	14:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011	11:07	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011	09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011	09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011	03:16	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011	17:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011	00:02	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011	14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011	01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011	19:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011	11:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011	11:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011	11:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011	11:16	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290761
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL075 SDG#: DE152-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111381026001A	05/22/2011 23:32	David K Beck	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 11:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 11:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 12:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	06/01/2011 17:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/24/2011 01:38	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11143621201A	05/25/2011 08:15	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	20	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	5.6	J	3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	5.9	J	3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	J	3.6	9.0		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	98		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	98		5
10138	Chrysene	218-01-9	7.2	J	1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	U	33	98		5
10138	Fluoranthene	206-44-0	14		3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98		5
10138	Phenanthrene	85-01-8	5.6	J	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	4.4	U	4.4	4.4		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	170	J	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.82	U	0.82	1.9		1

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Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.076	J	0.037	0.18		1
01363	Chlordane	57-74-9	3.8	U	3.8	3.8		1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.37		1
01363	p,p-DDE	72-55-9	0.36	J	0.072	0.37		1
01363	p,p-DDT	50-29-3	1.7		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.32	U	0.32	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.089	U	0.089	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.28	U	0.28	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.7		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.5		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,900		5.30	21.1		1
07914	Boron	7440-42-8	20.9		0.938	5.27		1

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Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,750		6.46	21.1		1
01654	Iron	7439-89-6	33,600		24.8	105		5
01656	Lithium	7439-93-2	21.9		0.23	2.1		1
01657	Magnesium	7439-95-4	5,760		2.68	10.5		1
06958	Manganese	7439-96-5	363		0.0822	0.527		1
10145	Phosphorus	7723-14-0	323		0.590	10.5		1
01662	Potassium	7440-09-7	4,070		19.0	52.7		1
01667	Sodium	7440-23-5	134		39.3	105		1
07968	Strontium	7440-24-6	32.7		0.0654	0.527		1
06969	Tin	7440-31-5	2.75	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,310		0.401	1.05		1
10146	Zirconium	7440-67-7	2.18	J	0.886	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.548		0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.67		0.0843	0.422		2
06126	Barium	7440-39-3	143		0.285	1.05		5
06127	Beryllium	7440-41-7	1.05		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.706		0.0422	0.105		2
06131	Chromium	7440-47-3	36.3		0.127	0.422		2
06132	Cobalt	7440-48-4	13.8		0.0211	0.105		2
06133	Copper	7440-50-8	22.9		0.0696	0.422		2
06135	Lead	7439-92-1	17.0		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.796		0.0527	0.105		2
06139	Nickel	7440-02-0	25.6		0.105	0.422		2
06141	Selenium	7782-49-2	0.206	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0797	J	0.0127	0.105		2
06145	Thallium	7440-28-0	0.396		0.0316	0.105		2
06148	Vanadium	7440-62-2	71.1		0.0232	0.105		2
06149	Zinc	7440-66-6	129		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	3.34		0.0156	0.545		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.22	1.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

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Reported: 06/16/2011 12:13

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.23	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	8.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 14:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 11:39	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 03:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 18:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 00:20	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:14	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:07	John W Yanzuk II	1

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Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290762
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL076 SDG#: DE152-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06126	Barium	SW-846 6020	2	111381026001D	05/22/2011 23:34	David K Beck	5
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:37	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 13:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 18:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 01:57	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	29	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	28	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	6.6	J	3.7	9.1		5
10138	Benzo(a)pyrene	50-32-8	7.8	J	3.7	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	17		3.7	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	5.0	J	3.7	9.1		5
10138	Chrysene	218-01-9	9.2		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.1		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38	J	33	99		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.1		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.1		5
10138	Phenanthrene	85-01-8	8.3	J	3.7	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	4.0	U	4.0	4.0		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	310	U	310	310		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.043	U	0.043	0.18		1
01363	Beta BHC	319-85-7	0.15	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.0	U	2.0	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.55		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.8		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.44		0.073	0.38		1

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SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
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SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.38		1
01363	Endrin Ketone	53494-70-5	0.21	U	0.21	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	4.8		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		5.39	21.4		1
07914	Boron	7440-42-8	20.0		0.954	5.36		1
01650	Calcium	7440-70-2	5,120		6.57	21.4		1
01654	Iron	7439-89-6	28,700		5.05	21.4		1
01656	Lithium	7439-93-2	20.9		0.24	2.1		1
01657	Magnesium	7439-95-4	5,610		2.72	10.7		1
06958	Manganese	7439-96-5	412		0.0836	0.536		1
10145	Phosphorus	7723-14-0	420		0.600	10.7		1
01662	Potassium	7440-09-7	4,470		19.3	53.6		1
01667	Sodium	7440-23-5	109		40.0	107		1
07968	Strontium	7440-24-6	34.4		0.0664	0.536		1
06969	Tin	7440-31-5	2.77	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,300		0.407	1.07		1
10146	Zirconium	7440-67-7	2.75	J	0.900	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
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SL079 SDG#: DE152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.483		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.08		0.0874	0.437		2
06126	Barium	7440-39-3	172		0.118	0.437		2
06127	Beryllium	7440-41-7	0.928		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.748		0.0437	0.109		2
06131	Chromium	7440-47-3	32.7		0.131	0.437		2
06132	Cobalt	7440-48-4	11.9		0.0219	0.109		2
06133	Copper	7440-50-8	22.4		0.0721	0.437		2
06135	Lead	7439-92-1	16.0		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.747		0.0546	0.109		2
06139	Nickel	7440-02-0	24.3		0.109	0.437		2
06141	Selenium	7782-49-2	0.192	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0972	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.409		0.0328	0.109		2
06148	Vanadium	7440-62-2	62.2		0.0240	0.109		2
06149	Zinc	7440-66-6	140		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	35.4		0.314	10.9		100
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 15:15	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 12:10	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 09:51	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 05:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 20:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 00:39	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290763
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL079 SDG#: DE152-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:42	Damary Valentin	100
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 13:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 19:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/24/2011 02:03	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402A	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	5.2	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	16		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Chrysene	218-01-9	6.9	J	1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	8.9	J	3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	4.3	J	3.7	9.2		5
10138	Pyrene	129-00-0	7.5	J	3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	90	U	90	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	3.9	U	3.9	3.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	200	J	84	280		1
10401	MCPP (Mecoprop)	93-65-2	830	U	830	2,800		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	3.4	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.45		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.3		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1

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Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Dieldrin	60-57-1	0.38	U	0.38	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	5.5		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.2		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.53	22.0		1
07914	Boron	7440-42-8	19.3		0.979	5.50		1
01650	Calcium	7440-70-2	4,890		6.74	22.0		1
01654	Iron	7439-89-6	26,700		5.18	22.0		1
01656	Lithium	7439-93-2	19.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,280		2.79	11.0		1
06958	Manganese	7439-96-5	478		0.0858	0.550		1
10145	Phosphorus	7723-14-0	396		0.616	11.0		1
01662	Potassium	7440-09-7	4,590		19.8	55.0		1
01667	Sodium	7440-23-5	99.5	J	41.0	110		1
07968	Strontium	7440-24-6	32.2		0.0682	0.550		1
06969	Tin	7440-31-5	2.88	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,150		0.418	1.10		1
10146	Zirconium	7440-67-7	0.924	U	0.924	5.50		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.456		0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.37		0.0880	0.440		2
06126	Barium	7440-39-3	169		0.119	0.440		2
06127	Beryllium	7440-41-7	0.948		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.640		0.0440	0.110		2
06131	Chromium	7440-47-3	31.6		0.132	0.440		2
06132	Cobalt	7440-48-4	11.4		0.0220	0.110		2
06133	Copper	7440-50-8	19.6		0.0726	0.440		2
06135	Lead	7439-92-1	13.6		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.633		0.0550	0.110		2
06139	Nickel	7440-02-0	23.6		0.110	0.440		2
06141	Selenium	7782-49-2	0.200	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.0782	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.379		0.0330	0.110		2
06148	Vanadium	7440-62-2	58.7		0.0242	0.110		2
06149	Zinc	7440-66-6	121		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	4.95		0.0312	1.09		10
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 15:41	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 12:43	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 10:33	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 05:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 21:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 00:57	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290764
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL080 SDG#: DE152-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:44	Damary Valentin	10
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202A	05/25/2011 13:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201A	05/23/2011 19:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 02:22	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202A	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201A	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.62	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	3.3		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.41	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	3.6		0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	19	J	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	7.3		0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	470		82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.19	U	0.19	0.19		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.6	J	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.41	U	0.41	0.41		1
01363	p,p-DDE	72-55-9	0.39		0.071	0.37		1
01363	p,p-DDT	50-29-3	1.5		0.071	0.37		1

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Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.47		0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	2.3		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.22	20.7		1
07914	Boron	7440-42-8	18.2		0.923	5.19		1
01650	Calcium	7440-70-2	4,570		6.36	20.7		1
01654	Iron	7439-89-6	27,400		4.89	20.7		1
01656	Lithium	7439-93-2	19.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,580		2.63	10.4		1
06958	Manganese	7439-96-5	449		0.0809	0.519		1
10145	Phosphorus	7723-14-0	415		0.581	10.4		1
01662	Potassium	7440-09-7	3,980		18.7	51.9		1
01667	Sodium	7440-23-5	136		38.7	104		1
07968	Strontium	7440-24-6	32.0		0.0643	0.519		1
06969	Tin	7440-31-5	2.65	J	1.04	10.4		1

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Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,310		0.394	1.04		1
10146	Zirconium	7440-67-7	1.76	J	0.871	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.412		0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.49		0.0846	0.423		2
06126	Barium	7440-39-3	160		0.114	0.423		2
06127	Beryllium	7440-41-7	0.802		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.514		0.0423	0.106		2
06131	Chromium	7440-47-3	28.1		0.127	0.423		2
06132	Cobalt	7440-48-4	9.85		0.0212	0.106		2
06133	Copper	7440-50-8	19.4		0.0698	0.423		2
06135	Lead	7439-92-1	14.3		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.651		0.0529	0.106		2
06139	Nickel	7440-02-0	20.0		0.106	0.423		2
06141	Selenium	7782-49-2	0.157	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0670	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.360		0.0317	0.106		2
06148	Vanadium	7440-62-2	55.4		0.0233	0.106		2
06149	Zinc	7440-66-6	113		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.31		0.0147	0.514		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.3		0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 16:07	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 13:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 11:16	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 06:02	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 22:12	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 01:16	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 10:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 10:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 10:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290765
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL081 SDG#: DE152-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 10:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:45	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 13:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 19:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11140243202A	05/24/2011 02:40	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	5.1	J	3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	6.7	J	3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	20		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.1		5
10138	Chrysene	218-01-9	7.0	J	1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Fluoranthene	206-44-0	12		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	5.1	J	3.6	9.1		5
10138	Pyrene	129-00-0	10		3.6	9.1		5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

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SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,100		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.27	U	0.27	0.27		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.18		1
01363	Chlordane	57-74-9	28	U	28	38		10
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	1.9		0.073	0.38		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDT	50-29-3	2.6	J	0.73	3.8		10
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	1.6	U	1.6	1.6		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.11	U	0.11	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.49	U	0.49	0.49		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.21	U	0.21	0.21		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.092	U	0.092	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	12		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	10		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		5.50	21.9		1
07914	Boron	7440-42-8	20.3		0.974	5.47		1
01650	Calcium	7440-70-2	6,030		6.71	21.9		1
01654	Iron	7439-89-6	30,900		25.8	109		5
01656	Lithium	7439-93-2	21.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,690		2.78	10.9		1
06958	Manganese	7439-96-5	469		0.0853	0.547		1
10145	Phosphorus	7723-14-0	336		0.613	10.9		1
01662	Potassium	7440-09-7	4,520		19.7	54.7		1
01667	Sodium	7440-23-5	104	J	40.8	109		1
07968	Strontium	7440-24-6	33.1		0.0678	0.547		1

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SL-082-SA5DN-SS-0.0-0.5

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SL082 SDG#: DE152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.00	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,220		0.416	1.09		1
10146	Zirconium	7440-67-7	2.60	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.726		0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.98		0.0850	0.425		2
06126	Barium	7440-39-3	178		0.115	0.425		2
06127	Beryllium	7440-41-7	1.11		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.766		0.0425	0.106		2
06131	Chromium	7440-47-3	37.2		0.127	0.425		2
06132	Cobalt	7440-48-4	17.0		0.0212	0.106		2
06133	Copper	7440-50-8	24.0		0.0701	0.425		2
06135	Lead	7439-92-1	22.9		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.776		0.0531	0.106		2
06139	Nickel	7440-02-0	27.3		0.106	0.425		2
06141	Selenium	7782-49-2	0.223	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0727	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.398		0.0319	0.106		2
06148	Vanadium	7440-62-2	70.9		0.0234	0.106		2
06149	Zinc	7440-66-6	146		1.49	7.97		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.69		0.0156	0.543		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

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SL082 SDG#: DE152-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 16:34	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 13:47	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 11:58	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 06:29	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 22:52	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 23:05	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 01:34	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:18	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 11:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 11:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290766
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL082 SDG#: DE152-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/22/2011 23:36	David K Beck	5
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:47	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 14:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 21:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 02:59	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	6.1	J	3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	9.6		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	34		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.1		5
10138	Chrysene	218-01-9	10		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Fluoranthene	206-44-0	25		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	15		3.6	9.1		5
10138	Pyrene	129-00-0	19		3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	9.1		0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,200		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.8	U	2.8	3.8		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.38		1
01363	p,p-DDE	72-55-9	0.33	U	0.33	0.38		1
01363	p,p-DDT	50-29-3	0.90		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.066	J	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.5		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.1	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,000		5.50	21.9		1
07914	Boron	7440-42-8	21.3		0.974	5.47		1
01650	Calcium	7440-70-2	5,060		6.71	21.9		1
01654	Iron	7439-89-6	31,500		25.8	109		5
01656	Lithium	7439-93-2	22.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,910		2.78	10.9		1
06958	Manganese	7439-96-5	588		0.0853	0.547		1
10145	Phosphorus	7723-14-0	322		0.613	10.9		1
01662	Potassium	7440-09-7	4,260		19.7	54.7		1
01667	Sodium	7440-23-5	103	J	40.8	109		1
07968	Strontium	7440-24-6	32.5		0.0678	0.547		1
06969	Tin	7440-31-5	2.83	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230		0.416	1.09		1
10146	Zirconium	7440-67-7	2.63	J	0.919	5.47		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.423		0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.90		0.0858	0.429		2
06126	Barium	7440-39-3	129		0.116	0.429		2
06127	Beryllium	7440-41-7	0.745		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.498		0.0429	0.107		2
06131	Chromium	7440-47-3	26.6		0.129	0.429		2
06132	Cobalt	7440-48-4	9.82		0.0215	0.107		2
06133	Copper	7440-50-8	18.0		0.0708	0.429		2
06135	Lead	7439-92-1	13.0		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.567		0.0536	0.107		2
06139	Nickel	7440-02-0	19.3		0.107	0.429		2
06141	Selenium	7782-49-2	0.134	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0720	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.325		0.0322	0.107		2
06148	Vanadium	7440-62-2	51.2		0.0236	0.107		2
06149	Zinc	7440-66-6	102		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.34		0.0157	0.546		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 17:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 14:20	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 12:41	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 06:57	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/27/2011 23:46	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 01:53	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 22:21	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/22/2011 23:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 11:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/19/2011 11:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290767
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL083 SDG#: DE152-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 11:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:50	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 14:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 21:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 03:12	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.2		0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.49	J	0.37	1.9		1
10138	Anthracene	120-12-7	12		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	120		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	93		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	200		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	69		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	110		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	6.8		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.7	20		1
10138	Fluoranthene	206-44-0	250		0.75	1.9		1
10138	Fluorene	86-73-7	1.1	J	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	48		0.75	1.9		1
10138	Pyrene	129-00-0	210		0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	140		56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	29	U	29	29		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.1	J	0.90	1.9		1
10401	MCPA	94-74-6	690		85	280		1
10401	MCPP (Mecoprop)	93-65-2	88	J	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.20	U	0.20	0.20		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	3.3	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.38		1
01363	p,p-DDE	72-55-9	0.36	J	0.074	0.38		1
01363	p,p-DDT	50-29-3	1.5		0.074	0.38		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.24	U	0.24	0.38		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.087	U	0.087	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	7.0		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,300		5.56	22.1		1
07914	Boron	7440-42-8	19.3		0.984	5.53		1
01650	Calcium	7440-70-2	4,830		6.78	22.1		1
01654	Iron	7439-89-6	28,600		5.21	22.1		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	5,940		2.81	11.1		1
06958	Manganese	7439-96-5	376		0.0862	0.553		1
10145	Phosphorus	7723-14-0	389		0.619	11.1		1
01662	Potassium	7440-09-7	4,290		19.9	55.3		1
01667	Sodium	7440-23-5	138		41.2	111		1
07968	Strontium	7440-24-6	32.1		0.0685	0.553		1
06969	Tin	7440-31-5	2.78	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,320		0.420	1.11		1
10146	Zirconium	7440-67-7	2.19	J	0.928	5.53		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.445		0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.85		0.0867	0.434		2
06126	Barium	7440-39-3	140		0.117	0.434		2
06127	Beryllium	7440-41-7	0.727		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.559		0.0434	0.108		2
06131	Chromium	7440-47-3	25.4		0.130	0.434		2
06132	Cobalt	7440-48-4	8.76		0.0217	0.108		2
06133	Copper	7440-50-8	16.9		0.0715	0.434		2
06135	Lead	7439-92-1	13.9		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.514		0.0542	0.108		2
06139	Nickel	7440-02-0	17.4		0.108	0.434		2
06141	Selenium	7782-49-2	0.176	J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0570	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.311		0.0325	0.108		2
06148	Vanadium	7440-62-2	51.1		0.0238	0.108		2
06149	Zinc	7440-66-6	128		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.53		0.0153	0.535		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 17:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 14:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 13:23	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 07:24	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/28/2011 02:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	05/29/2011 03:25	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111385708003	05/20/2011 19:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111381026001A	05/22/2011 23:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111381026001D	05/19/2011 11:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111381026001A	05/22/2011 23:39	David K Beck	2
06131	Chromium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111381026001C	05/22/2011 23:39	David K Beck	2
06139	Nickel	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111381026001B	05/19/2011 11:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290768
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL084 SDG#: DE152-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111381026001A	05/19/2011 11:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111385711005	05/19/2011 06:52	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111385708003	05/18/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111381026001	05/18/2011 21:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111385711005	05/19/2011 00:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 15:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 21:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 03:24	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	9.7		0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.73	J	0.38	1.9		1
10138	Anthracene	120-12-7	31		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	290		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	240		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	450		7.5	19		10
10138	Benzo(g,h,i)perylene	191-24-2	37		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	160		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	260		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	19		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.8	20		1
10138	Fluoranthene	206-44-0	450		7.5	19		10
10138	Fluorene	86-73-7	6.8		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	49		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.96	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.75	1.9		1
10138	Naphthalene	91-20-3	4.0		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	160		0.75	1.9		1
10138	Pyrene	129-00-0	390		7.5	19		10
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1

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Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	7.2	U	7.2	7.2		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.0	U	2.0	2.0		1
10401	MCPA	94-74-6	980		86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.22	U	0.22	0.22		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	2.2	U	2.2	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.58		0.075	0.39		1

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Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDT	50-29-3	1.1		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.19	U	0.19	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.083	U	0.083	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.47		0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	6.7		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.4	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.50	21.9		1
07914	Boron	7440-42-8	22.1		0.972	5.46		1
01650	Calcium	7440-70-2	5,150		6.70	21.9		1
01654	Iron	7439-89-6	32,100		25.7	109		5
01656	Lithium	7439-93-2	22.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,830		2.78	10.9		1
06958	Manganese	7439-96-5	411		0.0852	0.546		1
10145	Phosphorus	7723-14-0	329		0.612	10.9		1
01662	Potassium	7440-09-7	4,440		19.7	54.6		1
01667	Sodium	7440-23-5	94.2	J	40.8	109		1
07968	Strontium	7440-24-6	32.2		0.0677	0.546		1

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Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.69	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,170		0.415	1.09		1
10146	Zirconium	7440-67-7	2.56	J	0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.463		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.27		0.0874	0.437		2
06126	Barium	7440-39-3	159		0.118	0.437		2
06127	Beryllium	7440-41-7	1.00		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.646		0.0437	0.109		2
06131	Chromium	7440-47-3	28.2		0.131	0.437		2
06132	Cobalt	7440-48-4	12.5		0.0219	0.109		2
06133	Copper	7440-50-8	20.5		0.0721	0.437		2
06135	Lead	7439-92-1	12.5		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.624		0.0546	0.109		2
06139	Nickel	7440-02-0	24.0		0.109	0.437		2
06141	Selenium	7782-49-2	0.185	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0631	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.370		0.0328	0.109		2
06148	Vanadium	7440-62-2	66.3		0.0240	0.109		2
06149	Zinc	7440-66-6	106		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.79		0.0157	0.546		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLM026	05/24/2011 17:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 15:23	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLL026	05/23/2011 16:32	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLL026	05/20/2011 09:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLM026	05/20/2011 09:00	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 14:05	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111390017A	05/24/2011 07:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400005A	05/28/2011 02:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111400007A	06/06/2011 18:49	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400005A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111400007A	05/20/2011 14:30	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111390017A	05/20/2011 01:45	Roman Kuropatkin	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 20:47	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 13:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290769
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL206 SDG#: DE152-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:54	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143621202B	05/25/2011 15:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143621201B	05/23/2011 22:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11140243202A	05/24/2011 03:36	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143621202B	05/23/2011 12:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143621201B	05/23/2011 11:20	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11140243202A	05/20/2011 19:15	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB01-SA5DN-SS-051711 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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Analysis Report

Sample Description: EB01-SA5DN-SS-051711 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.17	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.051	U	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.30	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.032	J	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.032	J	0.010	0.051		1
10137	Naphthalene	91-20-3	0.20		0.031	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.26	J	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.3		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.086	U	0.086	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	54	U	54	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1

The LCS/LCSD recovery for dicamba is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB01-SA5DN-SS-051711 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
00177	Alpha BHC	319-84-6	0.0030 U	0.0030	0.010		1
00177	Beta BHC	319-85-7	0.0029 U	0.0029	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0020 U	0.0020	0.010		1
00177	Chlordane	57-74-9	0.12 U	0.12	0.51		1
00177	p,p-DDD	72-54-8	0.0051 U	0.0051	0.020		1
00177	p,p-DDE	72-55-9	0.0051 U	0.0051	0.020		1
00177	p,p-DDT	50-29-3	0.0051 U	0.0051	0.020		1
00177	Delta BHC	319-86-8	0.0029 U	0.0029	0.010		1
00177	Dieldrin	60-57-1	0.0054 U	0.0054	0.020		1
00177	Endosulfan I	959-98-8	0.0044 U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.015 U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0059 U	0.0059	0.020		1
00177	Endrin	72-20-8	0.0082 U	0.0082	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020 U	0.020	0.10		1
00177	Endrin Ketone	53494-70-5	0.0051 U	0.0051	0.020		1
00177	Heptachlor	76-44-8	0.0026 U	0.0026	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0023 U	0.0023	0.010		1
00177	Methoxychlor	72-43-5	0.030 U	0.030	0.10		1
00177	Mirex	2385-85-5	0.086 U	0.086	0.25		1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16 U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0184 J	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB01-SA5DN-SS-051711 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	7.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11138WAK026	05/21/2011 05:39	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11138WAL026	05/19/2011 23:06	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11138WAK026	05/19/2011 10:00	Cynthia J Salvatori	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11138WAL026	05/19/2011 10:00	Cynthia J Salvatori	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111430020A	05/24/2011 22:55	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111440010A	05/27/2011 18:48	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111380016A	05/20/2011 22:00	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111380016A	05/19/2011 02:00	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111440010A	05/24/2011 14:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111430020A	05/23/2011 20:00	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
08014	Boron	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01750	Calcium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01754	Iron	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01756	Lithium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
07058	Manganese	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01762	Potassium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
01767	Sodium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
08068	Strontium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
07069	Tin	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
07070	Titanium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111381848002	05/19/2011 18:58	John P Hook	1
06024	Antimony	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111386050002D	05/20/2011 11:43	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111386050002C	05/20/2011 11:43	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111386050002B	05/20/2011 11:43	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111386050002A	05/20/2011 11:43	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111385713002	05/19/2011 09:32	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111381848002	05/19/2011 09:10	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111386050002	05/19/2011 09:08	Denise K Conners	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290770
LLI Group # 1247434
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/16/2011 12:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-01 SDG#: DE152-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	111385713002	05/19/2011 04:30	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11139196902B	05/20/2011 08:03	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 14:25	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11138196401B	05/18/2011 10:55	Parker D Lindstrom	1
00200	18b pH by 9040B	SW-846 9040B	1	11138020001A	05/18/2011 22:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11138WAK026	Sample number(s): 6290770									
Aniline	1	U	1.	5	ug/l	86	83	49-101	3	30
Benzidine	20	U	20.	60	ug/l	77	81	34-117	5	30
Benzoic acid	6	U	6.	15	ug/l	32	23	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	93	85	66-97	9	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	102	102	82-117	0	30
Carbazole	1	U	1.	5	ug/l	102	103	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	103	101	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	89	95	42-124	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	96	99	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	95	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	87	89	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	95	95	54-132	0	30
2-Chlorophenol	1	U	1.	5	ug/l	96	93	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	104	105	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	100	99	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	88	89	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	87	87	50-119	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	87	87	53-119	1	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	79	84	49-111	5	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	104	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	97	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	102	103	70-130	1	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	109	111	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	89	94	52-131	5	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	104	106	81-115	2	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	99	101	85-115	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	93	93	78-116	0	30
Hexachlorobenzene	1	U	1.	5	ug/l	110	109	81-118	1	30
Hexachlorobutadiene	1	U	1.	5	ug/l	95	96	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	67	70	36-118	5	30
Hexachloroethane	1	U	1.	5	ug/l	78	79	52-113	1	30
Isophorone	1	U	1.	5	ug/l	97	101	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	93	88	64-101	6	30
4-Methylphenol	2	U	2.	5	ug/l	80	76	61-103	5	30
2-Nitroaniline	1	U	1.	5	ug/l	98	100	83-116	3	30
3-Nitroaniline	1	U	1.	5	ug/l	99	102	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	89	90	59-100	1	30
Nitrobenzene	1	U	1.	5	ug/l	97	99	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	102	104	86-120	2	30
4-Nitrophenol	10	U	10.	30	ug/l	33	26	16-78	26	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	91	69-110	2	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	92	93	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	88	88	53-110	1	30
Phenol	1	U	1.	5	ug/l	49	44	21-67	10	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	101	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	100	99	79-107	0	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	98	99	81-113	1	30
Batch number: 11138WAL026	Sample number(s): 6290770									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	104	74-109	5	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	95	100	70-110	5	30
Anthracene	0.010	U	0.010	0.050	ug/l	102	106	66-111	5	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	105	110	72-114	5	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	108	114	60-127	5	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	124*	127*	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	105	112	57-131	6	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	108	114	59-130	5	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	96	100	40-138	4	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	96	101	74-131	5	30
Chrysene	0.010	U	0.010	0.050	ug/l	104	108	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	108	115	55-134	6	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	101	105	57-134	5	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	96	101	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	104	106	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	107	111	75-116	3	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	107	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	107	114	69-124	6	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	102	105	71-117	3	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	94	75-115	3	30
Naphthalene	0.030	U	0.030	0.050	ug/l	96	100	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	50	52	36-89	5	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	107	106	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	100	103	76-111	3	30
Pyrene	0.010	U	0.010	0.050	ug/l	99	103	69-118	4	30
Batch number: 11139SLL026	Sample number(s): 6290752-6290758,6290760-6290769									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	94		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	101		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	113		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	97		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	113		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	113		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	103		56-121		
Batch number: 11139SLM026	Sample number(s): 6290752-6290758,6290760-6290769									
Acenaphthene	17	U	17.	170	ug/kg	92		76-111		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	17	U	17.	170	ug/kg	98		75-122		
Aniline	170	U	170.	500	ug/kg	77		34-94		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200	U	1,200.	3,300	ug/kg	56		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	95		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	109		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	106		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	110		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	110		67-125		
Benzoic acid	170	U	170.	500	ug/kg	103		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	110		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	96		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	77		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	89		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	100		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	112		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	71		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	93		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	81		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	102		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	96		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	87		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
Naphthalene	17	U	17.	170	ug/kg	91		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	96		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	113		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	87		58-112		
Pyrene	17	U	17.	170	ug/kg	105		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	93		78-111		
Batch number: 11146SLE026	Sample number(s): 6290754-6290755									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 111450004A	Sample number(s): 6290754-6290755,6290760,6290763-6290769									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100	U	100.	300	ug/kg	101		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	132*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	97		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	106		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800	U	800.	2,400	ug/kg	123*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	72		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111400002A	Sample number(s): 6290754-6290755									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	92		80-126		
Batch number: 111390017A	Sample number(s): 6290752-6290758,6290760-6290769									
2,4-D	1.2	U	1.2	3.6	ug/kg	98		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	66		11-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-DB	0.62	U	0.62	1.7	ug/kg	105		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	77		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	14		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	114		62-170		
MCPA	76	U	76.	250	ug/kg	80		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	73		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	76		68-114		
Batch number: 111430020A	Sample number(s): 6290770									
2,4-D	0.16	U	0.16	0.50	ug/l	104	92	73-157	12	30
Dalapon	0.25	U	0.25	1.3	ug/l	75	71	40-100	4	30
2,4-DB	0.30	U	0.30	1.0	ug/l	108	104	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	48*	52*	68-135	8	30
Dinoseb	0.10	U	0.10	0.50	ug/l	86	42	32-91	69*	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	124	76-170	0	30
MCPA	300 U		300.	1,000	ug/l	90	84	65-128	7	30
MCPP	50	U	50.	200	ug/l	88	88	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	116	104	63-147	11	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	112	112	63-134	0	30
Batch number: 111390003A	Sample number(s): 6290754									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		70-130		
Batch number: 111380016A	Sample number(s): 6290770									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	88*	94*	35-84	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	104	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	82	100	56-135	20	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111400005A	Sample number(s): 6290752-6290758,6290760-6290769									
Aldrin	0.066	U	0.066	0.17	ug/kg	70		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	94		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	100		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	137		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	94		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	114		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	91		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	99		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	94		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	86		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	103		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	105		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	102		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	112		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	85		65-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.34	U	0.34	1.7	ug/kg	119		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111400007A	Sample number(s): 6290752-6290758,6290760-6290769									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	100	36-106	16	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	112		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	123		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111440010A	Sample number(s): 6290770									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	73-147	9	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	115	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	116	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	105	105	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	124	113	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	110	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	92	89	68-128	3	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	105	100	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	120	110	71-142	9	30
Endrin	0.0081	U	0.0081	0.020	ug/l	110	100	52-132	10	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	120	115	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	115	115	69-146	0	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	110	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	110	100	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111380034A	Sample number(s): 6290754-6290755									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	80		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	82		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	75		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	67		54-107		
Batch number: 111390030A	Sample number(s): 6290754-6290755									
Ethanol	100	U	100.	500	ug/kg	93		71-129		
Isopropanol	100	U	100.	500	ug/kg	92		75-125		
Methanol	100	U	100.	500	ug/kg	97		68-129		
Batch number: 111430018A	Sample number(s): 6290754-6290755									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Batch number: 111430017A	Sample number(s): 6290754-6290755									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
Batch number: 111381026001A	Sample number(s): 6290752-6290768									
Antimony	0.0600	U	0.0600	0.200	mg/kg	144		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	97		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	107		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	98		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	101		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	99		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	98		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	100		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	97		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	97		81-112		
Batch number: 111381026001B	Sample number(s): 6290752-6290768									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		83-111		
Batch number: 111381026001C	Sample number(s): 6290752-6290768									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		78-122		
Batch number: 111381026001D	Sample number(s): 6290752-6290768									
Barium	0.108	U	0.108	0.400	mg/kg	99		81-111		
Batch number: 111381848002	Sample number(s): 6290770									
Aluminum	0.0834	U	0.0834	0.200	mg/l	99	96	90-112	3	20
Boron	0.0181	J	0.0138	0.0500	mg/l	98	96	89-110	2	20
Calcium	0.0702	U	0.0702	0.200	mg/l	110	109	90-112	1	20
Iron	0.0522	U	0.0522	0.200	mg/l	111	108	90-112	3	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	100	99	80-120	1	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	101	100	89-110	1	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	106	103	90-110	3	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239	U	0.239	0.500	mg/l	98	96	85-115	2	20
Sodium	0.433	U	0.433	1.00	mg/l	98	97	87-114	1	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	104	102	90-110	2	20
Tin	0.0098	U	0.0098	0.0200	mg/l	102	99	90-110	2	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	104	102	90-113	3	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	103	102	80-120	1	20
Batch number: 111385708003	Sample number(s): 6290752-6290768									
Aluminum	5.03	U	5.03	20.0	mg/kg	86		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	97		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	104		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.41	J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	96		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.66 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	104		80-120		
Batch number: 111385711005	Sample number(s): 6290752-6290768								
Mercury	0.0028 U	0.0028	0.0990	mg/kg	96		88-123		
Batch number: 111385713002	Sample number(s): 6290770								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	103	103	80-120	1	20
Batch number: 111386050002A	Sample number(s): 6290770								
Antimony	0.00030 U	0.00030	0.0010	mg/l	101	95	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	102	105	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	104	104	90-112	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	107	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	96	100	87-113	4	20
Copper	0.00038 U	0.00038	0.0020	mg/l	97	101	90-113	5	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	101	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	108	90-113	5	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	105	90-115	5	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	107	89-116	10	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	99	105	89-116	6	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	95	104	90-116	10	20
Batch number: 111386050002B	Sample number(s): 6290770								
Selenium	0.00025 U	0.00025	0.0020	mg/l	104	107	85-114	3	20
Batch number: 111386050002C	Sample number(s): 6290770								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	103	89-115	6	20
Batch number: 111386050002D	Sample number(s): 6290770								
Barium	0.00053 U	0.00053	0.0020	mg/l	100	108	88-113	8	20
Batch number: 111391026001A	Sample number(s): 6290769								
Antimony	0.0600 U	0.0600	0.200	mg/kg	96		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	98		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	98		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	101		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	95		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	99		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	96		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	95		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	98		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	90		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	96		81-112		
Batch number: 111391026001B	Sample number(s): 6290769								
Selenium	0.0400 U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111391026001C	Sample number(s): 6290769								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	101		78-122		
Batch number: 111391026001D	Sample number(s): 6290769									
Barium	0.108	U	0.108	0.400	mg/kg	92		81-111		
Batch number: 111395708002	Sample number(s): 6290769									
Aluminum	5.03	U	5.03	20.0	mg/kg	85		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	100		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.29	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.65	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	82		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111395711001	Sample number(s): 6290769									
Mercury	0.0027	U	0.0027	0.0942	mg/kg	91		88-123		
Batch number: 11138196401B	Sample number(s): 6290770									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	102	96	90-110	7	20
Batch number: 11139196902B	Sample number(s): 6290770									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	96	96	90-110	0	20
Batch number: 11140243202A	Sample number(s): 6290752-6290757,6290759-6290769									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11143621201A	Sample number(s): 6290752-6290757,6290759-6290764									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11143621201B	Sample number(s): 6290765-6290769									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11143621202A	Sample number(s): 6290752-6290757,6290759-6290764									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11143621202B	Sample number(s): 6290765-6290769									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
Batch number: 11145102201A	Sample number(s): 6290754-6290755									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11154621701A	Sample number(s): 6290770									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11138020001A	Sample number(s): 6290770									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11143039402A	Sample number(s): 6290752-6290756,6290759-6290763									
18a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11143039402B	Sample number(s): 6290764-6290769								
18a pH by 9045C					100		95-105		
Batch number: 11144162401B	Sample number(s): 6290752-6290753,6290756-6290759,6290761-6290762								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401A	Sample number(s): 6290754-6290755,6290760,6290763-6290769								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11139SLL026	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
Acenaphthene	60*	85	63-105	31*	30				
Acenaphthylene	58*	95	67-114	47*	30				
Anthracene	60	92	60-122	36*	30				
Benzo(a)anthracene	72	63	59-128	8	30				
Benzo(a)pyrene	72	61	45-138	8	30				
Benzo(b)fluoranthene	65	57	43-155	5	30				
Benzo(g,h,i)perylene	25*	23*	33-141	5	30				
Benzo(k)fluoranthene	69	100	42-144	23	30				
Butylbenzylphthalate	125	174*	57-173	29	30				
Di-n-butylphthalate	71	128	65-148	58*	30				
Chrysene	71	47*	48-134	17	30				
Dibenz(a,h)anthracene	33	48	22-133	31*	30				
Diethylphthalate	73	103	70-136	34*	30				
Dimethylphthalate	45*	1501*	74-118	180*	30				
Bis(2-Ethylhexyl)phthalate	19*	104	39-167	72*	30				
Fluoranthene	110	8*	26-166	43*	30				
Fluorene	60*	93	66-122	41*	30				
Indeno(1,2,3-cd)pyrene	36	36	21-143	0	30				
1-Methylnaphthalene	57*	91	72-123	45*	30				
2-Methylnaphthalene	49*	82	64-103	49*	30				
Naphthalene	51*	87	61-102	49*	30				
N-Nitrosodimethylamine	76	90	48-113	17	30				
Di-n-octylphthalate	60	172	40-192	79*	30				
Phenanthrene	98	43	12-165	34*	30				
Pyrene	94	16	15-153	39*	30				
Batch number: 11139SLM026	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
Acenaphthene	99	91	75-115	9	30				
Acenaphthylene	103	93	81-110	10	30				
Aniline	76	75	35-95	3	30				
Anthracene	94	92	75-115	3	30				
Benzidine	0*	17*	35-141	200*	30				
Benzo(a)anthracene	96	93	65-122	4	30				
Benzo(a)pyrene	104	96	57-126	9	30				
Benzo(b)fluoranthene	104	103	59-125	2	30				

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Quality Control Summary

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Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(g,h,i)perylene	82	82	59-127	1	30				
Benzo(k)fluoranthene	105	100	56-132	6	30				
Benzoic acid	43	62	10-173	35*	30				
Benzyl alcohol	105	98	67-115	8	30				
4-Bromophenyl-phenylether	96	93	67-129	3	30				
Butylbenzylphthalate	109	110	73-134	0	30				
Di-n-butylphthalate	89	90	67-123	1	30				
Carbazole	89	91	64-120	2	30				
4-Chloro-3-methylphenol	106	96	76-110	10	30				
4-Chloroaniline	63	74	23-95	16	30				
bis(2-Chloroethoxy)methane	95	91	75-104	5	30				
bis(2-Chloroethyl)ether	102	91	60-116	12	30				
bis(2-Chloroisopropyl)ether	104	94	55-142	10	30				
2-Chloronaphthalene	79	70	50-141	12	30				
2-Chlorophenol	99	93	73-121	7	30				
4-Chlorophenyl-phenylether	95	88	80-109	7	30				
Chrysene	99	94	62-128	5	30				
Dibenz(a,h)anthracene	90	87	65-125	3	30				
Dibenzofuran	101	92	71-112	10	30				
1,2-Dichlorobenzene	95	85	66-108	12	30				
1,3-Dichlorobenzene	93	79	63-109	17	30				
1,4-Dichlorobenzene	93	82	70-100	13	30				
3,3'-Dichlorobenzidine	62	79	16-119	23	30				
2,4-Dichlorophenol	102	96	78-117	6	30				
Diethylphthalate	100	94	66-118	7	30				
2,4-Dimethylphenol	103	98	78-110	5	30				
3,5-Dimethylphenol	103	98	70-130	5	30				
Dimethylphthalate	99	95	64-118	4	30				
4,6-Dinitro-2-methylphenol	63	85	24-116	29	30				
2,4-Dinitrophenol	41	68	20-143	49*	30				
2,4-Dinitrotoluene	106	97	73-113	9	30				
2,6-Dinitrotoluene	100	101	69-123	0	30				
1,2-Diphenylhydrazine	102	100	71-129	2	30				
bis(2-Ethylhexyl)phthalate	108	102	63-122	6	30				
Fluoranthene	83	84	73-112	1	30				
Fluorene	102	92	77-111	10	30				
Hexachlorobenzene	94	83	77-114	13	30				
Hexachlorobutadiene	94	83	62-120	13	30				
Hexachlorocyclopentadiene	86	56	10-153	42*	30				
Hexachloroethane	95	81	57-109	16	30				
Indeno(1,2,3-cd)pyrene	88	83	61-126	6	30				
Isophorone	98	95	73-102	4	30				
1-Methylnaphthalene	104	94	73-112	10	30				
2-Methylnaphthalene	95	87	76-114	9	30				
2-Methylphenol	102	94	75-111	9	30				
4-Methylphenol	100	92	71-111	8	30				
Naphthalene	95	88	72-116	8	30				
2-Nitroaniline	106	97	67-125	9	30				
3-Nitroaniline	96	93	59-122	4	30				
4-Nitroaniline	94	86	52-112	9	30				
Nitrobenzene	98	94	72-106	4	30				
2-Nitrophenol	98	94	74-115	4	30				
4-Nitrophenol	97	87	54-113	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitroso-di-n-propylamine	105	95	60-116	10	30				
N-Nitrosodimethylamine	81	72	47-116	13	30				
N-Nitrosodiphenylamine	99	97	86-145	2	30				
Di-n-octylphthalate	124	122	56-126	2	30				
Pentachlorophenol	73	73	28-127	0	30				
Phenanthrene	94	93	65-125	2	30				
Phenol	97	87	58-126	11	30				
Pyrene	99	102	74-126	3	30				
1,2,4-Trichlorobenzene	92	87	72-115	6	30				
2,4,5-Trichlorophenol	98	90	78-109	8	30				
2,4,6-Trichlorophenol	99	93	77-115	7	30				
Batch number: 11146SLE026	Sample number(s): 6290754-6290755 UNSPK: P296047								
N-Nitrosodimethylamine	24*	24*	70-130	1	30				
Batch number: 111450004A	Sample number(s): 6290754-6290755,6290760,6290763-6290769 UNSPK: 6290754								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	113	113	80-137	0	50				
1,3-Dinitrobenzene	117	117	38-166	0	50				
2,4-Dinitrotoluene	107	107	80-131	0	50				
2,6-Dinitrotoluene	106	106	80-127	0	50				
HMX	99	99	63-128	0	50				
Nitrobenzene	128*	128*	80-125	0	50				
Nitroglycerin	106	106	80-120	0	50				
2-Nitrotoluene	105	105	80-122	1	50				
3-Nitrotoluene	107	107	72-119	0	50				
4-Nitrotoluene	104	104	80-125	0	50				
PETN	126*	125*	80-121	1	50				
RDX	96	97	75-129	1	50				
Tetryl	74	73	55-174	0	50				
1,3,5-Trinitrobenzene	107	106	82-126	0	50				
2,4,6-Trinitrotoluene	108	107	82-130	0	50				
Batch number: 111400002A	Sample number(s): 6290754-6290755 UNSPK: P291999								
25a Formaldehyde 8315A	90	89	80-120	1	50				
Batch number: 111390017A	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
2,4-D	108	102	17-180	5	35				
Dalapon	57	78	10-125	31	50				
2,4-DB	154	96	10-201	38	50				
Dicamba	117	117	10-190	0	50				
Dinoseb	18	22	10-46	20	35				
2,4-DP (Dichlorprop)	120	108	33-178	10	50				
MCPA	166	155	10-213	7	50				
MCPP (Mecoprop)	103	83	10-184	21	50				
2,4,5-T	98	113	10-156	15	35				
2,4,5-TP	82	120	24-141	38*	35				
Batch number: 111390003A	Sample number(s): 6290754 UNSPK: P285036								
6a Perchlorate EPA 6850	100	102	80-120	2	20				
Batch number: 111400005A	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
Aldrin	67	45	16-126	38	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Alpha BHC	92	56	10-129	43	50				
Beta BHC	144	0*	14-147	200*	50				
Gamma BHC - Lindane	121	88	10-140	32	50				
p,p-DDD	130	67	16-163	64*	50				
p,p-DDE	131	95	18-161	31	50				
p,p-DDT	210*	178*	10-176	17	50				
Delta BHC	116	53	23-140	47	50				
Dieldrin	99	40	19-154	84*	50				
Endosulfan I	48	29	16-137	50	50				
Endosulfan II	74	42	28-154	56*	50				
Endosulfan Sulfate	80	71	21-160	12	50				
Endrin	87	48	11-149	58*	50				
Endrin Aldehyde	76	79	10-148	4	35				
Endrin Ketone	59	62	22-165	5	50				
Heptachlor	106	67	13-126	46	50				
Heptachlor Epoxide	85	61	13-157	33	50				
Methoxychlor	96	56	32-147	53*	50				
Batch number: 111400007A	Sample number(s): 6290752-6290758,6290760-6290769 UNSPK: 6290756								
PCB-1016	101	118	29-146	16	50				
PCB-1260	87	109	39-149	18	50				
Batch number: 111380034A	Sample number(s): 6290754-6290755 UNSPK: P281100								
EFH (C12-C14)	70	73	49-123	3	20				
EFH (C15-C20)	86	90	49-123	3	20				
EFH (C21-C30)	101	104	49-123	2	20				
EFH (C30 - C40)	64	71	49-123	7	20				
EFH (C8-C11)	70	67	49-123	5	20				
Batch number: 111390030A	Sample number(s): 6290754-6290755 UNSPK: P291999								
Ethanol	42*	33*	48-130	24*	20				
Isopropanol	66	64	12-149	3	20				
Methanol	55	52	43-138	5	20				
Batch number: 111430018A	Sample number(s): 6290754-6290755 UNSPK: P291999								
Diethylene glycol	36*	56*	59-109	45*	20				
Ethylene glycol	44*	71	63-107	47*	20				
Propylene glycol	48*	77	63-107	45*	20				
Batch number: 111430017A	Sample number(s): 6290754-6290755 UNSPK: P291999								
m-Terphenyl	63*	62*	75-125	2	20				
o-Terphenyl	92	95	75-125	3	20				
p-Terphenyl	83	80	75-125	4	20				
Batch number: 111381026001A	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Antimony	29*	32*	75-125	2	20	0.806	0.274	98* (1)	20
Arsenic	117	162*	75-125	10	20	5.35	4.39	20	20
Beryllium	103	102	75-125	1	20	0.650	0.484	29*	20
Cadmium	111	127*	75-125	10	20	0.275	0.228	19 (1)	20
Chromium	114	142*	75-125	7	20	25.1	22.0	13	20
Cobalt	112	128*	75-125	10	20	9.00	7.07	24*	20
Copper	121	153*	75-125	10	20	15.9	12.2	26*	20
Lead	81	153*	75-125	14	20	11.4	13.8	19	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nickel	133*	160*	75-125	8	20	17.7	13.6	26*	20
Silver	120	126*	75-125	4	20	0.0313 J	0.0298 J	5 (1)	20
Thallium	121	127*	75-125	3	20	0.266	0.260	2 (1)	20
Vanadium	98 (2)	166 (2)	75-125	10	20	51.1	40.7	23*	20
Zinc	83 (2)	372 (2)	75-125	17	20	137	103	28*	20
Batch number: 111381026001B	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Selenium	110	119	75-125	7	20	0.187 J	0.141 J	28* (1)	20
Batch number: 111381026001C	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Molybdenum	118	130*	75-125	8	20	0.586	0.420	33* (1)	20
Batch number: 111381026001D	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Barium	54 (2)	364 (2)	75-125	23*	20	112	81.8	31*	20
Batch number: 111385708003	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Aluminum	3024 (2)	3328 (2)	75-125	3	20	17,500	17,200	2	20
Boron	99	99	84-115	0	20	18.0	18.2	1 (1)	20
Calcium	-338 (2)	889 (2)	75-125	19	20	25,100	24,600	2	20
Iron	2835 (2)	2878 (2)	75-125	0	20	23,500	25,400	8	20
Lithium	107	107	82-114	0	20	17.6	17.9	2	20
Magnesium	465 (2)	597 (2)	75-125	4	20	5,140	5,220	2	20
Manganese	137 (2)	172 (2)	75-125	5	20	300	340	13	20
Phosphorus	4 (2)	29 (2)	75-125	4	20	567	472	18	20
Potassium	188*	203*	75-125	3	20	3,880	4,000	3	20
Sodium	100	106	75-125	5	20	111	98.2 J	12 (1)	20
Strontium	98	107	75-115	6	20	54.8	54.6	0	20
Tin	88	87	80-110	1	20	2.42 J	2.43 J	0 (1)	20
Titanium	457 (2)	453 (2)	75-125	0	20	944	931	1	20
Zirconium	92	92	75-125	0	20	2.46 J	2.87 J	15 (1)	20
Batch number: 111385711005	Sample number(s): 6290752-6290768 UNSPK: 6290756 BKG: 6290756								
Mercury	98	90	65-135	6	20	0.0029 U	0.0028 U	0 (1)	20
Batch number: 111391026001A	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Antimony	46*	63*	75-125	25*	20	0.170 J	0.157 J	8 (1)	20
Arsenic	165*	213*	75-125	12	20	4.09	4.62	12	20
Beryllium	126*	142*	75-125	8	20	0.580	0.524	10	20
Cadmium	126*	130*	75-125	2	20	0.231	0.186	22* (1)	20
Chromium	127*	146*	75-125	6	20	18.8	17.0	11	20
Cobalt	117	146*	75-125	20	20	6.77	7.41	9	20
Copper	125	150*	75-125	10	20	11.5	9.84	16	20
Lead	238 (2)	330 (2)	75-125	13	20	13.0	10.4	22*	20
Nickel	130*	170*	75-125	14	20	12.9	11.4	13	20
Silver	123	131*	75-125	7	20	0.0345 J	0.0583 J	52* (1)	20
Thallium	104	129*	75-125	13	20	0.275	0.222	21* (1)	20
Vanadium	157*	209*	75-125	10	20	33.7	30.6	10	20
Zinc	150 (2)	268 (2)	75-125	15	20	58.3	51.6	12	20
Batch number: 111391026001B	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	109	119	75-125	9	20	0.148 J	0.109 J	30* (1)	20
Batch number: 111391026001C	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Molybdenum	114	125	75-125	9	20	0.523	0.547	4	20
Batch number: 111391026001D	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Barium	220 (2)	382 (2)	75-125	11	20	110	98.0	12	20
Batch number: 111395708002	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Aluminum	2046 (2)	1418 (2)	75-125	7	20	14,500	13,200	10	20
Boron	98	97	84-115	2	20	12.2	11.0	11 (1)	20
Calcium	349 (2)	46 (2)	75-125	27*	20	3,630	3,830	5	20
Iron	1062 (2)	257 (2)	75-125	4	20	20,000	18,600	7	20
Lithium	103	101	82-114	1	20	17.4	15.5	12	20
Magnesium	338 (2)	199 (2)	75-125	6	20	4,110	3,820	7	20
Manganese	169 (2)	121 (2)	75-125	8	20	234	250	7	20
Phosphorus	591*	156*	75-125	68*	20	255	256	0	20
Potassium	128*	134*	75-125	2	20	2,130	2,290	7	20
Sodium	106	100	75-125	5	20	77.7 J	80.4 J	3 (1)	20
Strontium	98	96	75-115	2	20	25.4	22.8	11	20
Tin	90	88	80-110	2	20	2.59 J	2.38 J	8 (1)	20
Titanium	243 (2)	324 (2)	75-125	7	20	907	914	1	20
Zirconium	98	97	75-125	0	20	0.977 J	1.84 J	61* (1)	20
Batch number: 111395711001	Sample number(s): 6290769 UNSPK: P285036 BKG: P285036								
Mercury	83	74	65-135	13	20	0.0029 U	0.0028 U	0 (1)	20
Batch number: 11140243202A	Sample number(s): 6290752-6290757,6290759-6290769 UNSPK: 6290756 BKG: 6290756								
3a Cr VI by EPA 7199	87		75-125			0.63 J	0.29 J	75* (1)	20
Batch number: 11143621201A	Sample number(s): 6290752-6290757,6290759-6290764 UNSPK: 6290756 BKG: 6290756								
7a Perchlorate EPA 314.0	90		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11143621201B	Sample number(s): 6290765-6290769 UNSPK: 6290765 BKG: 6290765								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11143621202A	Sample number(s): 6290752-6290757,6290759-6290764 UNSPK: 6290756 BKG: 6290756								
11a Anions by 300.0 - Fluoride	82		80-120			1.7	1.4	18 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			7.0	6.7	4 (1)	20
Batch number: 11143621202B	Sample number(s): 6290765-6290769 UNSPK: 6290765 BKG: 6290765								
11a Anions by 300.0 - Fluoride	60*		80-120			2.6	2.3	11 (1)	20
Batch number: 11145102201A	Sample number(s): 6290754-6290755 UNSPK: P291999 BKG: P291999								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11143039402A	Sample number(s): 6290752-6290756,6290759-6290763 BKG: 6290756								
18a pH by 9045C						7.96	8.00	1	3
Batch number: 11143039402B	Sample number(s): 6290764-6290769 BKG: P290803								
18a pH by 9045C						8.48	8.52	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11144162401B	Sample number(s): 6290752-6290753,6290756-6290759,6290761-6290762							BKG:	6290756
28a Moisture Content by 160.3						10.5	10.6	1	20
Moisture Content by 160.3						10.5	10.6	1	20
Moisture Content by 160.3						10.5	10.6	1	20
Batch number: 11160162401A	Sample number(s): 6290754-6290755,6290760,6290763-6290769							BKG:	P288941
Moisture Content by 160.3						11.8	12.4	4	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11138WAK026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290770	51	30	105	86	85	74
Blank	49	34	111	88	87	74
LCS	60	44	108	89	88	78
LCSD	55	40	107	92	90	80
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11138WAL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290770	95	100	109
Blank	91	100	108
LCS	103	99	103
LCSD	107	103	106
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11139SLL026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290752	93	86	100
6290753	94	89	83
6290754	89	81	75
6290755	102	88	106
6290756	100	87	93
6290757	77	52	48
6290758	111	93	105
6290760	90	81	83
6290761	85	72	78
6290762	76	63	61

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290763	97	86	84
6290764	92	85	85
6290765	94	83	98
6290766	97	86	85
6290767	95	81	86
6290768	98	88	110
6290769	102	90	111
Blank	97	95	105
LCS	109	93	99
MS	77	52	48
MSD	111	93	105
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11139SLM026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290752	93	83	85	81	84	80
6290753	93	90	84	86	89	78
6290754	95	87	81	84	88	86
6290755	93	82	84	85	86	80
6290756	101	93	89	88	85	91
6290757	100	89	94	89	89	82
6290758	90	82	83	85	84	82
6290760	85	75	90	78	81	85
6290761	88	80	83	86	84	81
6290762	92	84	87	86	86	82
6290763	97	84	84	90	91	88
6290764	91	80	91	87	90	86
6290765	90	82	94	89	91	89
6290766	91	82	88	86	84	77
6290767	93	78	86	83	83	85
6290768	95	82	82	82	77	67
6290769	93	82	91	91	90	83
Blank	85	81	84	78	84	85
LCS	90	85	85	84	86	88
MS	100	89	94	89	89	82
MSD	90	82	83	85	84	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLE026

	N-Nitrosodimethylamine-d6
6290754	96
6290755	113
Blank	91
LCS	104
MS	164*
MSD	143
Limits:	50-150

Analysis Name: 8b PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

Batch number: 111380016A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290770	123	83
Blank	118	64
LCS	89	57
LCSD	113	81
Limits:	30-150	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111390017A

	2,4-Dichlorophenylacetic acid
6290752	147
6290753	165*
6290754	158*
6290755	149
6290756	122
6290757	160*
6290758	192*
6290760	151
6290761	55
6290762	62
6290763	74
6290764	52
6290765	168*
6290766	206*
6290767	141
6290768	148
6290769	186*
Blank	64
LCS	121
MS	160*
MSD	192*
Limits:	36-156

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111400002A

	Butyraldehyde
6290754	120
6290755	122
Blank	125
LCS	119
MS	112
MSD	116
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 111400005A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290752	85	91

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290753	74	369*
6290754	89	131*
6290755	78	189*
6290756	72	105
6290757	75	95
6290758	51	119
6290760	95	56
6290761	60	119
6290762	90	162*
6290763	94	97
6290764	81	108
6290765	100	138*
6290766	98	123*
6290767	55	70
6290768	91	151*
6290769	93	145*
Blank	87	108
LCS	72	101
MS	75	95
MSD	51	119
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111400007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290752	126	101
6290753	123	89
6290754	98	80
6290755	120	94
6290756	116	83
6290757	120	87
6290758	144*	98
6290760	128	102
6290761	87	70
6290762	127	104
6290763	118	92
6290764	130	103
6290765	110	88
6290766	139	109
6290767	108	84
6290768	125	105
6290769	118	94
Blank	118	118
LCS	123	126*
LCSD	122	126*
MS	120	87
MSD	144*	98
Limits:	53-139	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111430020A

	2,4-Dichlorophenylacetic acid

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290770	91
Blank	91
LCS	103
LCSD	102
Limits:	35-144

Analysis Name: 12b Pesticides by 8081A
Batch number: 111440010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290770	112	106
Blank	112	94
LCS	108	96
LCSD	108	100
Limits:	52-141	40-144

Analysis Name: 16a Energetics by 8330A
Batch number: 111450004A

	2-Nitro-m-xylene
6290754	122
6290755	122
6290760	119
6290763	124
6290764	121
6290765	125
6290766	119
6290767	126
6290768	113
6290769	123
Blank	136
LCS	123
LCSD	32*
MS	115
MSD	116
Limits:	80-146

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111380034A

	Chlorobenzene	Orthoterphenyl
6290754	63	74
6290755	63	79
Blank	73	78
LCS	81	83
MS	66	75
MSD	67	76
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111390030A

	Acetone

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247434
Reported: 06/16/11 at 12:13 PM

Surrogate Quality Control

6290754	66
6290755	67
Blank	84
LCS	83
MS	77
MSD	77
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111430017A

n-Triacontane-d62

6290754	96
6290755	49*
Blank	89
LCS	87
MS	115
MSD	74
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111430018A

Tetramethylene glycol

6290754	72
6290755	79
Blank	90
LCS	96
MS	78
MSD	77
Limits:	29-137

*- Outside of specification
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13013 1247434 6290752-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&/471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-SS sleeve			X	X																	
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-SS sleeve			X	X																	
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	1-SS sleeve			X	X																	
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	1-SS sleeve			X	X																	
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	1-SS sleeve			X	X																	
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

13013 1247434 G290752-70

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	VOCs: 1,4-Dioxane EPA 8260SIM $	VOCs: TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA5DN-SB-6.0	05.17.11	1154	SOIL	NONE	4-Encores										X	X											
SL-001-SA5DN-SB-5.5-6.5	05.17.11	1204	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-001-SA5DN-SB-9.0-10.0	05.17.11	1158	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-4.5	05.17.11	0958	SOIL	NONE	4-Encores										X	X											
SL-005-SA5DN-SB-4.0-5.0	05.17.11	1004	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-9.0-10.0	05.17.11	1008	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-4.5	05.17.11	1605	SOIL	NONE	4-Encores										X	X											
SL-068-SA5DN-SB-4.0-5.0	05.17.11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-9.0-10.0	05.17.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-4.5	05.17.11	1515	SOIL	NONE	4-Encores										X	X											
SL-073-SA5DN-SB-4.0-5.0	05.17.11	1519	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-9.0-10.0	05.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-051711	05.17.11	1700	WATER	HCl	4-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 05/17/2011 / 1700

Received for Laboratory by: (*Signature*) 5/18/11 920

Received by: (*Signature*) — Date/Time

Airbill No(s)
8695 1441 7799; 8695 1441 7803
8695 1441 7814; 8695 1441 7825

Laboratory:
Lancaster Laboratories, Inc.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, May 17, 2011 8:38 PM
To: Nicole Maljovec; SA Env Entry
Subject: FW: The COC for 5/17/2011
Attachments: COC 05 17 11.xlsx

Is attached. Please note that this copy of the COC indicates samples to be run for the Perchlorate confirmation which are not indicated on the hard copy sent with the samples.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

13013 1247434 6290752-70

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-SS sleeve			X	X																	
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-SS sleeve			X	X																	
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X					X					
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	1-SS sleeve			X	X																	
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	1-SS sleeve			X	X																	
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	1-SS sleeve			X	X																	
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

13013 1247434 6290752-70

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	NONE	7-1 liter ambers			X	X	X				X	X	
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	HNO3	1 - 500 mL poly	X										
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	NONE	1 - 500 mL poly		X				X	X	X			
Relinquished by: (*Signature*)	Date/Time 05/17/2011 / 1700		Received for Laboratory by: (*Signature*) 5/18/11 920													Laboratory: Lancaster Laboratories, Inc.	
Received by: (*Signature*)	Date/Time		Airbill No(s) 8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7814														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/18/2011
Group Number: 1247437
SDG: DX082
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-254-SA5A-SS-0.0-0.5 Soil	6290784
DUP-01-SA5DN-QC-051711 Soil	6290785
SL-066-SA5DN-SS-0.0-0.5 Soil	6290786
SL-067-SA5DN-SS-0.0-0.5 Soil	6290787
SL-072-SA5DN-SS-0.0-0.5 Soil	6290788
SL-072-SA5DN-SS-0.0-0.5MS Soil	6290789
SL-072-SA5DN-SS-0.0-0.5MSD Soil	6290790
SL-074-SA5DN-SS-0.0-0.5 Soil	6290791
SL-075-SA5DN-SS-0.0-0.5 Soil	6290792
SL-076-SA5DN-SS-0.0-0.5 Soil	6290793
SL-079-SA5DN-SS-0.0-0.5 Soil	6290794
SL-080-SA5DN-SS-0.0-0.5 Soil	6290795
SL-081-SA5DN-SS-0.0-0.5 Soil	6290796
SL-082-SA5DN-SS-0.0-0.5 Soil	6290797
SL-083-SA5DN-SS-0.0-0.5 Soil	6290798
SL-084-SA5DN-SS-0.0-0.5 Soil	6290799
SL-206-SA5DN-SS-0.0-0.5 Soil	6290800
EB01-SA5DN-SS-051711 Water	6290801

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

COPY TO
ELECTRONIC Data Package Group
COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290784
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2540 SDG#: DX082-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290784
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2540 SDG#: DX082-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	13.6	B	0.0423	5.12	1
11031	1234678-HpCDF	67562-39-4	2.36	JB	0.0157	5.12	1
11031	1234789-HpCDF	55673-89-7	0.230	JBQ	0.0220	5.12	1
11031	123478-HxCDD	39227-28-6	0.281	JBQ	0.0378	5.12	1
11031	123478-HxCDF	70648-26-9	0.642	JB	0.0373	5.12	1
11031	123678-HxCDD	57653-85-7	0.707	JB	0.0389	5.12	1
11031	123678-HxCDF	57117-44-9	0.221	JB	0.0330	5.12	1
11031	123789-HxCDD	19408-74-3	0.767	JB	0.0383	5.12	1
11031	123789-HxCDF	72918-21-9	0.276	JB	0.0367	5.12	1
11031	12378-PeCDD	40321-76-4	0.199	JB	0.0340	5.12	1
11031	12378-PeCDF	57117-41-6	0.148	JB	0.0323	5.12	1
11031	234678-HxCDF	60851-34-5	0.332	JB	0.0330	5.12	1
11031	23478-PeCDF	57117-31-4	0.651	JB	0.0312	5.12	1
11031	2378-TCDD	1746-01-6	0.217	J	0.0206	1.02	1
11031	2378-TCDF	51207-31-9	0.219	JQ	0.0539	1.02	1
11031	OCDD	3268-87-9	194	B	0.0406	10.2	1
11031	OCDF	39001-02-0	7.17	JB	0.0361	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290784
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2540 SDG#: DX082-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-254-SA5A-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-254-SA5A-SS-0.0-0.5

LLI Sample # SW 6290784
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/16/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D2540 SDG#: DX082-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 06:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290785
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX082-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290785
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX082-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	140	B	0.119	5.44	1
11031	1234678-HpCDF	67562-39-4	27.4	B	0.0563	5.44	1
11031	1234789-HpCDF	55673-89-7	1.55	JB	0.0606	5.44	1
11031	123478-HxCDD	39227-28-6	2.29	JB	0.0593	5.44	1
11031	123478-HxCDF	70648-26-9	2.00	JB	0.0612	5.44	1
11031	123678-HxCDD	57653-85-7	4.96	JB	0.0600	5.44	1
11031	123678-HxCDF	57117-44-9	1.34	JB	0.0548	5.44	1
11031	123789-HxCDD	19408-74-3	3.53	JB	0.0591	5.44	1
11031	123789-HxCDF	72918-21-9	1.08	JB	0.0525	5.44	1
11031	12378-PeCDD	40321-76-4	0.995	JB	0.0439	5.44	1
11031	12378-PeCDF	57117-41-6	0.711	JBQ	0.0377	5.44	1
11031	234678-HxCDF	60851-34-5	1.21	JB	0.0465	5.44	1
11031	23478-PeCDF	57117-31-4	0.965	JB	0.0365	5.44	1
11031	2378-TCDD	1746-01-6	0.112	JQ	0.0204	1.09	1
11031	2378-TCDF	51207-31-9	0.249	J	0.0724	1.09	1
11031	OCDD	3268-87-9	2,150	B	0.160	10.9	1
11031	OCDF	39001-02-0	35.5	B	0.0505	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290785
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX082-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-01-SA5DN-QC-051711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-01-SA5DN-QC-051711

LLI Sample # SW 6290785
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX082-02FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 07:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290786
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD066 SDG#: DX082-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290786
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD066 SDG#: DX082-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	156	B	0.100	5.35	1
11031	1234678-HpCDF	67562-39-4	22.9	B	0.0438	5.35	1
11031	1234789-HpCDF	55673-89-7	2.32	JB	0.0514	5.35	1
11031	123478-HxCDD	39227-28-6	2.01	JB	0.0540	5.35	1
11031	123478-HxCDF	70648-26-9	1.44	JB	0.0487	5.35	1
11031	123678-HxCDD	57653-85-7	7.72	B	0.0556	5.35	1
11031	123678-HxCDF	57117-44-9	1.72	JB	0.0434	5.35	1
11031	123789-HxCDD	19408-74-3	5.77	B	0.0554	5.35	1
11031	123789-HxCDF	72918-21-9	2.39	JB	0.0410	5.35	1
11031	12378-PeCDD	40321-76-4	1.24	JBQ	0.0452	5.35	1
11031	12378-PeCDF	57117-41-6	0.553	JB	0.0384	5.35	1
11031	234678-HxCDF	60851-34-5	1.74	JB	0.0345	5.35	1
11031	23478-PeCDF	57117-31-4	1.13	JBQ	0.0372	5.35	1
11031	2378-TCDD	1746-01-6	0.290	JQ	0.0215	1.07	1
11031	2378-TCDF	51207-31-9	0.624	J	0.0689	1.07	1
11031	OCDD	3268-87-9	1,790	B	0.110	10.7	1
11031	OCDF	39001-02-0	47.8	B	0.0413	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290786
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD066 SDG#: DX082-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290786
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD066 SDG#: DX082-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 08:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290787
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD067 SDG#: DX082-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290787
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD067 SDG#: DX082-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	145	B	0.108	5.40	1
11031	1234678-HpCDF	67562-39-4	21.6	B	0.0580	5.40	1
11031	1234789-HpCDF	55673-89-7	1.79	JB	0.0604	5.40	1
11031	123478-HxCDD	39227-28-6	1.72	JB	0.0543	5.40	1
11031	123478-HxCDF	70648-26-9	2.08	JB	0.0710	5.40	1
11031	123678-HxCDD	57653-85-7	5.73	B	0.0547	5.40	1
11031	123678-HxCDF	57117-44-9	1.28	JB	0.0594	5.40	1
11031	123789-HxCDD	19408-74-3	4.37	JB	0.0518	5.40	1
11031	123789-HxCDF	72918-21-9	1.76	JB	0.0498	5.40	1
11031	12378-PeCDD	40321-76-4	1.03	JB	0.0558	5.40	1
11031	12378-PeCDF	57117-41-6	0.726	JB	0.0358	5.40	1
11031	234678-HxCDF	60851-34-5	1.38	JB	0.0403	5.40	1
11031	23478-PeCDF	57117-31-4	0.997	JB	0.0360	5.40	1
11031	2378-TCDD	1746-01-6	0.296	JQ	0.0211	1.08	1
11031	2378-TCDF	51207-31-9	0.758	J	0.0754	1.08	1
11031	OCDD	3268-87-9	2,370	B	0.148	10.8	1
11031	OCDF	39001-02-0	45.3	B	0.0431	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-067-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290787
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD067 SDG#: DX082-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290787
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:15

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD067 SDG#: DX082-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 09:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290788
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290788
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	112	B	0.160	5.51	1
11031	1234678-HpCDF	67562-39-4	19.0	B	0.0829	5.51	1
11031	1234789-HpCDF	55673-89-7	1.10	JB	0.0726	5.51	1
11031	123478-HxCDD	39227-28-6	2.42	JB	0.0818	5.51	1
11031	123478-HxCDF	70648-26-9	1.52	JB	0.0902	5.51	1
11031	123678-HxCDD	57653-85-7	4.53	JB	0.0853	5.51	1
11031	123678-HxCDF	57117-44-9	1.39	JB	0.0792	5.51	1
11031	123789-HxCDD	19408-74-3	3.36	JB	0.0812	5.51	1
11031	123789-HxCDF	72918-21-9	0.855	JB	0.0570	5.51	1
11031	12378-PeCDD	40321-76-4	1.23	JB	0.0543	5.51	1
11031	12378-PeCDF	57117-41-6	0.662	JB	0.0417	5.51	1
11031	234678-HxCDF	60851-34-5	1.02	JB	0.0482	5.51	1
11031	23478-PeCDF	57117-31-4	1.11	JB	0.0396	5.51	1
11031	2378-TCDD	1746-01-6	0.242	J	0.0269	1.10	1
11031	2378-TCDF	51207-31-9	0.483	J	0.0680	1.10	1
11031	OCDD	3268-87-9	1,480	B	0.209	11.0	1
11031	OCDF	39001-02-0	26.9	B	0.0578	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290788
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290788
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 10:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290789
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290789
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	245	B	0.137	5.53	1
11031	1234678-HpCDF	67562-39-4	136	B	0.0894	5.53	1
11031	1234789-HpCDF	55673-89-7	113	B	0.113	5.53	1
11031	123478-HxCDD	39227-28-6	110	B	0.0997	5.53	1
11031	123478-HxCDF	70648-26-9	115	B	0.0983	5.53	1
11031	123678-HxCDD	57653-85-7	115	B	0.103	5.53	1
11031	123678-HxCDF	57117-44-9	111	B	0.0892	5.53	1
11031	123789-HxCDD	19408-74-3	112	B	0.0988	5.53	1
11031	123789-HxCDF	72918-21-9	110	B	0.0977	5.53	1
11031	12378-PeCDD	40321-76-4	107	B	0.0691	5.53	1
11031	12378-PeCDF	57117-41-6	109	B	0.0543	5.53	1
11031	234678-HxCDF	60851-34-5	110	B	0.0834	5.53	1
11031	23478-PeCDF	57117-31-4	108	B	0.0527	5.53	1
11031	2378-TCDD	1746-01-6	22.0		0.0336	1.11	1
11031	2378-TCDF	51207-31-9	22.3		0.0879	1.11	1
11031	OCDD	3268-87-9	2,400	B	0.181	11.1	1
11031	OCDF	39001-02-0	265	B	0.0685	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290789
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290789
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 10:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290790
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290790
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	266	B	0.152	5.54	1
11031	1234678-HpCDF	67562-39-4	133	B	0.0741	5.54	1
11031	1234789-HpCDF	55673-89-7	111	B	0.0937	5.54	1
11031	123478-HxCDD	39227-28-6	113	B	0.0849	5.54	1
11031	123478-HxCDF	70648-26-9	112	B	0.0868	5.54	1
11031	123678-HxCDD	57653-85-7	113	B	0.0877	5.54	1
11031	123678-HxCDF	57117-44-9	112	B	0.0765	5.54	1
11031	123789-HxCDD	19408-74-3	113	B	0.0863	5.54	1
11031	123789-HxCDF	72918-21-9	109	B	0.0835	5.54	1
11031	12378-PeCDD	40321-76-4	109	B	0.0556	5.54	1
11031	12378-PeCDF	57117-41-6	109	B	0.0488	5.54	1
11031	234678-HxCDF	60851-34-5	113	B	0.0724	5.54	1
11031	23478-PeCDF	57117-31-4	110	B	0.0475	5.54	1
11031	2378-TCDD	1746-01-6	21.8		0.0313	1.11	1
11031	2378-TCDF	51207-31-9	22.5		0.0736	1.11	1
11031	OCDD	3268-87-9	2,750	B	0.162	11.1	1
11031	OCDF	39001-02-0	257	B	0.0754	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290790
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290790
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 08:40

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD072 SDG#: DX082-05MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 11:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290791
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX082-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290791
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX082-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	91.9	B	0.0964	5.33	1
11031	1234678-HpCDF	67562-39-4	28.3	B	0.0391	5.33	1
11031	1234789-HpCDF	55673-89-7	1.67	JB	0.0512	5.33	1
11031	123478-HxCDD	39227-28-6	1.04	JB	0.0572	5.33	1
11031	123478-HxCDF	70648-26-9	1.62	JB	0.0534	5.33	1
11031	123678-HxCDD	57653-85-7	4.05	JB	0.0605	5.33	1
11031	123678-HxCDF	57117-44-9	1.24	JB	0.0428	5.33	1
11031	123789-HxCDD	19408-74-3	2.92	JB	0.0600	5.33	1
11031	123789-HxCDF	72918-21-9	2.14	JB	0.0415	5.33	1
11031	12378-PeCDD	40321-76-4	0.911	JB	0.0436	5.33	1
11031	12378-PeCDF	57117-41-6	0.886	JBQ	0.0270	5.33	1
11031	234678-HxCDF	60851-34-5	1.37	JB	0.0370	5.33	1
11031	23478-PeCDF	57117-31-4	0.971	JB	0.0245	5.33	1
11031	2378-TCDD	1746-01-6	0.221	J	0.0215	1.07	1
11031	2378-TCDF	51207-31-9	0.362	JQ	0.0438	1.07	1
11031	OCDD	3268-87-9	1,510	B	0.0782	10.7	1
11031	OCDF	39001-02-0	76.9	B	0.0365	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	96	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290791
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX082-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290791
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:00

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD074 SDG#: DX082-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 19:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290792
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD075 SDG#: DX082-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290792
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD075 SDG#: DX082-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	42.7	B	0.0880	5.95	1
11031	1234678-HpCDF	67562-39-4	9.18	B	0.0618	5.95	1
11031	1234789-HpCDF	55673-89-7	0.728	JB	0.0412	5.95	1
11031	123478-HxCDD	39227-28-6	0.336	JB	0.0535	5.95	1
11031	123478-HxCDF	70648-26-9	1.14	JB	0.101	5.95	1
11031	123678-HxCDD	57653-85-7	2.25	JB	0.0548	5.95	1
11031	123678-HxCDF	57117-44-9	0.797	JB	0.0834	5.95	1
11031	123789-HxCDD	19408-74-3	1.96	JB	0.0499	5.95	1
11031	123789-HxCDF	72918-21-9	1.52	JB	0.0413	5.95	1
11031	12378-PeCDD	40321-76-4	0.320	JBQ	0.0396	5.95	1
11031	12378-PeCDF	57117-41-6	0.368	JB	0.0344	5.95	1
11031	234678-HxCDF	60851-34-5	0.598	JB	0.0350	5.95	1
11031	23478-PeCDF	57117-31-4	0.887	JBQ	0.0338	5.95	1
11031	2378-TCDD	1746-01-6	0.0396	JQ	0.0231	1.19	1
11031	2378-TCDF	51207-31-9	0.221	JQ	0.0544	1.19	1
11031	OCDD	3268-87-9	818	B	0.0819	11.9	1
11031	OCDF	39001-02-0	19.8	B	0.0335	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	35	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	91	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290792
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD075 SDG#: DX082-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290792
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD075 SDG#: DX082-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 20:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290793
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD076 SDG#: DX082-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290793
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD076 SDG#: DX082-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.258	JBQ	0.0234	1.08	1
11031	12378-PeCDD	40321-76-4	0.953	JB	0.0569	5.38	1
11031	123478-HxCDD	39227-28-6	1.66	JB	0.0719	5.38	1
11031	123678-HxCDD	57653-85-7	5.23	JB	0.0768	5.38	1
11031	123789-HxCDD	19408-74-3	4.12	JB	0.0719	5.38	1
11031	1234678-HpCDD	35822-46-9	158	B	0.149	5.38	1
11031	OCDD	3268-87-9	2,820	B	0.151	10.8	1
11031	2378-TCDF	51207-31-9	0.262	JBQ	0.0612	1.08	1
11031	12378-PeCDF	57117-41-6	0.460	JB	0.0315	5.38	1
11031	23478-PeCDF	57117-31-4	0.729	JB	0.0303	5.38	1
11031	123478-HxCDF	70648-26-9	1.11	JB	0.0547	5.38	1
11031	123678-HxCDF	57117-44-9	0.682	JB	0.0525	5.38	1
11031	123789-HxCDF	72918-21-9	1.23	JB	0.0481	5.38	1
11031	234678-HxCDF	60851-34-5	0.753	JB	0.0457	5.38	1
11031	1234678-HpCDF	67562-39-4	15.1	B	0.0475	5.38	1
11031	1234789-HpCDF	55673-89-7	1.06	JB	0.0533	5.38	1
11031	OCDF	39001-02-0	44.7	B	0.0479	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290793
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD076 SDG#: DX082-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290793
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 09:35

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD076 SDG#: DX082-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 16:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/25/2011 11:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290794
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX082-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290794
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX082-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	150	B	0.105	5.51	1
11031	1234678-HpCDF	67562-39-4	24.8	B	0.0755	5.51	1
11031	1234789-HpCDF	55673-89-7	1.65	JB	0.0448	5.51	1
11031	123478-HxCDD	39227-28-6	1.77	JB	0.0571	5.51	1
11031	123478-HxCDF	70648-26-9	1.83	JB	0.0927	5.51	1
11031	123678-HxCDD	57653-85-7	5.45	JB	0.0604	5.51	1
11031	123678-HxCDF	57117-44-9	1.47	JB	0.0810	5.51	1
11031	123789-HxCDD	19408-74-3	4.37	JB	0.0531	5.51	1
11031	123789-HxCDF	72918-21-9	1.55	JB	0.0382	5.51	1
11031	12378-PeCDD	40321-76-4	0.992	JB	0.0396	5.51	1
11031	12378-PeCDF	57117-41-6	0.433	JB	0.0311	5.51	1
11031	234678-HxCDF	60851-34-5	1.16	JB	0.0315	5.51	1
11031	23478-PeCDF	57117-31-4	0.684	JB	0.0287	5.51	1
11031	2378-TCDD	1746-01-6	0.188	JQ	0.0224	1.10	1
11031	2378-TCDF	51207-31-9	0.325	JQ	0.0544	1.10	1
11031	OCDD	3268-87-9	2,610	B	0.104	11.0	1
11031	OCDF	39001-02-0	67.1	B	0.0364	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	30	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290794
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX082-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290794
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:45

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD079 SDG#: DX082-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/27/2011 22:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290795
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD080 SDG#: DX082-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290795
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD080 SDG#: DX082-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.261	JBQ	0.0289	1.10	1
11031	12378-PeCDD	40321-76-4	1.31	JB	0.0663	5.51	1
11031	123478-HxCDD	39227-28-6	2.02	JB	0.0972	5.51	1
11031	123678-HxCDD	57653-85-7	5.41	JB	0.103	5.51	1
11031	123789-HxCDD	19408-74-3	4.94	JB	0.0996	5.51	1
11031	1234678-HpCDD	35822-46-9	144	B	0.183	5.51	1
11031	OCDD	3268-87-9	2,560	B	0.166	11.0	1
11031	2378-TCDF	51207-31-9	0.188	JB	0.0949	1.10	1
11031	12378-PeCDF	57117-41-6	0.940	JB	0.0416	5.51	1
11031	23478-PeCDF	57117-31-4	0.746	JB	0.0402	5.51	1
11031	123478-HxCDF	70648-26-9	1.40	JB	0.0599	5.51	1
11031	123678-HxCDF	57117-44-9	0.819	JB	0.0568	5.51	1
11031	123789-HxCDF	72918-21-9	1.46	JB	0.0614	5.51	1
11031	234678-HxCDF	60851-34-5	0.876	JB	0.0520	5.51	1
11031	1234678-HpCDF	67562-39-4	18.5	B	0.0562	5.51	1
11031	1234789-HpCDF	55673-89-7	1.23	JB	0.0634	5.51	1
11031	OCDF	39001-02-0	48.8	B	0.0488	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-080-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290795
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD080 SDG#: DX082-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290795
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD080 SDG#: DX082-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 17:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290796
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX082-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290796
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX082-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	77.0	B	0.0819	5.27	1
11031	1234678-HpCDF	67562-39-4	10.8	B	0.0340	5.27	1
11031	1234789-HpCDF	55673-89-7	0.761	JB	0.0358	5.27	1
11031	123478-HxCDD	39227-28-6	1.00	JB	0.0437	5.27	1
11031	123478-HxCDF	70648-26-9	0.900	JB	0.0423	5.27	1
11031	123678-HxCDD	57653-85-7	3.03	JB	0.0436	5.27	1
11031	123678-HxCDF	57117-44-9	0.610	JB	0.0385	5.27	1
11031	123789-HxCDD	19408-74-3	2.53	JB	0.0426	5.27	1
11031	123789-HxCDF	72918-21-9	1.04	JB	0.0341	5.27	1
11031	12378-PeCDD	40321-76-4	0.541	JBQ	0.0361	5.27	1
11031	12378-PeCDF	57117-41-6	0.267	JBQ	0.0271	5.27	1
11031	234678-HxCDF	60851-34-5	0.663	JB	0.0290	5.27	1
11031	23478-PeCDF	57117-31-4	0.660	JB	0.0268	5.27	1
11031	2378-TCDD	1746-01-6	0.233	J	0.0222	1.05	1
11031	2378-TCDF	51207-31-9	0.0504	U	0.0504	1.05	1
11031	OCDD	3268-87-9	1,310	B	0.0742	10.5	1
11031	OCDF	39001-02-0	24.9	B	0.0259	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290796
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX082-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290796
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:30

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD081 SDG#: DX082-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/28/2011 00:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290797
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX082-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290797
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX082-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	113	B	0.0842	5.51	1
11031	1234678-HpCDF	67562-39-4	11.5	B	0.0387	5.51	1
11031	1234789-HpCDF	55673-89-7	0.722	JBQ	0.0367	5.51	1
11031	123478-HxCDD	39227-28-6	1.63	JB	0.0495	5.51	1
11031	123478-HxCDF	70648-26-9	1.07	JB	0.0670	5.51	1
11031	123678-HxCDD	57653-85-7	4.18	JB	0.0508	5.51	1
11031	123678-HxCDF	57117-44-9	0.565	JB	0.0562	5.51	1
11031	123789-HxCDD	19408-74-3	4.20	JB	0.0450	5.51	1
11031	123789-HxCDF	72918-21-9	1.16	JB	0.0427	5.51	1
11031	12378-PeCDD	40321-76-4	0.935	JB	0.0411	5.51	1
11031	12378-PeCDF	57117-41-6	0.327	JB	0.0400	5.51	1
11031	234678-HxCDF	60851-34-5	0.556	JB	0.0326	5.51	1
11031	23478-PeCDF	57117-31-4	0.478	JB	0.0387	5.51	1
11031	2378-TCDD	1746-01-6	0.143	JQ	0.0196	1.10	1
11031	2378-TCDF	51207-31-9	0.306	J	0.0735	1.10	1
11031	OCDD	3268-87-9	1,570	B	0.0779	11.0	1
11031	OCDF	39001-02-0	34.1	B	0.0310	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290797
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX082-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290797
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:10

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD082 SDG#: DX082-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/28/2011 01:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290798
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD083 SDG#: DX082-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290798
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD083 SDG#: DX082-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.360	JB	0.0200	1.09	1
11031	12378-PeCDD	40321-76-4	1.95	JB	0.0707	5.43	1
11031	123478-HxCDD	39227-28-6	3.38	JB	0.0677	5.43	1
11031	123678-HxCDD	57653-85-7	7.77	B	0.0713	5.43	1
11031	123789-HxCDD	19408-74-3	7.47	B	0.0682	5.43	1
11031	1234678-HpCDD	35822-46-9	196	B	0.178	5.43	1
11031	OCDD	3268-87-9	3,670	B	0.156	10.9	1
11031	2378-TCDF	51207-31-9	0.261	JBQ	0.0572	1.09	1
11031	12378-PeCDF	57117-41-6	0.359	JB	0.0276	5.43	1
11031	23478-PeCDF	57117-31-4	0.560	JBQ	0.0264	5.43	1
11031	123478-HxCDF	70648-26-9	1.10	JB	0.0585	5.43	1
11031	123678-HxCDF	57117-44-9	0.660	JB	0.0554	5.43	1
11031	123789-HxCDF	72918-21-9	1.07	JB	0.0571	5.43	1
11031	234678-HxCDF	60851-34-5	0.781	JB	0.0525	5.43	1
11031	1234678-HpCDF	67562-39-4	17.2	B	0.0408	5.43	1
11031	1234789-HpCDF	55673-89-7	1.03	JB	0.0562	5.43	1
11031	OCDF	39001-02-0	55.3	B	0.0358	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290798
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD083 SDG#: DX082-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-083-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290798
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:25

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD083 SDG#: DX082-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/04/2011 19:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290799
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD084 SDG#: DX082-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290799
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD084 SDG#: DX082-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	157	B	0.106	5.37	1
11031	1234678-HpCDF	67562-39-4	13.6	B	0.0589	5.37	1
11031	1234789-HpCDF	55673-89-7	0.909	JB	0.0422	5.37	1
11031	123478-HxCDD	39227-28-6	2.68	JB	0.0536	5.37	1
11031	123478-HxCDF	70648-26-9	1.29	JB	0.0788	5.37	1
11031	123678-HxCDD	57653-85-7	6.55	B	0.0559	5.37	1
11031	123678-HxCDF	57117-44-9	0.892	JB	0.0670	5.37	1
11031	123789-HxCDD	19408-74-3	6.17	B	0.0515	5.37	1
11031	123789-HxCDF	72918-21-9	1.00	JB	0.0339	5.37	1
11031	12378-PeCDD	40321-76-4	1.72	JB	0.0430	5.37	1
11031	12378-PeCDF	57117-41-6	0.520	JB	0.0329	5.37	1
11031	234678-HxCDF	60851-34-5	0.761	JB	0.0327	5.37	1
11031	23478-PeCDF	57117-31-4	0.896	JB	0.0304	5.37	1
11031	2378-TCDD	1746-01-6	0.383	J	0.0275	1.07	1
11031	2378-TCDF	51207-31-9	0.285	J	0.0511	1.07	1
11031	OCDD	3268-87-9	2,710	B	0.144	10.7	1
11031	OCDF	39001-02-0	43.6	B	0.0349	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	97	26 - 138
13C12-OCDF	101	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290799
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD084 SDG#: DX082-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290799
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 13:55

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD084 SDG#: DX082-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/28/2011 02:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290800
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD206 SDG#: DX082-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290800
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD206 SDG#: DX082-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	207	B	0.144	5.61	1
11031	1234678-HpCDF	67562-39-4	14.9	B	0.0535	5.61	1
11031	1234789-HpCDF	55673-89-7	0.860	JB	0.0469	5.61	1
11031	123478-HxCDD	39227-28-6	3.69	JB	0.0623	5.61	1
11031	123478-HxCDF	70648-26-9	1.40	JB	0.0789	5.61	1
11031	123678-HxCDD	57653-85-7	8.19	B	0.0656	5.61	1
11031	123678-HxCDF	57117-44-9	0.890	JB	0.0656	5.61	1
11031	123789-HxCDD	19408-74-3	8.87	B	0.0623	5.61	1
11031	123789-HxCDF	72918-21-9	1.05	JB	0.0413	5.61	1
11031	12378-PeCDD	40321-76-4	2.15	JB	0.0566	5.61	1
11031	12378-PeCDF	57117-41-6	0.450	JB	0.0255	5.61	1
11031	234678-HxCDF	60851-34-5	0.823	JB	0.0322	5.61	1
11031	23478-PeCDF	57117-31-4	0.647	JB	0.0252	5.61	1
11031	2378-TCDD	1746-01-6	0.455	J	0.0278	1.12	1
11031	2378-TCDF	51207-31-9	0.320	J	0.0474	1.12	1
11031	OCDD	3268-87-9	3,500	B	0.169	11.2	1
11031	OCDF	39001-02-0	46.8	B	0.0368	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	84	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-206-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290800
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD206 SDG#: DX082-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SS-0.0-0.5

LLI Sample # SW 6290800
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 14:50

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD206 SDG#: DX082-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11145001	05/28/2011 03:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11145001	05/25/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401A	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB01-SA5DN-SS-051711 Water
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290801
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB01 SDG#: DX082-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	1234678-HpCDD	35822-46-9	2.44	JB	0.263	10.5	1
10915	1234678-HpCDF	67562-39-4	1.41	JBQ	0.133	10.5	1
10915	1234789-HpCDF	55673-89-7	0.618	JB	0.159	10.5	1
10915	123478-HxCDD	39227-28-6	0.324	JBQ	0.213	10.5	1
10915	123478-HxCDF	70648-26-9	0.540	JBQ	0.200	10.5	1
10915	123678-HxCDD	57653-85-7	0.467	JBQ	0.220	10.5	1
10915	123678-HxCDF	57117-44-9	0.439	JBQ	0.187	10.5	1
10915	123789-HxCDD	19408-74-3	0.210	U	0.210	10.5	1
10915	123789-HxCDF	72918-21-9	0.837	JBQ	0.193	10.5	1
10915	12378-PeCDD	40321-76-4	0.302	U	0.302	10.5	1
10915	12378-PeCDF	57117-41-6	0.380	JBQ	0.182	10.5	1
10915	234678-HxCDF	60851-34-5	0.556	JB	0.180	10.5	1
10915	23478-PeCDF	57117-31-4	0.717	JBQ	0.156	10.5	1
10915	2378-TCDD	1746-01-6	0.390	JBQ	0.363	2.09	1
10915	2378-TCDF	51207-31-9	0.319	U	0.319	2.09	1
10915	OCDD	3268-87-9	4.71	JBQ	0.298	20.9	1
10915	OCDF	39001-02-0	1.38	JBQ	0.356	20.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	52	25 - 181
13C12-123478-HxCDD	48	32 - 141
13C12-123678-HxCDD	48	28 - 130
13C12-123789-HxCDD	50	28 - 130
13C12-1234678-HpCDD	53	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	48	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB01-SA5DN-SS-051711 Water**
SSFL Area IV Collocated Soil Sampling
EB01-SA5DN-SS-051711

LLI Sample # WW 6290801
LLI Group # 1247437
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:30

Submitted: 05/18/2011 09:20
Reported: 06/10/2011 09:14

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB01 SDG#: DX082-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140002	05/25/2011 08:42	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11140002	05/21/2011 11:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247437
Reported: 06/10/11 at 09:14 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11144162401B	Sample number(s): 6290784-6290785,6290788-6290790,6290792-6290793									
Moisture Content by 160.3						100		80-120		
Batch number: 11160162401A	Sample number(s): 6290786-6290787,6290791,6290794-6290800									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11140002	Sample number(s): 6290801									
2378-TCDD	0.410	J	0.280	2.00	pg/l	101		67-158		
2378-TCDF	0.263	U	0.263	2.00	pg/l	101		75-158		
12378-PeCDD	1.03	J	0.308	10.0	pg/l	109		70-142		
12378-PeCDF	0.573	J	0.154	10.0	pg/l	106		80-134		
23478-PeCDF	0.830	J	0.141	10.0	pg/l	103		68-160		
123478-HxCDD	0.648	J	0.199	10.0	pg/l	112		70-164		
123678-HxCDD	0.598	J	0.208	10.0	pg/l	110		76-134		
123789-HxCDD	0.427	J	0.206	10.0	pg/l	112		64-162		
123478-HxCDF	0.579	J	0.181	10.0	pg/l	114		72-134		
123678-HxCDF	0.716	J	0.182	10.0	pg/l	113		84-130		
123789-HxCDF	1.14	J	0.202	10.0	pg/l	113		78-130		
234678-HxCDF	0.697	J	0.175	10.0	pg/l	111		70-156		
1234678-HpCDD	2.50	J	0.308	10.0	pg/l	118		70-140		
1234678-HpCDF	1.49	J	0.128	10.0	pg/l	119		82-122		
1234789-HpCDF	0.992	J	0.166	10.0	pg/l	118		78-138		
OCDD	6.14	J	0.365	20.0	pg/l	128		78-144		
OCDF	3.26	J	0.430	20.0	pg/l	126		63-170		
Batch number: 11145001	Sample number(s): 6290784-6290792,6290794,6290796-6290797,6290799-6290800									
2378-TCDD	0.0198	U	0.0198	1.00	ng/kg	101		67-158		
2378-TCDF	0.0214	U	0.0214	1.00	ng/kg	106		75-158		
12378-PeCDD	0.112	J	0.0246	5.00	ng/kg	100		70-142		
12378-PeCDF	0.0823	J	0.0142	5.00	ng/kg	100		80-134		
23478-PeCDF	0.145	J	0.0148	5.00	ng/kg	101		68-160		
123478-HxCDD	0.0482	J	0.0183	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0877	J	0.0187	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0784	J	0.0185	5.00	ng/kg	100		64-162		
123478-HxCDF	0.0751	J	0.0174	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0777	J	0.0141	5.00	ng/kg	103		84-130		
123789-HxCDF	0.171	J	0.0205	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0947	J	0.0158	5.00	ng/kg	103		70-156		
1234678-HpCDD	0.283	J	0.0241	5.00	ng/kg	98		70-140		
1234678-HpCDF	0.138	J	0.00940	5.00	ng/kg	100		82-122		
1234789-HpCDF	0.147	J	0.0187	5.00	ng/kg	102		78-138		
OCDD	0.724	J	0.0198	10.0	ng/kg	100		78-144		
OCDF	0.487	J	0.0400	10.0	ng/kg	101		63-170		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247437
Reported: 06/10/11 at 09:14 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11151002	Sample number(s): 6290793,6290795									
2378-TCDD	0.0427	J	0.0189	1.00	ng/kg	96		67-158		
12378-PeCDD	0.125	J	0.0193	5.00	ng/kg	101		70-142		
123478-HxCDD	0.107	J	0.0183	5.00	ng/kg	101		70-164		
123678-HxCDD	0.114	J	0.0190	5.00	ng/kg	105		76-134		
123789-HxCDD	0.149	J	0.0185	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.286	J	0.0221	5.00	ng/kg	101		70-140		
OCDD	0.448	J	0.0200	10.0	ng/kg	100		78-144		
2378-TCDF	0.0225	J	0.0181	1.00	ng/kg	107		75-158		
12378-PeCDF	0.132	J	0.0101	5.00	ng/kg	100		80-134		
23478-PeCDF	0.151	J	0.0100	5.00	ng/kg	100		68-160		
123478-HxCDF	0.144	J	0.0190	5.00	ng/kg	100		72-134		
123678-HxCDF	0.124	J	0.0165	5.00	ng/kg	100		84-130		
123789-HxCDF	0.206	J	0.0177	5.00	ng/kg	100		78-130		
234678-HxCDF	0.134	J	0.0149	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.161	J	0.0106	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.174	J	0.0139	5.00	ng/kg	100		78-138		
OCDF	0.332	J	0.0253	10.0	ng/kg	100		63-170		
Batch number: 11151003	Sample number(s): 6290798									
2378-TCDD	0.0218	J	0.0171	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0560	J	0.0171	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0479	J	0.0145	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0457	J	0.0149	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0778	J	0.0148	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.200	J	0.0183	5.00	ng/kg	101		70-140		
OCDD	0.455	J	0.0201	10.0	ng/kg	100		78-144		
2378-TCDF	0.0191	J	0.0160	1.00	ng/kg	112		75-158		
12378-PeCDF	0.0666	J	0.00750	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0691	J	0.00760	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0539	J	0.0111	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0472	J	0.00920	5.00	ng/kg	98		84-130		
123789-HxCDF	0.111	J	0.0127	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0660	J	0.0100	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.109	J	0.00700	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0942	J	0.0121	5.00	ng/kg	100		78-138		
OCDF	0.232	J	0.0263	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11144162401B	Sample number(s): 6290784-6290785,6290788-6290790,6290792-6290793 BKG: P290756								
Moisture Content by 160.3						10.5	10.6	1	20
Batch number: 11160162401A	Sample number(s): 6290786-6290787,6290791,6290794-6290800 BKG: P288941								
Moisture Content by 160.3						11.8	12.4	4	20
Batch number: 11145001	Sample number(s): 6290784-6290792,6290794,6290796-6290797,6290799-6290800 UNSPK: 6290788								
2378-TCDD	98	97	67-158	1	25				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247437
Reported: 06/10/11 at 09:14 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	98	99	75-158	1	25				
12378-PeCDD	96	97	70-142	2	25				
12378-PeCDF	98	98	80-134	0	25				
23478-PeCDF	96	98	68-160	2	25				
123478-HxCDD	97	100	70-164	3	25				
123678-HxCDD	100	98	76-134	2	25				
123789-HxCDD	98	99	64-162	1	25				
123478-HxCDF	103	100	72-134	3	25				
123678-HxCDF	99	100	84-130	1	25				
123789-HxCDF	99	98	78-130	1	25				
234678-HxCDF	99	101	70-156	2	25				
1234678-HpCDD	121	139	70-140	8	25				
1234678-HpCDF	106	103	82-122	2	25				
1234789-HpCDF	101	99	78-138	2	25				
OCDD	418 (2)	577 (2)	78-144	14	25				
OCDF	107	104	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11140002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6290801	50	52	44	45	46	51
Blank	71	71	64	65	66	67
OPR	59	57	52	52	53	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6290801	48	51	54	96	52	48
Blank	63	62	57	101	72	68
OPR	50	49	46	90	57	55
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6290801	48	50	53	57	51	48
Blank	69	68	66	61	73	69
OPR	55	56	54	49	59	55
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247437
Reported: 06/10/11 at 09:14 AM

Surrogate Quality Control

Batch number: 11145001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6290784	71	66	65	70	71	74
6290785	73	68	57	61	75	74
6290786	79	72	60	65	76	78
6290787	75	68	42	48	72	66
6290788	74	69	41	45	72	73
6290789	77	71	66	72	75	78
6290790	89	82	77	83	87	90
6290791	82	85	64	77	85	91
6290792	77	78	31	35	80	82
6290794	77	85	27	30	75	73
6290796	75	83	54	60	78	77
6290797	76	82	39	47	75	72
6290799	86	96	37	43	89	93
6290800	77	85	33	41	78	74
Blank	63	60	60	72	67	58
MS	77	71	66	72	75	78
MSD	89	82	77	83	87	90
OPR	57	62	59	64	67	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6290784	77	67	63	81	69	75
6290785	63	68	61	78	68	73
6290786	68	73	67	83	73	77
6290787	58	65	59	81	71	70
6290788	49	67	59	80	71	72
6290789	69	67	58	82	72	77
6290790	78	76	63	95	83	87
6290791	95	90	96	86	86	87
6290792	49	87	91	82	78	74
6290794	42	81	84	80	85	66
6290796	72	83	86	79	84	72
6290797	62	76	78	83	84	71
6290799	57	97	101	91	95	80
6290800	58	80	84	84	85	73
Blank	90	55	52	85	66	73
MS	69	67	58	82	72	77
MSD	78	76	63	95	83	87
OPR	80	64	60	83	65	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6290784	75	73	75	73	70	70
6290785	75	74	73	66	74	70
6290786	76	77	77	72	78	75
6290787	70	73	71	69	74	74
6290788	67	72	69	63	74	70
6290789	74	77	71	63	76	73
6290790	86	87	80	70	90	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247437
Reported: 06/10/11 at 09:14 AM

Surrogate Quality Control

6290791	85	87	95	107	84	90
6290792	73	79	85	93	79	80
6290794	67	74	81	91	78	87
6290796	73	76	83	93	76	87
6290797	69	76	82	91	76	88
6290799	81	86	95	107	89	98
6290800	71	76	84	96	79	89
Blank	74	74	75	73	58	67
MS	74	77	71	63	76	73
MSD	86	87	80	70	90	85
OPR	70	73	75	73	56	63
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11151002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6290793	71	72	64	65	73	82
6290795	68	71	63	67	71	71
Blank	73	78	65	72	81	82
OPR	62	66	61	66	69	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6290793	71	75	74	76	72	71
6290795	70	73	71	76	72	71
Blank	86	78	77	92	80	83
OPR	76	67	65	79	68	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6290793	68	73	76	79	70	73
6290795	67	71	74	74	68	73
Blank	80	84	88	89	70	80
OPR	66	73	74	73	60	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11151003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6290798	75	78	73	76	77	82
Blank	71	72	69	78	75	68
OPR	60	59	53	64	62	54
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247437
Reported: 06/10/11 at 09:14 AM

Surrogate Quality Control

6290798	84	75	74	82	77	77
Blank	95	68	65	89	78	82
OPR	82	54	52	79	66	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6290798	76	78	81	84	75	80
Blank	81	81	83	82	43	79
OPR	67	70	72	72	54	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

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13013 1247437 6290784-801

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196*	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										Electronic COC without "Relinquished by" Signature NLM 5/24/11
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-SS sleeve			X	X																	
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0940	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0940	SOIL	NONE	2-SS sleeves			X	X							X										MS/MSD sample
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-SS sleeve			X	X																	
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X					X					
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	1-SS sleeve			X	X																	
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	1-SS sleeve			X	X																	
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	1-SS sleeve			X	X																	
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s): 8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

13013 ~~1247434~~ ~~6290752-70~~
1247437 6290784-801
NLM 5/24/11

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-254-SA5A-SS-0.0-0.5	5.16.11	1700	SOIL	NONE	1-SS sleeve			X	X																	
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-01-SA5DN-QC-051711	5.17.11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SS-0.0-0.5	5.17.11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SS-0.0-0.5	5.17.11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-072-SA5DN-SS-0.0-0.5MS	5.17.11	0840	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-074-SA5DN-SS-0.0-0.5	5.17.11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-075-SA5DN-SS-0.0-0.5	5.17.11	0910	SOIL	NONE	1-SS sleeve			X	X																	
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-076-SA5DN-SS-0.0-0.5	5.17.11	0935	SOIL	NONE	1-SS sleeve			X	X																	
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-079-SA5DN-SS-0.0-0.5	5.17.11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-080-SA5DN-SS-0.0-0.5	5.17.11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-081-SA5DN-SS-0.0-0.5	5.17.11	1330	SOIL	NONE	1-SS sleeve			X	X																	
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-082-SA5DN-SS-0.0-0.5	5.17.11	1310	SOIL	NONE	1-SS sleeve			X	X																	
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-083-SA5DN-SS-0.0-0.5	5.17.11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-084-SA5DN-SS-0.0-0.5	5.17.11	1355	SOIL	NONE	1-SS sleeve			X	X																	
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-206-SA5DN-SS-0.0-0.5	5.17.11	1450	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

13013 1247437 6290784-801

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	NONE	7-1 liter ambers			X	X	X				X	X		
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	HNO3	1 - 500 mL poly	X											
EB01-SA5DN-SS-051711	5.17.11	1230	WATER	NONE	1 - 500 mL poly		X				X	X	X				
Relinquished by: (*Signature*)	Date/Time 05/17/2011 / 1700		Received for Laboratory by: (*Signature*) 5/18/11 920														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7814														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/18/2011
Group Number: 1247439
SDG: DE153
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA5DN-SB-5.5-6.5 Soil	6290803
SL-001-SA5DN-SB-9.0-10.0 Soil	6290804
SL-005-SA5DN-SB-4.0-5.0 Soil	6290805
SL-005-SA5DN-SB-9.0-10.0 Soil	6290806
SL-068-SA5DN-SB-4.0-5.0 Soil	6290807
SL-068-SA5DN-SB-9.0-10.0 Soil	6290808
SL-073-SA5DN-SB-4.0-5.0 Soil	6290809
SL-073-SA5DN-SB-9.0-10.0 Soil	6290810
TB-051711 Water	6290811

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290803
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0015 SDG#: DE153-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1	0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1	0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1	0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1	0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1	0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1	0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1	0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1	0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1	0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1	0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1	0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1	0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1	0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1	0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1	0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1	0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1	0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1	0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1	0.87
06192	Methylene Chloride	75-09-2	0.77	J	0.24	4.1	0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.87

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290803
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0015 SDG#: DE153-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1	0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1	0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.1	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1	0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1	0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1	0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1	0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1	0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1	0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16	22.98
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290803
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0015 SDG#: DE153-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290803
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0015 SDG#: DE153-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000		5.78	23.0	1
07914	Boron	7440-42-8	20.7		1.02	5.75	1
01650	Calcium	7440-70-2	15,200		7.05	23.0	1
01654	Iron	7439-89-6	29,700		5.41	23.0	1
01656	Lithium	7439-93-2	24.7		0.25	2.3	1
01657	Magnesium	7439-95-4	7,420		2.92	11.5	1
06958	Manganese	7439-96-5	577		0.0896	0.575	1
10145	Phosphorus	7723-14-0	253		0.644	11.5	1
01662	Potassium	7440-09-7	3,250		20.7	57.5	1
01667	Sodium	7440-23-5	420		42.9	115	1
07968	Strontium	7440-24-6	43.7		0.0713	0.575	1
06969	Tin	7440-31-5	2.60	J	1.15	11.5	1
06970	Titanium	7440-32-6	494		0.437	1.15	1
10146	Zirconium	7440-67-7	0.965	U	0.965	5.75	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208	J	0.0683	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.55		0.0911	0.455	2
06126	Barium	7440-39-3	205		0.123	0.455	2
06127	Beryllium	7440-41-7	1.18		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.418		0.0455	0.114	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290803
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0015 SDG#: DE153-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	38.4	0.137	0.455	2
06132	Cobalt	7440-48-4	16.4	0.0228	0.114	2
06133	Copper	7440-50-8	23.6	0.0751	0.455	2
06135	Lead	7439-92-1	13.6	0.0118	0.228	2
06138	Molybdenum	7439-98-7	0.476	0.0569	0.114	2
06139	Nickel	7440-02-0	33.1	0.114	0.455	2
06141	Selenium	7782-49-2	0.140 J	0.0455	0.455	2
06142	Silver	7440-22-4	0.0732 J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.465	0.0341	0.114	2
06148	Vanadium	7440-62-2	64.0	0.0250	0.114	2
06149	Zinc	7440-66-6	96.9	0.637	3.41	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0	0.94	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.48	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-001-SA5DN-SB-6.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290803
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0015 SDG#: DE153-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 21:24	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 16:21	Jason M Long	22.98
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113824445	05/18/2011 13:04	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 09:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 01:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 04:21	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 13:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290803
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0015 SDG#: DE153-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 16:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	05/24/2011 10:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 14:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143495202A	05/24/2011 03:15	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290804
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0019 SDG#: DE153-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290804
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0019 SDG#: DE153-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290804
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0019 SDG#: DE153-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.58	22.2	1
07914	Boron	7440-42-8	18.2		0.988	5.55	1
01650	Calcium	7440-70-2	5,370		6.80	22.2	1
01654	Iron	7439-89-6	26,000		5.23	22.2	1
01656	Lithium	7439-93-2	21.5		0.24	2.2	1
01657	Magnesium	7439-95-4	5,270		2.82	11.1	1
06958	Manganese	7439-96-5	617		0.0866	0.555	1
10145	Phosphorus	7723-14-0	254		0.622	11.1	1
01662	Potassium	7440-09-7	2,910		20.0	55.5	1
01667	Sodium	7440-23-5	418		41.4	111	1
07968	Strontium	7440-24-6	25.4		0.0688	0.555	1
06969	Tin	7440-31-5	2.75	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,070		0.422	1.11	1
10146	Zirconium	7440-67-7	2.39	J	0.932	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0647	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.59		0.0862	0.431	2
06126	Barium	7440-39-3	95.4		0.116	0.431	2
06127	Beryllium	7440-41-7	0.688		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.135		0.0431	0.108	2
06131	Chromium	7440-47-3	18.4		0.129	0.431	2
06132	Cobalt	7440-48-4	8.94		0.0216	0.108	2
06133	Copper	7440-50-8	9.51		0.0711	0.431	2
06135	Lead	7439-92-1	7.70		0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.340		0.0539	0.108	2
06139	Nickel	7440-02-0	16.4		0.108	0.431	2
06141	Selenium	7782-49-2	0.0475	J	0.0431	0.431	2
06142	Silver	7440-22-4	0.0335	J	0.0129	0.108	2
06145	Thallium	7440-28-0	0.280		0.0323	0.108	2
06148	Vanadium	7440-62-2	35.9		0.0237	0.108	2
06149	Zinc	7440-66-6	54.1		0.604	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.7		0.90	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290804
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0019 SDG#: DE153-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.55		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.8		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 10:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 01:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 05:16	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 14:00	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290804
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0019 SDG#: DE153-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 10:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 10:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 10:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 10:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 17:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	06/01/2011 17:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 14:45	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11143495202A	05/25/2011 08:15	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290805
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0054 SDG#: DE153-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9	0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.5	0.94
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	0.94
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	0.94
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	0.94
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	0.94
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9	0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5	0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	0.94
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	0.94
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.5	0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.5	0.94
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	0.94
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	0.94
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	0.94
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6	0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5	0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5	0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	0.94
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	0.94
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5	0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5	0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	0.94
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.5	0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5	0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5	0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	0.94
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	0.94
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6	0.94
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9	0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5	0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9	0.94
06192	Methylene Chloride	75-09-2	0.78	J	0.27	4.5	0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	0.94

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290805
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0054 SDG#: DE153-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5	0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.5	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5	0.94
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5	0.94
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5	0.94
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5	0.94
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16	23.11
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290805
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0054 SDG#: DE153-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290805
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0054 SDG#: DE153-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.78	U	0.78	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0	1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0	1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,600		5.88	23.4	1
07914	Boron	7440-42-8	25.6		1.04	5.84	1
01650	Calcium	7440-70-2	28,600		7.17	23.4	1
01654	Iron	7439-89-6	34,700		27.5	117	5
01656	Lithium	7439-93-2	27.6		0.26	2.3	1
01657	Magnesium	7439-95-4	7,870		2.97	11.7	1
06958	Manganese	7439-96-5	420		0.0912	0.584	1
10145	Phosphorus	7723-14-0	454		0.655	11.7	1
01662	Potassium	7440-09-7	4,180		21.0	58.4	1
01667	Sodium	7440-23-5	132		43.6	117	1
07968	Strontium	7440-24-6	63.1		0.0725	0.584	1
06969	Tin	7440-31-5	2.70	J	1.17	11.7	1
06970	Titanium	7440-32-6	1,130		0.444	1.17	1
10146	Zirconium	7440-67-7	3.82	J	0.982	5.84	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0688	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.01		0.0917	0.459	2
06126	Barium	7440-39-3	139		0.124	0.459	2
06127	Beryllium	7440-41-7	0.878		0.0183	0.115	2
06128	Cadmium	7440-43-9	0.441		0.0458	0.115	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290805
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0054 SDG#: DE153-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	32.5	0.138	0.459	2
06132	Cobalt	7440-48-4	11.2	0.0229	0.115	2
06133	Copper	7440-50-8	18.2	0.0757	0.459	2
06135	Lead	7439-92-1	10.3	0.0119	0.229	2
06138	Molybdenum	7439-98-7	0.318	0.0573	0.115	2
06139	Nickel	7440-02-0	24.0	0.115	0.459	2
06141	Selenium	7782-49-2	0.102 J	0.0458	0.459	2
06142	Silver	7440-22-4	0.0426 J	0.0138	0.115	2
06145	Thallium	7440-28-0	0.348	0.0344	0.115	2
06148	Vanadium	7440-62-2	56.9	0.0252	0.115	2
06149	Zinc	7440-66-6	79.0	0.642	3.44	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.94	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.32	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290805
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0054 SDG#: DE153-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 21:46	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 16:41	Jason M Long	23.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:07	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113824445	05/18/2011 13:06	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 10:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 02:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 05:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 20:50	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 14:04	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290805
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0054 SDG#: DE153-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 17:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	05/24/2011 12:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 14:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143495202A	05/24/2011 03:15	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290806
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0059 SDG#: DE153-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290806
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0059 SDG#: DE153-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290806
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0059 SDG#: DE153-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.56	22.1	1
07914	Boron	7440-42-8	19.7		0.983	5.52	1
01650	Calcium	7440-70-2	24,300		6.77	22.1	1
01654	Iron	7439-89-6	32,400		26.0	110	5
01656	Lithium	7439-93-2	26.4		0.24	2.2	1
01657	Magnesium	7439-95-4	5,890		2.81	11.0	1
06958	Manganese	7439-96-5	349		0.0862	0.552	1
10145	Phosphorus	7723-14-0	283		0.619	11.0	1
01662	Potassium	7440-09-7	3,260		19.9	55.2	1
01667	Sodium	7440-23-5	148		41.2	110	1
07968	Strontium	7440-24-6	40.4		0.0685	0.552	1
06969	Tin	7440-31-5	2.87	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,220		0.420	1.10	1
10146	Zirconium	7440-67-7	2.62	J	0.928	5.52	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.205	J	0.0676	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.32		0.0901	0.451	2
06126	Barium	7440-39-3	146		0.122	0.451	2
06127	Beryllium	7440-41-7	0.996		0.0180	0.113	2
06128	Cadmium	7440-43-9	0.252		0.0451	0.113	2
06131	Chromium	7440-47-3	30.9		0.135	0.451	2
06132	Cobalt	7440-48-4	8.27		0.0225	0.113	2
06133	Copper	7440-50-8	16.6		0.0743	0.451	2
06135	Lead	7439-92-1	8.34		0.0117	0.225	2
06138	Molybdenum	7439-98-7	0.374		0.0563	0.113	2
06139	Nickel	7440-02-0	22.3		0.113	0.451	2
06141	Selenium	7782-49-2	0.0451	U	0.0451	0.451	2
06142	Silver	7440-22-4	0.0785	J	0.0135	0.113	2
06145	Thallium	7440-28-0	0.335		0.0338	0.113	2
06148	Vanadium	7440-62-2	52.9		0.0248	0.113	2
06149	Zinc	7440-66-6	78.4		0.631	3.38	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.6		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290806
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0059 SDG#: DE153-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.23		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.1		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 11:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 02:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 05:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 20:54	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 14:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290806
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0059 SDG#: DE153-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 09:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 09:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 09:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 09:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 17:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	05/24/2011 12:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 15:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143495202A	05/24/2011 03:15	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039402B	05/23/2011 19:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290807
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0684 SDG#: DE153-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	7.6	U	7.6	9.1	1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.5	1.01
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5	1.01
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5	1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5	1.01
06192	Bromoform	75-25-2	0.45	U	0.45	4.5	1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5	1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1	1.01
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5	1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5	1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5	1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5	1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5	1.01
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5	1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5	1.01
06192	Chloroform	67-66-3	0.14	U	0.14	4.5	1.01
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5	1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5	1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5	1.01
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7	1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5	1.01
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5	1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5	1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5	1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5	1.01
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5	1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5	1.01
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5	1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5	1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5	1.01
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5	1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5	1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5	1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5	1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5	1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5	1.01
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5	1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5	1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5	1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5	1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.5	1.01
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7	1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5	1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1	1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5	1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5	1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5	1.01
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1	1.01
06192	Methylene Chloride	75-09-2	0.87	J	0.27	4.5	1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5	1.01

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290807
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0684 SDG#: DE153-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5	1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5	1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5	1.01
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5	1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.5	1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5	1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5	1.01
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5	1.01
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5	1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5	1.01
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5	1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5	1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5	1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5	1.01
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5	1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5	1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5	1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15	22.81
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290807
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0684 SDG#: DE153-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.3	5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.3	5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.3	5
10138	Benzo(b)fluoranthene	205-99-2	4.2	J	3.7	9.3	5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.3	5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.3	5
10138	Chrysene	218-01-9	4.7	J	1.9	9.3	5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.3	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290807
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0684 SDG#: DE153-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.3	5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.3	5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3	5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3	5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3	5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.3	5
10138	Pyrene	129-00-0	3.7	U	3.7	9.3	5
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		5.53	22.0	1
07914	Boron	7440-42-8	16.0		0.978	5.50	1
01650	Calcium	7440-70-2	8,960		6.74	22.0	1
01654	Iron	7439-89-6	23,400		5.18	22.0	1
01656	Lithium	7439-93-2	21.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,440		2.79	11.0	1
06958	Manganese	7439-96-5	430		0.0857	0.550	1
10145	Phosphorus	7723-14-0	175		0.615	11.0	1
01662	Potassium	7440-09-7	1,870		19.8	55.0	1
01667	Sodium	7440-23-5	434		41.0	110	1
07968	Strontium	7440-24-6	37.9		0.0681	0.550	1
06969	Tin	7440-31-5	2.63	J	1.10	11.0	1
06970	Titanium	7440-32-6	842		0.418	1.10	1
10146	Zirconium	7440-67-7	2.54	J	0.923	5.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.183	J	0.0659	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.81		0.0879	0.440	2
06126	Barium	7440-39-3	107		0.119	0.440	2
06127	Beryllium	7440-41-7	0.954		0.0176	0.110	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290807
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0684 SDG#: DE153-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.145	0.0440	0.110	2
06131	Chromium	7440-47-3	23.1	0.132	0.440	2
06132	Cobalt	7440-48-4	6.22	0.0220	0.110	2
06133	Copper	7440-50-8	10.9	0.0725	0.440	2
06135	Lead	7439-92-1	8.40	0.0114	0.220	2
06138	Molybdenum	7439-98-7	0.445	0.0550	0.110	2
06139	Nickel	7440-02-0	14.7	0.110	0.440	2
06141	Selenium	7782-49-2	0.0829 J	0.0440	0.440	2
06142	Silver	7440-22-4	0.0322 J	0.0132	0.110	2
06145	Thallium	7440-28-0	0.264	0.0330	0.110	2
06148	Vanadium	7440-62-2	47.0	0.0242	0.110	2
06149	Zinc	7440-66-6	44.6	0.615	3.30	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	21.1	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-068-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290807
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0684 SDG#: DE153-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 22:09	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 17:01	Jason M Long	22.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113824445	05/18/2011 13:09	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 11:35	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 03:10	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 06:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 14:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 10:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 10:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 10:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290807
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0684 SDG#: DE153-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 10:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 18:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	05/24/2011 13:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 15:19	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143495202A	05/24/2011 03:15	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290808
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0689 SDG#: DE153-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290808
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0689 SDG#: DE153-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	4.2	U	4.2	5.8	1
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290808
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0689 SDG#: DE153-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.64	22.4	1
07914	Boron	7440-42-8	21.3		0.998	5.61	1
01650	Calcium	7440-70-2	6,100		6.87	22.4	1
01654	Iron	7439-89-6	35,200		26.4	112	5
01656	Lithium	7439-93-2	27.7		0.25	2.2	1
01657	Magnesium	7439-95-4	6,750		2.85	11.2	1
06958	Manganese	7439-96-5	508		0.0874	0.561	1
10145	Phosphorus	7723-14-0	257		0.628	11.2	1
01662	Potassium	7440-09-7	2,710		20.2	56.1	1
01667	Sodium	7440-23-5	771		41.8	112	1
07968	Strontium	7440-24-6	48.0		0.0695	0.561	1
06969	Tin	7440-31-5	2.85	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,120		0.426	1.12	1
10146	Zirconium	7440-67-7	2.48	J	0.942	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0686	U	0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.40		0.0915	0.457	2
06126	Barium	7440-39-3	137		0.123	0.457	2
06127	Beryllium	7440-41-7	0.901		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.0648	J	0.0457	0.114	2
06131	Chromium	7440-47-3	30.2		0.137	0.457	2
06132	Cobalt	7440-48-4	5.30		0.0229	0.114	2
06133	Copper	7440-50-8	16.4		0.0755	0.457	2
06135	Lead	7439-92-1	6.80		0.0119	0.229	2
06138	Molybdenum	7439-98-7	0.127		0.0572	0.114	2
06139	Nickel	7440-02-0	17.9		0.114	0.457	2
06141	Selenium	7782-49-2	0.0550	J	0.0457	0.457	2
06142	Silver	7440-22-4	0.0865	J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.348		0.0343	0.114	2
06148	Vanadium	7440-62-2	34.3		0.0252	0.114	2
06149	Zinc	7440-66-6	60.4		0.640	3.43	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0040	J	0.0031	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.92	1.2	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290808
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0689 SDG#: DE153-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4	U	10.4	34.6	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23	U	0.23	1.2	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.39		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.4		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 12:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 03:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111390003A	05/19/2011 18:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 06:30	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111390003A	05/19/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 20:57	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290808
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0689 SDG#: DE153-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 14:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 10:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 10:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 10:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 10:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 18:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	05/24/2011 13:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 16:17	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143495202A	05/24/2011 03:15	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290809
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0734 SDG#: DE153-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.9	U	6.9	8.3	0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1	0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3	0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1	0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1	0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2	0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1	0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1	0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1	0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1	0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1	0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1	0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1	0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1	0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1	0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1	0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1	0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2	0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3	0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1	0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3	0.91
06192	Methylene Chloride	75-09-2	1.1	J	0.25	4.1	0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.91

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290809
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0734 SDG#: DE153-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1	0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1	0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1	0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1	0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1	0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1	0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1	0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1	0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1	0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1	0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.97
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290809
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0734 SDG#: DE153-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.92	J	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	3.6		0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.99	J	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	3.9		0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.81	J	0.74	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290809
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0734 SDG#: DE153-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	8.8	J	6.7	20	1
10138	Phenanthrene	85-01-8	2.6		0.74	1.9	1
10138	Pyrene	129-00-0	1.9		0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		5.63	22.4	1
07914	Boron	7440-42-8	16.0		0.997	5.60	1
01650	Calcium	7440-70-2	4,770		6.87	22.4	1
01654	Iron	7439-89-6	25,000		5.28	22.4	1
01656	Lithium	7439-93-2	23.5		0.25	2.2	1
01657	Magnesium	7439-95-4	5,110		2.84	11.2	1
06958	Manganese	7439-96-5	213		0.0874	0.560	1
10145	Phosphorus	7723-14-0	131		0.627	11.2	1
01662	Potassium	7440-09-7	2,020		20.2	56.0	1
01667	Sodium	7440-23-5	455		41.8	112	1
07968	Strontium	7440-24-6	37.2		0.0694	0.560	1
06969	Tin	7440-31-5	2.64	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,080		0.426	1.12	1
10146	Zirconium	7440-67-7	2.39	J	0.941	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.107	J	0.0653	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.53		0.0870	0.435	2
06126	Barium	7440-39-3	82.8		0.117	0.435	2
06127	Beryllium	7440-41-7	0.710		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0817	J	0.0435	0.109	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290809
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0734 SDG#: DE153-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	20.8	0.131	0.435	2
06132	Cobalt	7440-48-4	6.29	0.0218	0.109	2
06133	Copper	7440-50-8	9.35	0.0718	0.435	2
06135	Lead	7439-92-1	6.61	0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.308	0.0544	0.109	2
06139	Nickel	7440-02-0	12.2	0.109	0.435	2
06141	Selenium	7782-49-2	0.0435 U	0.0435	0.435	2
06142	Silver	7440-22-4	0.0546 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.237	0.0326	0.109	2
06148	Vanadium	7440-62-2	41.6	0.0239	0.109	2
06149	Zinc	7440-66-6	40.4	0.609	3.26	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.6	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.06	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-073-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290809
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0734 SDG#: DE153-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111401AA	05/20/2011 22:31	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 17:21	Jason M Long	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201113824445	05/18/2011 13:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201113824445	05/18/2011 13:11	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 12:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 08:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 06:49	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 14:22	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 10:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 10:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 10:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 10:08	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290809
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0734 SDG#: DE153-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 19:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	05/24/2011 14:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 16:39	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143495202A	05/24/2011 03:15	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290810
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0739 SDG#: DE153-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290810
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0739 SDG#: DE153-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.94	J	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	4.3		0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	8.8	J	6.8	20	1
10138	Phenanthrene	85-01-8	3.5		0.75	1.9	1
10138	Pyrene	129-00-0	2.5		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290810
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0739 SDG#: DE153-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		5.48	21.8	1
07914	Boron	7440-42-8	12.7		0.969	5.44	1
01650	Calcium	7440-70-2	3,360		6.68	21.8	1
01654	Iron	7439-89-6	22,000		5.13	21.8	1
01656	Lithium	7439-93-2	25.3		0.24	2.2	1
01657	Magnesium	7439-95-4	4,430		2.77	10.9	1
06958	Manganese	7439-96-5	212		0.0849	0.544	1
10145	Phosphorus	7723-14-0	227		0.610	10.9	1
01662	Potassium	7440-09-7	2,430		19.6	54.4	1
01667	Sodium	7440-23-5	374		40.6	109	1
07968	Strontium	7440-24-6	27.5		0.0675	0.544	1
06969	Tin	7440-31-5	2.64	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,040		0.414	1.09	1
10146	Zirconium	7440-67-7	1.21	J	0.915	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0666	U	0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.08		0.0888	0.444	2
06126	Barium	7440-39-3	89.9		0.120	0.444	2
06127	Beryllium	7440-41-7	0.636		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.156		0.0444	0.111	2
06131	Chromium	7440-47-3	17.7		0.133	0.444	2
06132	Cobalt	7440-48-4	8.50		0.0222	0.111	2
06133	Copper	7440-50-8	12.8		0.0733	0.444	2
06135	Lead	7439-92-1	7.02		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.296		0.0555	0.111	2
06139	Nickel	7440-02-0	16.5		0.111	0.444	2
06141	Selenium	7782-49-2	0.0444	U	0.0444	0.444	2
06142	Silver	7440-22-4	0.0203	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.249		0.0333	0.111	2
06148	Vanadium	7440-62-2	36.0		0.0244	0.111	2
06149	Zinc	7440-66-6	47.0		0.622	3.33	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290810
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0739 SDG#: DE153-08

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23	U	0.23	1.1	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.95		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.7		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11139SLH026	05/24/2011 12:50	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11139SLG026	05/21/2011 09:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11139SLG026	05/20/2011 03:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11139SLH026	05/20/2011 03:30	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111390012A	05/25/2011 07:07	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111390012A	05/19/2011 16:40	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111395708002	05/20/2011 14:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290810
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0739 SDG#: DE153-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111391026001D	05/20/2011 10:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111391026001C	05/20/2011 10:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111391026001B	05/20/2011 10:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111391026001A	05/20/2011 10:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111395711001	05/20/2011 07:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111395708002	05/19/2011 20:43	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111391026001	05/19/2011 20:46	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111395711001	05/20/2011 01:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11143495201A	05/25/2011 19:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11143495202A	05/24/2011 14:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243201A	05/25/2011 16:51	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11143495201A	05/24/2011 01:00	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11143495202A	05/24/2011 03:15	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243201A	05/24/2011 20:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-051711 Water
SSFL Area IV Collocated Soil Sampling
TB-051711

LLI Sample # WW 6290811
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB517 SDG#: DE153-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-051711 Water
SSFL Area IV Collocated Soil Sampling
TB-051711

LLI Sample # WW 6290811
LLI Group # 1247439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 17:00

Submitted: 05/18/2011 09:20
Reported: 06/04/2011 12:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB517 SDG#: DE153-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111441AA	05/24/2011 12:37	Emily R Styer	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111392AA	05/19/2011 22:41	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111392AA	05/19/2011 22:41	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111441AA	05/24/2011 12:37	Emily R Styer	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111401AA	Sample number(s): 6290803,6290805,6290807,6290809									
Acetone	6.7	U	6.7	8.0	ug/kg	136		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	103		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	103		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	125*		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	104		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	65		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	127		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	100		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	61		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	68		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	96		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	100		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	66		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	102		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	77		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	99		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	91		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	101		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	97		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	91		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	85		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	81		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	114		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	115		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	101		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	103		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	92		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.39	J	0.24	4.0	ug/kg	77		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	104		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	96		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	117		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	101		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	100		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	78		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	101		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	100		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	100		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	68		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	96		80-120		
Batch number: E111392AA	Sample number(s): 6290811									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101		80-123		
Batch number: E111432AA	Sample number(s): 6290803,6290805,6290807,6290809									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	110	107	70-130	3	30
Batch number: L111441AA	Sample number(s): 6290811									
Acetone	6	U	6.	20	ug/l	134	117	49-234	13	30
Benzene	0.5	U	0.5	5	ug/l	102	98	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	94	90	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	99	94	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	98	92	80-120	7	30
Bromoform	1	U	1.	5	ug/l	82	79	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	110	107	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	104	99	66-151	5	30
n-Butylbenzene	1	U	1.	5	ug/l	100	96	74-120	5	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	89	78-120	4	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	92	75-123	9	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	109	102	49-129	6	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	94	89	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	105	99	77-122	7	30
Chloromethane	1	U	1.	5	ug/l	104	103	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	92	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	93	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	57	56	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	89	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	94	87	80-120	7	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	95	80-120	6	30
Dibromomethane	1	U	1.	5	ug/l	100	93	80-120	7	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	91	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	91	88	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	99	79-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	105	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	92	89	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	92	80-120	7	30
1,2-Dichloropropane	1	U	1.	5	ug/l	100	93	78-120	6	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	95	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	90	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	95	80-120	8	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	91	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	88	79-120	6	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	95	79-120	5	30
Freon 113	2	U	2.	10	ug/l	95	87	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	96	96	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	80	79	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	93	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	100	95	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	89	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	93	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	91	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	98	93	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	91	80-120	7	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	100	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	92	80-121	5	30
Toluene	0.7	U	0.7	5	ug/l	100	95	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	88	85	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	83	81	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	101	96	75-127	5	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	95	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	112	105	64-129	7	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	94	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	94	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	90	75-120	6	30
Vinyl Chloride	1	U	1.	5	ug/l	103	101	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	94	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	97	92	80-120	5	30
Batch number: 11139SLG026	Sample number(s): 6290803-6290810									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	103		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	116		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	114		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	117		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	103		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	136		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	109		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	115		56-134		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	106		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	1.1	J	0.67	1.7	ug/kg	104		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	124		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11139SLH026	Sample number(s): 6290803-6290810									
Aniline	170 U		170.	500	ug/kg	71		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzoic acid	170 U		170.	500	ug/kg	69		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	98		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	91		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	91		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	87		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	44		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	44*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	24*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	92		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		68-105		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	101		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	84		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	105		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	66		51-117		
Phenol	17	U	17.	170	ug/kg	98		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	95		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 111390003A	Sample number(s): 6290808									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	103		70-130		
Batch number: 111390012A	Sample number(s): 6290803-6290810									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	95	87	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	105		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111391026001A	Sample number(s): 6290803-6290810									
Antimony	0.0600	U	0.0600	0.200	mg/kg	96		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	98		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	98		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	101		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	95		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	99		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	96		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	95		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	98		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	90		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	96		81-112		
Batch number: 111391026001B	Sample number(s): 6290803-6290810									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111391026001C	Sample number(s): 6290803-6290810									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	101		78-122		
Batch number: 111391026001D	Sample number(s): 6290803-6290810									
Barium	0.108	U	0.108	0.400	mg/kg	92		81-111		
Batch number: 111395708002	Sample number(s): 6290803-6290810									
Aluminum	5.03	U	5.03	20.0	mg/kg	85		61-110		

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Quality Control Summary

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Reported: 06/04/11 at 12:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Boron	0.890	U	0.890	5.00	mg/kg	100		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	94		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.29	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3	U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.65	J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	82		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111395711001	Sample number(s): 6290803-6290810									
Mercury	0.0027	U	0.0027	0.0942	mg/kg	91		88-123		
Batch number: 11143495201A	Sample number(s): 6290803-6290810									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 11143495202A	Sample number(s): 6290803-6290810									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	91		85-115		
Batch number: 11144243201A	Sample number(s): 6290803-6290810									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	87		80-120		
Batch number: 11143039402B	Sample number(s): 6290803-6290806									
18a pH by 9045C						100		95-105		
Batch number: 11143039403A	Sample number(s): 6290807-6290810									
18a pH by 9045C						100		95-105		
Batch number: 11144162401B	Sample number(s): 6290803-6290810									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111401AA	Sample number(s): 6290803,6290805,6290807,6290809 UNSPK: P288929								
Acetone	118	110	15-210	9	30				
Benzene	113	110	55-143	4	30				
Bromobenzene	109	108	43-139	2	30				
Bromochloromethane	132	126	60-137	7	30				
Bromodichloromethane	103	101	53-136	4	30				
Bromoform	97	97	38-124	2	30				
Bromomethane	68	65	42-168	8	30				
2-Butanone	110	106	37-163	6	30				
n-Butylbenzene	103	102	30-146	3	30				
sec-Butylbenzene	115	114	33-157	3	30				
tert-Butylbenzene	108	107	41-152	3	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbon Tetrachloride	122	117	45-153	6	30				
Chlorobenzene	105	104	49-135	4	30				
Chloroethane	65	60	39-152	10	30				
2-Chloroethyl Vinyl Ether	85	86	32-139	1	30				
Chloroform	110	107	61-142	5	30				
Chloromethane	79	79	51-163	2	30				
2-Chlorotoluene	107	104	42-146	5	30				
4-Chlorotoluene	102	100	39-145	4	30				
Chlorotrifluoroethene	81	81	70-130	23	30				
1,2-Dibromo-3-chloropropane	79	82	30-139	2	30				
Dibromochloromethane	103	100	51-128	5	30				
1,2-Dibromoethane	95	95	54-129	2	30				
Dibromomethane	96	96	57-130	3	30				
1,2-Dichlorobenzene	98	98	36-133	2	30				
1,3-Dichlorobenzene	104	103	34-134	3	30				
1,4-Dichlorobenzene	100	101	35-136	2	30				
Dichlorodifluoromethane	79	79	26-151	2	30				
1,1-Dichloroethane	114	111	63-142	5	30				
1,2-Dichloroethane	101	100	68-131	3	30				
1,1-Dichloroethene	92	86	61-149	9	30				
cis-1,2-Dichloroethene	107	106	60-136	4	30				
trans-1,2-Dichloroethene	112	108	59-142	6	30				
1,2-Dichloropropane	109	107	62-135	4	30				
1,3-Dichloropropane	97	97	58-129	3	30				
2,2-Dichloropropane	106	102	53-147	7	30				
1,1-Dichloropropene	116	112	54-145	6	30				
cis-1,3-Dichloropropene	98	98	51-131	2	30				
trans-1,3-Dichloropropene	89	90	49-129	1	30				
Ethylbenzene	104	103	44-141	4	30				
Freon 113	101	96	56-156	7	30				
Freon 133a	85	85	61-131	23	30				
Hexachlorobutadiene	109	112	10-155	0	30				
2-Hexanone	98	97	32-160	3	30				
Isopropylbenzene	109	106	38-144	5	30				
p-Isopropyltoluene	110	109	29-152	3	30				
Methyl Tertiary Butyl Ether	88	87	55-129	3	30				
4-Methyl-2-pentanone	83	86	46-139	1	30				
Methylene Chloride	82	79	61-141	5	30				
n-Propylbenzene	113	111	39-157	4	30				
Styrene	97	95	35-134	5	30				
1,1,1,2-Tetrachloroethane	107	104	52-130	4	30				
1,1,2,2-Tetrachloroethane	91	92	40-152	2	30				
Tetrachloroethene	126	122	42-149	6	30				
Toluene	109	106	50-146	5	30				
1,2,3-Trichlorobenzene	84	89	10-140	4	30				
1,2,4-Trichlorobenzene	80	85	10-136	5	30				
1,1,1-Trichloroethane	113	110	64-142	5	30				
1,1,2-Trichloroethane	98	97	54-139	3	30				
Trichloroethene	109	106	53-144	5	30				
Trichlorofluoromethane	89	85	47-163	7	30				
1,2,3-Trichloropropane	95	96	45-154	1	30				
1,2,4-Trimethylbenzene	105	103	37-149	4	30				
1,3,5-Trimethylbenzene	108	107	38-150	4	30				

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Quality Control Summary

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Reported: 06/04/11 at 12:49 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	79	80	50-154	2	30				
m+p-Xylene	106	103	44-137	5	30				
o-Xylene	101	99	42-137	4	30				
Batch number: E111392AA	Sample number(s): 6290811 UNSPK: P291146								
1,4-Dioxane	147*	135	73-138	9	30				
Batch number: E111432AA	Sample number(s): 6290803,6290805,6290807,6290809 UNSPK: P292036								
1,4-Dioxane	99	111	70-130	9	30				
Batch number: 11139SLG026	Sample number(s): 6290803-6290810 UNSPK: P288929								
Acenaphthene	93	92	63-105	2	30				
Acenaphthylene	90	86	67-114	4	30				
Anthracene	94	94	60-122	0	30				
Benzo(a)anthracene	100	103	59-128	3	30				
Benzo(a)pyrene	99	103	45-138	4	30				
Benzo(b)fluoranthene	111	111	43-155	1	30				
Benzo(g,h,i)perylene	110	113	33-141	3	30				
Benzo(k)fluoranthene	101	103	42-144	1	30				
Butylbenzylphthalate	112	115	57-173	3	30				
Di-n-butylphthalate	107	110	65-148	2	30				
Chrysene	99	104	48-134	6	30				
Dibenz(a,h)anthracene	111	113	22-133	2	30				
Diethylphthalate	101	96	70-136	5	30				
Dimethylphthalate	99	96	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	132	136	39-167	3	30				
Fluoranthene	103	107	26-166	4	30				
Fluorene	99	96	66-122	3	30				
Indeno(1,2,3-cd)pyrene	110	112	21-143	2	30				
1-Methylnaphthalene	98	92	72-123	6	30				
2-Methylnaphthalene	87	82	64-103	6	30				
Naphthalene	97	85	61-102	12	30				
N-Nitrosodimethylamine	87	79	48-113	11	30				
Di-n-octylphthalate	124	123	40-192	0	30				
Phenanthrene	93	96	12-165	3	30				
Pyrene	97	99	15-153	2	30				
Batch number: 11139SLH026	Sample number(s): 6290803-6290810 UNSPK: P288929								
Aniline	83	76	35-95	9	30				
Benzidine	32*	22*	35-141	36*	30				
Benzoic acid	62	52	10-173	18	30				
Benzyl alcohol	95	93	67-115	3	30				
4-Bromophenyl-phenylether	93	98	67-129	6	30				
Butylbenzylphthalate	95	96	73-134	1	30				
Di-n-butylphthalate	90	91	67-123	0	30				
Carbazole	93	95	64-120	2	30				
4-Chloro-3-methylphenol	94	91	76-110	3	30				
4-Chloroaniline	73	67	23-95	8	30				
bis(2-Chloroethoxy)methane	95	93	75-104	3	30				
bis(2-Chloroethyl)ether	93	91	60-116	2	30				
bis(2-Chloroisopropyl)ether	90	85	55-142	5	30				
2-Chloronaphthalene	89	90	50-141	2	30				
2-Chlorophenol	96	94	73-121	2	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chlorophenyl-phenylether	93	98	80-109	5	30				
Dibenzofuran	96	98	71-112	2	30				
1,2-Dichlorobenzene	86	82	66-108	5	30				
1,3-Dichlorobenzene	84	77	63-109	8	30				
1,4-Dichlorobenzene	85	79	70-100	8	30				
3,3'-Dichlorobenzidine	68	63	16-119	8	30				
2,4-Dichlorophenol	98	97	78-117	0	30				
Diethylphthalate	91	92	66-118	1	30				
2,4-Dimethylphenol	94	91	78-110	3	30				
3,5-Dimethylphenol	103	102	70-130	1	30				
Dimethylphthalate	94	95	64-118	1	30				
4,6-Dinitro-2-methylphenol	56	39	24-116	35*	30				
2,4-Dinitrophenol	29	18*	20-143	48*	30				
2,4-Dinitrotoluene	98	96	73-113	2	30				
2,6-Dinitrotoluene	96	97	69-123	0	30				
1,2-Diphenylhydrazine	98	100	71-129	2	30				
bis(2-Ethylhexyl)phthalate	90	91	63-122	1	30				
Hexachlorobenzene	95	94	77-114	2	30				
Hexachlorobutadiene	86	84	62-120	2	30				
Hexachlorocyclopentadiene	87	88	10-153	1	30				
Hexachloroethane	79	73	57-109	8	30				
Isophorone	94	92	73-102	2	30				
2-Methylphenol	94	92	75-111	2	30				
4-Methylphenol	100	97	71-111	3	30				
2-Nitroaniline	98	99	67-125	1	30				
3-Nitroaniline	93	94	59-122	1	30				
4-Nitroaniline	81	78	52-112	4	30				
Nitrobenzene	93	91	72-106	3	30				
2-Nitrophenol	93	93	74-115	0	30				
4-Nitrophenol	83	83	54-113	0	30				
N-Nitroso-di-n-propylamine	87	86	60-116	1	30				
N-Nitrosodiphenylamine	97	97	86-145	0	30				
Di-n-octylphthalate	98	100	56-126	1	30				
Pentachlorophenol	69	60	28-127	15	30				
Phenol	97	95	58-126	2	30				
1,2,4-Trichlorobenzene	92	89	72-115	4	30				
2,4,5-Trichlorophenol	94	94	78-109	1	30				
2,4,6-Trichlorophenol	96	98	77-115	2	30				
Batch number: 111390003A	Sample number(s): 6290808 UNSPK: P285036								
6a Perchlorate EPA 6850	100	102	80-120	2	20				
Batch number: 111390012A	Sample number(s): 6290803-6290810 UNSPK: 6290803								
PCB-1016	96	108	29-146	12	50				
PCB-1260	106	96	39-149	9	50				
Batch number: 111391026001A	Sample number(s): 6290803-6290810 UNSPK: P285036 BKG: P285036								
Antimony	46*	63*	75-125	25*	20	0.170 J	0.157 J	8 (1)	20
Arsenic	165*	213*	75-125	12	20	4.09	4.62	12	20
Beryllium	126*	142*	75-125	8	20	0.580	0.524	10	20
Cadmium	126*	130*	75-125	2	20	0.231	0.186	22* (1)	20
Chromium	127*	146*	75-125	6	20	18.8	17.0	11	20
Cobalt	117	146*	75-125	20	20	6.77	7.41	9	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Copper	125	150*	75-125	10	20	11.5	9.84	16	20
Lead	238 (2)	330 (2)	75-125	13	20	13.0	10.4	22*	20
Nickel	130*	170*	75-125	14	20	12.9	11.4	13	20
Silver	123	131*	75-125	7	20	0.0345 J	0.0583 J	52* (1)	20
Thallium	104	129*	75-125	13	20	0.275	0.222	21* (1)	20
Vanadium	157*	209*	75-125	10	20	33.7	30.6	10	20
Zinc	150 (2)	268 (2)	75-125	15	20	58.3	51.6	12	20
Batch number: 111391026001B	Sample number(s): 6290803-6290810 UNSPK: P285036 BKG: P285036								
Selenium	109	119	75-125	9	20	0.148 J	0.109 J	30* (1)	20
Batch number: 111391026001C	Sample number(s): 6290803-6290810 UNSPK: P285036 BKG: P285036								
Molybdenum	114	125	75-125	9	20	0.523	0.547	4	20
Batch number: 111391026001D	Sample number(s): 6290803-6290810 UNSPK: P285036 BKG: P285036								
Barium	220 (2)	382 (2)	75-125	11	20	110	98.0	12	20
Batch number: 111395708002	Sample number(s): 6290803-6290810 UNSPK: P285036 BKG: P285036								
Aluminum	2046 (2)	1418 (2)	75-125	7	20	14,500	13,200	10	20
Boron	98	97	84-115	2	20	12.2	11.0	11 (1)	20
Calcium	349 (2)	46 (2)	75-125	27*	20	3,630	3,830	5	20
Iron	1062 (2)	257 (2)	75-125	4	20	20,000	18,600	7	20
Lithium	103	101	82-114	1	20	17.4	15.5	12	20
Magnesium	338 (2)	199 (2)	75-125	6	20	4,110	3,820	7	20
Manganese	169 (2)	121 (2)	75-125	8	20	234	250	7	20
Phosphorus	591*	156*	75-125	68*	20	255	256	0	20
Potassium	128*	134*	75-125	2	20	2,130	2,290	7	20
Sodium	106	100	75-125	5	20	77.7 J	80.4 J	3 (1)	20
Strontium	98	96	75-115	2	20	25.4	22.8	11	20
Tin	90	88	80-110	2	20	2.59 J	2.38 J	8 (1)	20
Titanium	243 (2)	324 (2)	75-125	7	20	907	914	1	20
Zirconium	98	97	75-125	0	20	0.977 J	1.84 J	61* (1)	20
Batch number: 111395711001	Sample number(s): 6290803-6290810 UNSPK: P285036 BKG: P285036								
Mercury	83	74	65-135	13	20	0.0029 U	0.0028 U	0 (1)	20
Batch number: 11143495201A	Sample number(s): 6290803-6290810 UNSPK: 6290803 BKG: 6290803								
11a Anions by 300.0 - Fluoride	114		80-120			4.3	4.5	5 (1)	20
Batch number: 11143495202A	Sample number(s): 6290803-6290810 UNSPK: 6290803 BKG: 6290803								
7a Perchlorate EPA 314.0	91		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11144243201A	Sample number(s): 6290803-6290810 UNSPK: 6290807 BKG: 6290807								
3a Cr VI by EPA 7199	88		75-125			0.20 U	0.86 J	200* (1)	20
Batch number: 11143039402B	Sample number(s): 6290803-6290806 BKG: 6290803								
18a pH by 9045C						8.48	8.52	0	3
Batch number: 11143039403A	Sample number(s): 6290807-6290810 BKG: P291993								
18a pH by 9045C						8.22	8.24	0	3

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11144162401B	Sample number(s): 6290803-6290810					BKG: P290756			
Moisture Content by 160.3						10.5	10.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6290803	106	109	100	92
6290805	105	103	100	90
6290807	106	106	99	88
6290809	104	104	101	90
Blank	103	103	100	91
LCS	104	109	103	98
MS	102	104	105	96
MSD	102	103	104	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111392AA

	Toluene-d8
6290811	106
Blank	105
LCS	107
MS	107
MSD	107
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111432AA

	Toluene-d8
6290803	98
6290805	98
6290807	98
6290809	97
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98
Limits:	70-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6290811	103	102	102	99
Blank	105	101	101	100
LCS	104	104	103	104
LCSD	104	100	102	103
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11139SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290803	103	96	101
6290804	96	89	100
6290805	102	95	102
6290806	99	95	98
6290807	90	95	95
6290808	98	92	97
6290809	105	99	97
6290810	109	100	98
Blank	101	103	106
LCS	121	104	105
MS	110	95	100
MSD	103	95	106
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11139SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6290803	92	92	71	84	85	91
6290804	88	88	63	82	83	91
6290805	84	83	69	80	85	94
6290806	90	91	65	84	84	90
6290807	95	97	71	87	91	87
6290808	90	91	68	83	88	97
6290809	90	89	66	83	90	90
6290810	90	89	66	86	91	90
Blank	86	91	81	84	87	80
LCS	95	95	84	89	90	89
MS	96	96	88	89	91	89
MSD	96	96	91	88	93	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111390012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6290803	95	103
6290804	96	104
6290805	101	104

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247439
Reported: 06/04/11 at 12:49 PM

Surrogate Quality Control

6290806	103	107
6290807	86	79
6290808	110	107
6290809	95	80
6290810	106	96
Blank	95	102
LCS	96	105
LCSD	106	113
MS	98	114
MSD	92	99
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1247439 6290803-11

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	**Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $ -	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA5DN-SB-6.0	05.17.11	1154	SOIL	NONE	4-Encores										X	X										Electronic COC without "Relinquished by" Signature. NM 5/24/11
SL-001-SA5DN-SB-5.5-6.5	05.17.11	1204	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-001-SA5DN-SB-9.0-10.0	05.17.11	1158	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-005-SA5DN-SB-4.5	05.17.11	0958	SOIL	NONE	4-Encores										X	X										
SL-005-SA5DN-SB-4.0-5.0	05.17.11	1004	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-005-SA5DN-SB-9.0-10.0	05.17.11	1008	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-068-SA5DN-SB-4.5	05.17.11	1605	SOIL	NONE	4-Encores										X	X										
SL-068-SA5DN-SB-4.0-5.0	05.17.11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-068-SA5DN-SB-9.0-10.0	05.17.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X												
SL-073-SA5DN-SB-4.5	05.17.11	1515	SOIL	NONE	4-Encores										X	X										
SL-073-SA5DN-SB-4.0-5.0	05.17.11	1519	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
SL-073-SA5DN-SB-9.0-10.0	05.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X													
TB-051711	05.17.11	1700	WATER	HCL	4-40 mL VOA VIALS										X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

13013 ~~1247434~~ ~~G290752-70~~
1247439 G290803-11
NLM 5/24/11

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH—3RO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA5DN-SB-6.0	05.17.11	1154	SOIL	NONE	4-Encores										X	X											
SL-001-SA5DN-SB-5.5-6.5	05.17.11	1204	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-001-SA5DN-SB-9.0-10.0	05.17.11	1158	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-4.5	05.17.11	0958	SOIL	NONE	4-Encores										X	X											
SL-005-SA5DN-SB-4.0-5.0	05.17.11	1004	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-9.0-10.0	05.17.11	1008	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-4.5	05.17.11	1605	SOIL	NONE	4-Encores										X	X											
SL-068-SA5DN-SB-4.0-5.0	05.17.11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-9.0-10.0	05.17.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-4.5	05.17.11	1515	SOIL	NONE	4-Encores										X	X											
SL-073-SA5DN-SB-4.0-5.0	05.17.11	1519	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-9.0-10.0	05.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-051711	05.17.11	1700	WATER	HCl	4-40 mL VOA VIALS										X	X											TRIP BLANK

This is the signed, hard copy COC that was in the Cooler upon arrival.
NLM 5/24/11

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No(s)**	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/18/2011
Group Number: 1247440
SDG: DX083
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA5DN-SB-5.5-6.5 Soil	6290812
SL-001-SA5DN-SB-9.0-10.0 Soil	6290813
SL-005-SA5DN-SB-4.0-5.0 Soil	6290814
SL-005-SA5DN-SB-9.0-10.0 Soil	6290815
SL-068-SA5DN-SB-4.0-5.0 Soil	6290816
SL-068-SA5DN-SB-9.0-10.0 Soil	6290817
SL-073-SA5DN-SB-4.0-5.0 Soil	6290818
SL-073-SA5DN-SB-9.0-10.0 Soil	6290819

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290812
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0015 SDG#: DX083-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290812
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0015 SDG#: DX083-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0240 U	0.0240	1.16	1
11031	12378-PeCDD	40321-76-4	0.0994 JBQ	0.0209	5.82	1
11031	123478-HxCDD	39227-28-6	0.0823 JB	0.0238	5.82	1
11031	123678-HxCDD	57653-85-7	0.174 JBQ	0.0251	5.82	1
11031	123789-HxCDD	19408-74-3	0.319 JB	0.0230	5.82	1
11031	1234678-HpCDD	35822-46-9	0.631 JB	0.0338	5.82	1
11031	OCDD	3268-87-9	3.10 JB	0.0368	11.6	1
11031	2378-TCDF	51207-31-9	0.0239 U	0.0239	1.16	1
11031	12378-PeCDF	57117-41-6	0.116 JB	0.0113	5.82	1
11031	23478-PeCDF	57117-31-4	0.0914 JBQ	0.0110	5.82	1
11031	123478-HxCDF	70648-26-9	0.0678 JB	0.0210	5.82	1
11031	123678-HxCDF	57117-44-9	0.0750 JBQ	0.0182	5.82	1
11031	123789-HxCDF	72918-21-9	0.430 JBQ	0.0211	5.82	1
11031	234678-HxCDF	60851-34-5	0.0773 JBQ	0.0171	5.82	1
11031	1234678-HpCDF	67562-39-4	0.140 JB	0.0129	5.82	1
11031	1234789-HpCDF	55673-89-7	0.103 JBQ	0.0184	5.82	1
11031	OCDF	39001-02-0	0.270 JB	0.0385	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	68	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290812
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0015 SDG#: DX083-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-001-SA5DN-SB-5.5-6.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-5.5-6.5

LLI Sample # SW 6290812
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 12:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0015 SDG#: DX083-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 18:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290813
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0019 SDG#: DX083-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290813
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0019 SDG#: DX083-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0250 JBQ	0.0202	1.12	1
11031	12378-PeCDD	40321-76-4	0.0458 JB	0.0214	5.59	1
11031	123478-HxCDD	39227-28-6	0.0331 JB	0.0165	5.59	1
11031	123678-HxCDD	57653-85-7	0.0565 JB	0.0177	5.59	1
11031	123789-HxCDD	19408-74-3	0.0702 JBQ	0.0164	5.59	1
11031	1234678-HpCDD	35822-46-9	0.286 JB	0.0223	5.59	1
11031	OCDD	3268-87-9	0.869 JB	0.0290	11.2	1
11031	2378-TCDF	51207-31-9	0.0256 JBQ	0.0193	1.12	1
11031	12378-PeCDF	57117-41-6	0.0588 JB	0.00942	5.59	1
11031	23478-PeCDF	57117-31-4	0.0834 JBQ	0.00908	5.59	1
11031	123478-HxCDF	70648-26-9	0.0857 JB	0.0129	5.59	1
11031	123678-HxCDF	57117-44-9	0.0518 JBQ	0.0117	5.59	1
11031	123789-HxCDF	72918-21-9	0.0881 JBQ	0.0151	5.59	1
11031	234678-HxCDF	60851-34-5	0.0649 JBQ	0.0120	5.59	1
11031	1234678-HpCDF	67562-39-4	0.103 JBQ	0.00930	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0844 JBQ	0.0140	5.59	1
11031	OCDF	39001-02-0	0.195 JBQ	0.0287	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290813
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0019 SDG#: DX083-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290813
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 11:58

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0019 SDG#: DX083-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 19:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290814
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0054 SDG#: DX083-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290814
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0054 SDG#: DX083-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367 JBQ	0.0216	1.16	1
11031	12378-PeCDD	40321-76-4	0.0502 JBQ	0.0205	5.78	1
11031	123478-HxCDD	39227-28-6	0.0429 JB	0.0164	5.78	1
11031	123678-HxCDD	57653-85-7	0.0599 JBQ	0.0170	5.78	1
11031	123789-HxCDD	19408-74-3	0.105 JBQ	0.0161	5.78	1
11031	1234678-HpCDD	35822-46-9	0.311 JBQ	0.0267	5.78	1
11031	OCDD	3268-87-9	0.733 JB	0.0266	11.6	1
11031	2378-TCDF	51207-31-9	0.0305 JBQ	0.0202	1.16	1
11031	12378-PeCDF	57117-41-6	0.0591 JBQ	0.00980	5.78	1
11031	23478-PeCDF	57117-31-4	0.0934 JBQ	0.00980	5.78	1
11031	123478-HxCDF	70648-26-9	0.0667 JBQ	0.0148	5.78	1
11031	123678-HxCDF	57117-44-9	0.0508 JBQ	0.0132	5.78	1
11031	123789-HxCDF	72918-21-9	0.130 JBQ	0.0152	5.78	1
11031	234678-HxCDF	60851-34-5	0.0670 JB	0.0133	5.78	1
11031	1234678-HpCDF	67562-39-4	0.115 JBQ	0.0115	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0578 JBQ	0.0179	5.78	1
11031	OCDF	39001-02-0	0.216 JB	0.0301	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290814
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0054 SDG#: DX083-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290814
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:04

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0054 SDG#: DX083-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 20:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290815
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0059 SDG#: DX083-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290815
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0059 SDG#: DX083-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0237 U	0.0237	1.13	1
11031	12378-PeCDD	40321-76-4	0.0685 JBQ	0.0238	5.64	1
11031	123478-HxCDD	39227-28-6	0.0414 JBQ	0.0172	5.64	1
11031	123678-HxCDD	57653-85-7	0.0311 JBQ	0.0179	5.64	1
11031	123789-HxCDD	19408-74-3	0.0649 JBQ	0.0164	5.64	1
11031	1234678-HpCDD	35822-46-9	0.258 JBQ	0.0263	5.64	1
11031	OCDD	3268-87-9	0.628 JB	0.0292	11.3	1
11031	2378-TCDF	51207-31-9	0.0253 U	0.0253	1.13	1
11031	12378-PeCDF	57117-41-6	0.0553 JBQ	0.0113	5.64	1
11031	23478-PeCDF	57117-31-4	0.0925 JB	0.0118	5.64	1
11031	123478-HxCDF	70648-26-9	0.0724 JBQ	0.0155	5.64	1
11031	123678-HxCDF	57117-44-9	0.0499 JBQ	0.0137	5.64	1
11031	123789-HxCDF	72918-21-9	0.0660 JBQ	0.0165	5.64	1
11031	234678-HxCDF	60851-34-5	0.0475 JBQ	0.0143	5.64	1
11031	1234678-HpCDF	67562-39-4	0.113 JB	0.0113	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0765 JB	0.0185	5.64	1
11031	OCDF	39001-02-0	0.258 JBQ	0.0356	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-005-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290815
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0059 SDG#: DX083-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290815
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 10:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0059 SDG#: DX083-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 21:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290816
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0684 SDG#: DX083-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290816
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0684 SDG#: DX083-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0227 JBQ	0.0146	1.11	1
11031	12378-PeCDD	40321-76-4	0.0677 JBQ	0.0177	5.55	1
11031	123478-HxCDD	39227-28-6	0.0507 JB	0.0149	5.55	1
11031	123678-HxCDD	57653-85-7	0.0552 JBQ	0.0151	5.55	1
11031	123789-HxCDD	19408-74-3	0.112 JBQ	0.0143	5.55	1
11031	1234678-HpCDD	35822-46-9	0.251 JB	0.0220	5.55	1
11031	OCDD	3268-87-9	0.683 JBQ	0.0242	11.1	1
11031	2378-TCDF	51207-31-9	0.0165 JBQ	0.0122	1.11	1
11031	12378-PeCDF	57117-41-6	0.0460 JBQ	0.00774	5.55	1
11031	23478-PeCDF	57117-31-4	0.0610 JBQ	0.00706	5.55	1
11031	123478-HxCDF	70648-26-9	0.0582 JBQ	0.00975	5.55	1
11031	123678-HxCDF	57117-44-9	0.0590 JB	0.00897	5.55	1
11031	123789-HxCDF	72918-21-9	0.0830 JBQ	0.0107	5.55	1
11031	234678-HxCDF	60851-34-5	0.0642 JBQ	0.00897	5.55	1
11031	1234678-HpCDF	67562-39-4	0.111 JB	0.00830	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0673 JB	0.0104	5.55	1
11031	OCDF	39001-02-0	0.152 JB	0.0280	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290816
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0684 SDG#: DX083-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-068-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290816
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:08

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0684 SDG#: DX083-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 22:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

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Analysis Report

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290817
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0689 SDG#: DX083-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290817
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0689 SDG#: DX083-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0470 JBQ	0.0188	1.13	1
11031	12378-PeCDD	40321-76-4	0.188 JBQ	0.0207	5.64	1
11031	123478-HxCDD	39227-28-6	0.0978 JB	0.0157	5.64	1
11031	123678-HxCDD	57653-85-7	0.104 JBQ	0.0164	5.64	1
11031	123789-HxCDD	19408-74-3	0.114 JB	0.0158	5.64	1
11031	1234678-HpCDD	35822-46-9	0.240 JBQ	0.0221	5.64	1
11031	OCDD	3268-87-9	0.477 JB	0.0247	11.3	1
11031	2378-TCDF	51207-31-9	0.0365 JBQ	0.0179	1.13	1
11031	12378-PeCDF	57117-41-6	0.224 JBQ	0.0106	5.64	1
11031	23478-PeCDF	57117-31-4	0.217 JB	0.0106	5.64	1
11031	123478-HxCDF	70648-26-9	0.159 JBQ	0.0158	5.64	1
11031	123678-HxCDF	57117-44-9	0.147 JB	0.0144	5.64	1
11031	123789-HxCDF	72918-21-9	0.143 JB	0.0181	5.64	1
11031	234678-HxCDF	60851-34-5	0.124 JB	0.0149	5.64	1
11031	1234678-HpCDF	67562-39-4	0.152 JB	0.00855	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0774 JBQ	0.0139	5.64	1
11031	OCDF	39001-02-0	0.169 JBQ	0.0262	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-068-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290817
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0689 SDG#: DX083-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-068-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290817
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 16:11

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0689 SDG#: DX083-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/03/2011 23:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290818
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0734 SDG#: DX083-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290818
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0734 SDG#: DX083-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0375	JBQ	0.0163	1.13	1
11031	12378-PeCDD	40321-76-4	0.211	JB	0.0200	5.64	1
11031	123478-HxCDD	39227-28-6	0.138	JB	0.0213	5.64	1
11031	123678-HxCDD	57653-85-7	0.157	JB	0.0221	5.64	1
11031	123789-HxCDD	19408-74-3	0.200	JBQ	0.0208	5.64	1
11031	1234678-HpCDD	35822-46-9	0.382	JB	0.0226	5.64	1
11031	OCDD	3268-87-9	0.850	JB	0.0245	11.3	1
11031	2378-TCDF	51207-31-9	0.0433	JBQ	0.0141	1.13	1
11031	12378-PeCDF	57117-41-6	0.159	JBQ	0.0102	5.64	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.00973	5.64	1
11031	123478-HxCDF	70648-26-9	0.158	JBQ	0.0178	5.64	1
11031	123678-HxCDF	57117-44-9	0.161	JBQ	0.0164	5.64	1
11031	123789-HxCDF	72918-21-9	0.221	JB	0.0173	5.64	1
11031	234678-HxCDF	60851-34-5	0.165	JB	0.0164	5.64	1
11031	1234678-HpCDF	67562-39-4	0.241	JB	0.0117	5.64	1
11031	1234789-HpCDF	55673-89-7	0.158	JB	0.0147	5.64	1
11031	OCDF	39001-02-0	0.334	JBQ	0.0267	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290818
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0734 SDG#: DX083-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-4.0-5.0

LLI Sample # SW 6290818
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:19

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0734 SDG#: DX083-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 03:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290819
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0739 SDG#: DX083-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290819
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0739 SDG#: DX083-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0169 JBQ	0.0168	1.10	1
11031	12378-PeCDD	40321-76-4	0.0704 JBQ	0.0187	5.51	1
11031	123478-HxCDD	39227-28-6	0.0253 JBQ	0.0136	5.51	1
11031	123678-HxCDD	57653-85-7	0.0482 JBQ	0.0142	5.51	1
11031	123789-HxCDD	19408-74-3	0.0716 JBQ	0.0136	5.51	1
11031	1234678-HpCDD	35822-46-9	0.249 JB	0.0206	5.51	1
11031	OCDD	3268-87-9	0.564 JBQ	0.0233	11.0	1
11031	2378-TCDF	51207-31-9	0.0144 U	0.0144	1.10	1
11031	12378-PeCDF	57117-41-6	0.0473 JB	0.00849	5.51	1
11031	23478-PeCDF	57117-31-4	0.0914 JB	0.00838	5.51	1
11031	123478-HxCDF	70648-26-9	0.0495 JB	0.0104	5.51	1
11031	123678-HxCDF	57117-44-9	0.0526 JBQ	0.00974	5.51	1
11031	123789-HxCDF	72918-21-9	0.0682 JB	0.0108	5.51	1
11031	234678-HxCDF	60851-34-5	0.0629 JBQ	0.00963	5.51	1
11031	1234678-HpCDF	67562-39-4	0.148 JB	0.00940	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0751 JB	0.0126	5.51	1
11031	OCDF	39001-02-0	0.201 JB	0.0270	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290819
LLI Group # 1247440
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/17/2011 15:25

Submitted: 05/18/2011 09:20
Reported: 06/07/2011 21:43

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0739 SDG#: DX083-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-073-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA5DN-SB-9.0-10.0

LLI Sample # SW 6290819
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Collected: 05/17/2011 15:25

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0739 SDG#: DX083-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 04:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11144162401B	05/24/2011 17:32	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247440
Reported: 06/07/11 at 09:43 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11144162401B	Sample number(s): 6290812-6290819								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11151002	Sample number(s): 6290812-6290819								
2378-TCDD	0.0427 J	0.0189	1.00	ng/kg	96		67-158		
12378-PeCDD	0.125 J	0.0193	5.00	ng/kg	101		70-142		
123478-HxCDD	0.107 J	0.0183	5.00	ng/kg	101		70-164		
123678-HxCDD	0.114 J	0.0190	5.00	ng/kg	105		76-134		
123789-HxCDD	0.149 J	0.0185	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.286 J	0.0221	5.00	ng/kg	101		70-140		
OCDD	0.448 J	0.0200	10.0	ng/kg	100		78-144		
2378-TCDF	0.0225 J	0.0181	1.00	ng/kg	107		75-158		
12378-PeCDF	0.132 J	0.0101	5.00	ng/kg	100		80-134		
23478-PeCDF	0.151 J	0.0100	5.00	ng/kg	100		68-160		
123478-HxCDF	0.144 J	0.0190	5.00	ng/kg	100		72-134		
123678-HxCDF	0.124 J	0.0165	5.00	ng/kg	100		84-130		
123789-HxCDF	0.206 J	0.0177	5.00	ng/kg	100		78-130		
234678-HxCDF	0.134 J	0.0149	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.161 J	0.0106	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.174 J	0.0139	5.00	ng/kg	100		78-138		
OCDF	0.332 J	0.0253	10.0	ng/kg	100		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11144162401B	Sample number(s): 6290812-6290819					BKG: P290756			
Moisture Content by 160.3						10.5	10.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247440
Reported: 06/07/11 at 09:43 PM

Surrogate Quality Control

Batch number: 11151002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6290812	56	60	52	59	61	59
6290813	61	65	60	65	63	61
6290814	64	68	63	70	68	68
6290815	54	58	55	61	59	59
6290816	78	80	75	77	78	79
6290817	79	82	77	85	81	77
6290818	80	78	75	77	78	88
6290819	75	77	72	75	77	78
Blank	73	78	65	72	81	82
OPR	62	66	61	66	69	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6290812	68	58	55	68	64	63
6290813	74	61	58	75	69	66
6290814	80	64	61	77	72	70
6290815	75	58	55	72	63	63
6290816	82	78	74	81	80	79
6290817	97	74	70	90	88	86
6290818	82	79	73	83	79	79
6290819	82	75	72	80	79	76
Blank	86	78	77	92	80	83
OPR	76	67	65	79	68	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6290812	59	66	67	67	53	66
6290813	64	66	69	67	59	69
6290814	70	72	75	73	60	71
6290815	62	64	68	67	49	64
6290816	78	80	80	79	76	82
6290817	85	86	88	83	73	88
6290818	77	80	81	78	78	81
6290819	75	77	80	77	75	82
Blank	80	84	88	89	70	80
OPR	66	73	74	73	60	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/1247440 /6290812-19

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																											Electronic COC without "Relinquished by" signature. NM 5/24/11
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-001-SA5DN-SB-6.0	05.17.11	1154	SOIL	NONE	4-Encores										X	X											
SL-001-SA5DN-SB-5.5-6.5	05.17.11	1204	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-001-SA5DN-SB-9.0-10.0	05.17.11	1156	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-4.5	05.17.11	0958	SOIL	NONE	4-Encores										X	X											
SL-005-SA5DN-SB-4.0-5.0	05.17.11	1004	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-9.0-10.0	05.17.11	1008	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-4.5	05.17.11	1605	SOIL	NONE	4-Encores										X	X											
SL-068-SA5DN-SB-4.0-5.0	05.17.11	1606	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-9.0-10.0	05.17.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-073-SA5DN-SB-4.5	05.17.11	1515	SOIL	NONE	4-Encores										X	X											
SL-073-SA5DN-SB-4.0-5.0	05.17.11	1519	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-9.0-10.0	05.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-051711	05.17.11	1700	WATER	HCl	4-40 mL VOA VIALS										X	X											TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 05/17/2011 / 1700		Received for Laboratory by: (*Signature*) 5/18/11 920																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825																								

13013 ~~1247134 0290752-70~~

1247440 0290812-19
NM 5/24/11

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	*Perchlorate Confirmation by EPA 6850 (10%)	VOCs: *VOCs/EPA 8260B $	*1,4-Dioxane EPA 8260SIM $	*TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA5DN-SB-6.0	05.17.11	1154	SOIL	NONE	4-Encores										X	X											
SL-001-SA5DN-SB-5.5-6.5	05.17.11	1204	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-001-SA5DN-SB-9.0-10.0	05.17.11	1158	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-4.5	05.17.11	0958	SOIL	NONE	4-Encores										X	X											
SL-005-SA5DN-SB-4.0-5.0	05.17.11	1004	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-005-SA5DN-SB-9.0-10.0	05.17.11	1008	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-4.5	05.17.11	1605	SOIL	NONE	4-Encores										X	X											
SL-068-SA5DN-SB-4.0-5.0	05.17.11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-068-SA5DN-SB-9.0-10.0	05.17.11	1611	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-4.5	05.17.11	1515	SOIL	NONE	4-Encores										X	X											
SL-073-SA5DN-SB-4.0-5.0	05.17.11	1519	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-073-SA5DN-SB-9.0-10.0	05.17.11	1525	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-051711	05.17.11	1700	WATER	HCl	4-40 mL VOA VIALS										X	X											TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/17/2011 / 1700	5/18/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8695 1441 7799; 8695 1441 7803 8695 1441 7814; 8695 1441 7825	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/19/2011
Group Number: 1247619
SDG: DE154
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-054-SA5DN-SS-0.0-0.5 Soil	6291989
SL-055-SA5DN-SS-0.0-0.5 Soil	6291990
SL-056-SA5DN-SS-0.0-0.5 Soil	6291991
SL-058-SA5DN-SS-0.0-0.5 Soil	6291992
SL-059-SA5DN-SS-0.0-0.5 Soil	6291993
SL-064-SA5DN-SS-0.0-0.5 Soil	6291994
SL-065-SA5DN-SS-0.0-0.5 Soil	6291995
SL-086-SA5DN-SS-0.0-0.5 Soil	6291996
SL-087-SA5DN-SS-0.0-0.5 Soil	6291997
SL-088-SA5DN-SS-0.0-0.5 Soil	6291998
SL-089-SA5DN-SS-0.0-0.5 Soil	6291999
SL-089-SA5DN-SS-0.0-0.5MS Soil	6292000
SL-089-SA5DN-SS-0.0-0.5MSD Soil	6292001
SL-089-SA5DN-SS-0.0-0.5DUP Soil	6292002
SL-090-SA5DN-SS-0.0-0.5 Soil	6292003
SL-202-SA5DN-SS-0.0-0.5 Soil	6292004
DUP-02-SA5DN-QC-051811 Soil	6292005
EB02-SA5DN-SS-051811 Water	6292006

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291989
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:50

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE154-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	27	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	23	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	54	J	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Chrysene	218-01-9	23	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	19	370		1
04688	Fluoranthene	206-44-0	22	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

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SL054 SDG#: DE154-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	25	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.3		5
10138	Benzo(a)pyrene	50-32-8	4.6	J	3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	7.1	J	3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	J	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

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SL054 SDG#: DE154-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	2.2	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.38		1
01363	p,p-DDE	72-55-9	0.35	U	0.35	0.38		1
01363	p,p-DDT	50-29-3	1.9		0.075	0.38		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38		1
01363	Endrin	72-20-8	0.075	U	0.075	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.88		0.075	0.38		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	12		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,600		5.68	22.6		1
07914	Boron	7440-42-8	21.3		1.01	5.65		1
01650	Calcium	7440-70-2	24,000		6.93	22.6		1
01654	Iron	7439-89-6	26,300		5.32	22.6		1
01656	Lithium	7439-93-2	20.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,010		2.87	11.3		1
06958	Manganese	7439-96-5	359		0.0881	0.565		1

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Analysis Report

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SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291989
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SL054 SDG#: DE154-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	472		0.633	11.3		1
01662	Potassium	7440-09-7	3,970		20.3	56.5		1
01667	Sodium	7440-23-5	122		42.1	113		1
07968	Strontium	7440-24-6	39.9		0.0701	0.565		1
06969	Tin	7440-31-5	2.51	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,150		0.429	1.13		1
10146	Zirconium	7440-67-7	3.27	J	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.217	J	0.0658	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.57		0.0878	0.439		2
06126	Barium	7440-39-3	145		0.118	0.439		2
06127	Beryllium	7440-41-7	0.741		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.280		0.0439	0.110		2
06131	Chromium	7440-47-3	29.0		0.132	0.439		2
06132	Cobalt	7440-48-4	10.3		0.0219	0.110		2
06133	Copper	7440-50-8	18.0		0.0724	0.439		2
06135	Lead	7439-92-1	14.9		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.417		0.0549	0.110		2
06139	Nickel	7440-02-0	19.3		0.110	0.439		2
06141	Selenium	7782-49-2	0.0860	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0488	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.306		0.0329	0.110		2
06148	Vanadium	7440-62-2	59.9		0.0241	0.110		2
06149	Zinc	7440-66-6	79.9		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1

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Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011	02:43	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011	11:15	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011	04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011	04:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011	19:50	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011	19:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011	06:30	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011	16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011	01:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011	11:53	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011	11:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011	11:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011	11:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011	11:10	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-054-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291989
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:50

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL054 SDG#: DE154-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026004A	06/06/2011 22:27	David K Beck	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 20:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11144621201A	06/01/2011 20:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11143243201A	05/25/2011 02:25	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291990
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE154-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	J	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291990
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE154-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	32		3.8	9.4		5
10138	Benzo(a)pyrene	50-32-8	29		3.8	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	42		3.8	9.4		5
10138	Benzo(g,h,i)perylene	191-24-2	19		3.8	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	20		3.8	9.4		5
10138	Chrysene	218-01-9	38		1.9	9.4		5
10138	Dibenz(a,h)anthracene	53-70-3	6.0	J	3.8	9.4		5
10138	Fluoranthene	206-44-0	32		3.8	9.4		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	15		3.8	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.4		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.4		5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.4		5
10138	Pyrene	129-00-0	23		3.8	9.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	1.5	U	1.5	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.13	J	0.085	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent							

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Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291990
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE154-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the lowest reporting limits attainable.							
	Despite florisil cleanup, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.9	J	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.19	U	0.19	0.39		1
01363	p,p-DDT	50-29-3	1.1		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.083	U	0.083	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.10	U	0.10	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.073	U	0.073	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable.							
	Despite numerous cleanup methods, our usual reporting limits were not attained.							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	43		5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.7		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.7		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.7		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.7		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.7		5
10225	PCB-1254	11097-69-1	55		1.9	9.7		5
10225	PCB-1260	11096-82-5	16		2.2	9.7		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.7		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.7		5

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Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291990
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE154-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.62	22.3		1
07914	Boron	7440-42-8	20.0		0.994	5.58		1
01650	Calcium	7440-70-2	8,300		6.84	22.3		1
01654	Iron	7439-89-6	26,200		5.26	22.3		1
01656	Lithium	7439-93-2	18.8		0.25	2.2		1
01657	Magnesium	7439-95-4	6,010		2.84	11.2		1
06958	Manganese	7439-96-5	364		0.0871	0.558		1
10145	Phosphorus	7723-14-0	521		0.625	11.2		1
01662	Potassium	7440-09-7	3,870		20.1	55.8		1
01667	Sodium	7440-23-5	127		41.6	112		1
07968	Strontium	7440-24-6	35.1		0.0692	0.558		1
06969	Tin	7440-31-5	2.50	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,190		0.424	1.12		1
10146	Zirconium	7440-67-7	1.91	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.45		0.0893	0.447		2
06126	Barium	7440-39-3	126		0.121	0.447		2
06127	Beryllium	7440-41-7	0.590		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.352		0.0447	0.112		2
06131	Chromium	7440-47-3	24.3		0.134	0.447		2
06132	Cobalt	7440-48-4	8.52		0.0223	0.112		2
06133	Copper	7440-50-8	16.0		0.0737	0.447		2
06135	Lead	7439-92-1	15.5		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.463		0.0558	0.112		2
06139	Nickel	7440-02-0	15.9		0.112	0.447		2
06141	Selenium	7782-49-2	0.102	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.303		0.0134	0.112		2
06145	Thallium	7440-28-0	0.354		0.0332	0.111		2
06148	Vanadium	7440-62-2	53.7		0.0246	0.112		2
06149	Zinc	7440-66-6	78.8		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0462	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291990
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE154-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 03:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 11:47	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 20:18	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 20:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 06:49	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1

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Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291990
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL055 SDG#: DE154-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 20:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11144621201A	06/01/2011 21:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 02:44	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291991
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE154-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	740		19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291991
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE154-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.4		5
10138	Benzo(a)pyrene	50-32-8	4.6	J	3.7	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	7.0	J	3.7	9.4		5
10138	Benzo(g,h,i)perylene	191-24-2	5.4	J	3.7	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.4		5
10138	Chrysene	218-01-9	5.9	J	1.9	9.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.4		5
10138	Fluoranthene	206-44-0	5.2	J	3.7	9.4		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.4		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.4		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.4		5
10138	Pyrene	129-00-0	4.4	J	3.7	9.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291991
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE154-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	2.3	U	2.3	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38		1
01363	p,p-DDT	50-29-3	0.35	J	0.074	0.38		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.57	22.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291991
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE154-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	24.7		0.986	5.54		1
01650	Calcium	7440-70-2	6,840		6.79	22.2		1
01654	Iron	7439-89-6	32,300		26.1	111		5
01656	Lithium	7439-93-2	23.1		0.24	2.2		1
01657	Magnesium	7439-95-4	7,130		2.81	11.1		1
06958	Manganese	7439-96-5	377		0.0864	0.554		1
10145	Phosphorus	7723-14-0	443		0.620	11.1		1
01662	Potassium	7440-09-7	3,700		19.9	55.4		1
01667	Sodium	7440-23-5	101	J	41.3	111		1
07968	Strontium	7440-24-6	37.1		0.0687	0.554		1
06969	Tin	7440-31-5	2.63	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,070		0.421	1.11		1
10146	Zirconium	7440-67-7	3.43	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.343		0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.06		0.0886	0.443		2
06126	Barium	7440-39-3	191		0.120	0.443		2
06127	Beryllium	7440-41-7	1.08		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.457		0.0443	0.111		2
06131	Chromium	7440-47-3	43.0		0.133	0.443		2
06132	Cobalt	7440-48-4	13.7		0.0222	0.111		2
06133	Copper	7440-50-8	25.9		0.0731	0.443		2
06135	Lead	7439-92-1	18.5		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.634		0.0554	0.111		2
06139	Nickel	7440-02-0	29.0		0.111	0.443		2
06141	Selenium	7782-49-2	0.0924	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0599	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.395		0.0339	0.113		2
06148	Vanadium	7440-62-2	83.1		0.0244	0.111		2
06149	Zinc	7440-66-6	102		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0365	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.5		0.23	1.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291991
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE154-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 03:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 12:19	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 20:45	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 15:37	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 20:19	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 07:07	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/27/2011 18:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1

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Analysis Report

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291991
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL056 SDG#: DE154-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 21:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11144621201A	06/02/2011 23:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11143243201A	05/25/2011 03:03	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291992
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE154-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	22	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291992
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE154-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.98	J	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	2.0		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	10		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	11		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	16		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	7.0		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	9.0		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	16	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	8.8	J	6.9	21		1
10138	Dibenz(a,h)anthracene	53-70-3	1.9	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	95		6.9	21		1
10138	Fluoranthene	206-44-0	30		0.77	1.9		1
10138	Fluorene	86-73-7	1.0	J	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.4		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.87	J	0.77	1.9		1
10138	Naphthalene	91-20-3	1.3	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	14		0.77	1.9		1
10138	Pyrene	129-00-0	21		0.77	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	3.4	U	3.4	3.4		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291992
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE154-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Despite florisil cleanup, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	4.6		0.93	3.9		1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.39		1
01363	p,p-DDE	72-55-9	4.4		0.38	2.0		5
01363	p,p-DDT	50-29-3	4.7		0.38	2.0		5
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.28	U	0.28	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.39		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.090	J	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.26	U	0.26	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	8.4		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	3.9		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,900		5.67	22.6		1
07914	Boron	7440-42-8	23.0		1.00	5.64		1
01650	Calcium	7440-70-2	6,610		6.91	22.6		1
01654	Iron	7439-89-6	29,000		5.31	22.6		1
01656	Lithium	7439-93-2	21.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,640		2.86	11.3		1
06958	Manganese	7439-96-5	498		0.0880	0.564		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291992
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE154-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	513		0.631	11.3		1
01662	Potassium	7440-09-7	6,660		20.3	56.4		1
01667	Sodium	7440-23-5	82.8	J	42.1	113		1
07968	Strontium	7440-24-6	28.8		0.0699	0.564		1
06969	Tin	7440-31-5	2.60	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,220		0.428	1.13		1
10146	Zirconium	7440-67-7	3.52	J	0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.397		0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.55		0.0920	0.460		2
06126	Barium	7440-39-3	136		0.310	1.15		5
06127	Beryllium	7440-41-7	1.18		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.738		0.0460	0.115		2
06131	Chromium	7440-47-3	45.7		0.138	0.460		2
06132	Cobalt	7440-48-4	16.4		0.0230	0.115		2
06133	Copper	7440-50-8	28.8		0.0759	0.460		2
06135	Lead	7439-92-1	26.1		0.0120	0.230		2
06138	Molybdenum	7439-98-7	1.01		0.0575	0.115		2
06139	Nickel	7440-02-0	32.1		0.115	0.460		2
06141	Selenium	7782-49-2	0.181	J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0739	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.475		0.0348	0.116		2
06148	Vanadium	7440-62-2	85.9		0.0253	0.115		2
06149	Zinc	7440-66-6	125		0.644	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0289	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.9		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291992
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE154-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 03:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 12:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 21:13	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 20:46	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	06/02/2011 17:27	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 07:26	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:13	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:58	Choon Y Tian	5

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Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291992
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL058 SDG#: DE154-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 21:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201A	06/01/2011 22:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11143243201A	05/25/2011 03:15	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291993
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE154-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291993
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE154-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.48	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.9	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	3.4		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	2.6		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.0	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.8	J	0.75	1.9		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291993
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE154-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.8		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.38		1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.38		1
01363	p,p-DDT	50-29-3	0.26	J	0.075	0.38		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38		1
01363	Endrin	72-20-8	0.075	U	0.075	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.17	J	0.075	0.38		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.23	J	0.075	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		5.54	22.0		1
07914	Boron	7440-42-8	21.2		0.980	5.50		1
01650	Calcium	7440-70-2	15,000		6.75	22.0		1
01654	Iron	7439-89-6	27,600		5.18	22.0		1
01656	Lithium	7439-93-2	22.0		0.24	2.2		1
01657	Magnesium	7439-95-4	6,330		2.80	11.0		1
06958	Manganese	7439-96-5	457		0.0859	0.550		1
10145	Phosphorus	7723-14-0	404		0.616	11.0		1
01662	Potassium	7440-09-7	4,190		19.8	55.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291993
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE154-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	98.7	J	41.1	110		1
07968	Strontium	7440-24-6	39.6		0.0682	0.550		1
06969	Tin	7440-31-5	2.40	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,150		0.418	1.10		1
10146	Zirconium	7440-67-7	2.96	J	0.925	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.332		0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.40		0.0907	0.454		2
06126	Barium	7440-39-3	136		0.306	1.13		5
06127	Beryllium	7440-41-7	1.05		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.663		0.0454	0.113		2
06131	Chromium	7440-47-3	42.3		0.136	0.454		2
06132	Cobalt	7440-48-4	15.1		0.0227	0.113		2
06133	Copper	7440-50-8	25.6		0.0748	0.454		2
06135	Lead	7439-92-1	15.2		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.761		0.0567	0.113		2
06139	Nickel	7440-02-0	28.0		0.113	0.454		2
06141	Selenium	7782-49-2	0.119	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0550	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.453		0.0330	0.110		2
06148	Vanadium	7440-62-2	85.1		0.0249	0.113		2
06149	Zinc	7440-66-6	101		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0367	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.22		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1

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Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291993
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE154-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011	04:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011	13:22	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011	04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011	04:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011	21:40	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011	21:00	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011	07:45	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011	14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011	16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011	01:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011	12:17	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011	11:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011	11:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011	12:01	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011	11:23	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291993
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL059 SDG#: DE154-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 21:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201A	06/01/2011 23:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 03:21	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403A	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	119		19.1	38.1		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	37	J	19	190		1
04688	Benzo(a)pyrene	50-32-8	34	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	44	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	37	J	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	25	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	J	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	43	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	53	J	19	380		1
04688	Fluoranthene	206-44-0	79	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	22	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1

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Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenanthrene	85-01-8	47	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	79	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5		5
10138	Anthracene	120-12-7	3.8	J	1.9	9.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	J	3.8	9.5		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1

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Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	4.4	U	4.4	4.4		1
10401	Dicamba	1918-00-9	0.54	J	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	990		88	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.44		0.086	0.20		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,400	U	1,400	3,500		1

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Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL064 SDG#: DE154-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	13		0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.84		0.076	0.39		1
01363	p,p-DDT	50-29-3	4.5		0.38	2.0		5
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.16	U	0.16	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.069	U	0.069	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.27	U	0.27	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.8	U	5.8	19		5
10225	Aroclor 5442	12642-23-8	5.8	U	5.8	19		5
10225	Aroclor 5460	11126-42-4	22		5.8	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.8		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.8		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.8		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.8		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.8		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.8		5
10225	PCB-1260	11096-82-5	6.1	J	2.3	9.8		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.8		5

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Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.8		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	4.1	J	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	48		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	240		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.5	U	3.5	8.1		2
10318	o-Terphenyl	84-15-1	3.5	U	3.5	8.1		2
10318	p-Terphenyl	92-94-4	3.5	U	3.5	8.1		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,500		28.5	113		5
07914	Boron	7440-42-8	13.3	J	5.04	28.3		5
	Reporting limits were raised due to interference from the sample matrix.							
01650	Calcium	7440-70-2	4,800		6.94	22.6		1
01654	Iron	7439-89-6	99,800		26.7	113		5
01656	Lithium	7439-93-2	19.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,320		2.88	11.3		1
06958	Manganese	7439-96-5	700		0.0883	0.566		1
10145	Phosphorus	7723-14-0	402		3.17	56.6		5
01662	Potassium	7440-09-7	4,880		102	283		5
01667	Sodium	7440-23-5	80.6	J	42.2	113		1
07968	Strontium	7440-24-6	29.0		0.0702	0.566		1
06969	Tin	7440-31-5	6.34	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,130		2.15	5.66		5
10146	Zirconium	7440-67-7	0.951	U	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.854		0.0666	0.222		2

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Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.7		0.0888	0.444		2
06126	Barium	7440-39-3	191		0.120	0.444		2
06127	Beryllium	7440-41-7	1.02		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.870		0.0444	0.111		2
06131	Chromium	7440-47-3	40.7		0.133	0.444		2
06132	Cobalt	7440-48-4	13.7		0.0222	0.111		2
06133	Copper	7440-50-8	42.5		0.0733	0.444		2
06135	Lead	7439-92-1	26.6		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.748		0.0555	0.111		2
06139	Nickel	7440-02-0	26.6		0.111	0.444		2
06141	Selenium	7782-49-2	0.119	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.104	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.356		0.0346	0.115		2
06148	Vanadium	7440-62-2	75.8		0.0244	0.111		2
06149	Zinc	7440-66-6	162		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.61		0.0163	0.570		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 19:26	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 04:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 13:55	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 00:17	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:22	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 23:03	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 21:13	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	06/02/2011 17:40	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 08:03	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 21:04	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 01:32	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 09:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/26/2011 23:34	Melissa McDermott	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/27/2011 18:11	John P Hook	5
07914	Boron	SW-846 6010B	1	111435708002	05/27/2011 18:11	John P Hook	5
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/27/2011 18:11	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1

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Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/27/2011 18:11	John P Hook	5
01662	Potassium	SW-846 6010B	1	111435708002	05/27/2011 18:11	John P Hook	5
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/27/2011 18:11	John P Hook	5
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:22	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/31/2011 15:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:48	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 22:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202A	05/25/2011 22:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201A	06/01/2011 23:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 03:37	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:11	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291994
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL064 SDG#: DE154-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	102		18.8	37.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	21	J	19	190		1
04688	Aniline	62-53-3	190	U	190	560		1
04688	Anthracene	120-12-7	36	J	19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	130	J	19	190		1
04688	Benzo(a)pyrene	50-32-8	120	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	140	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	92	J	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	67	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	29	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Chrysene	218-01-9	160	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	45	J	19	370		1
04688	Fluoranthene	206-44-0	300		19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	71	J	19	190		1

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Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenanthrene	85-01-8	180	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	280		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	12		3.7	9.3		5
10138	Fluorene	86-73-7	5.6	J	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1

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Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	3.1	U	3.1	3.1		1
10401	Dicamba	1918-00-9	0.72	J	0.45	1.4		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.2	J	0.90	1.9		1
10401	MCPA	94-74-6	870		86	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.17	U	0.17	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1

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Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.82		0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.10	J	0.038	0.19		1
01363	Chlordane	57-74-9	5.2		0.90	3.8		1
01363	p,p-DDD	72-54-8	0.87	U	0.87	0.87		1
01363	p,p-DDE	72-55-9	1.5		0.075	0.38		1
01363	p,p-DDT	50-29-3	4.3		0.37	1.9		5
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38		1
01363	Endrin	72-20-8	0.075	U	0.075	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.38		1
01363	Endrin Ketone	53494-70-5	0.20	U	0.20	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.15	J	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.45	U	0.45	0.45		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19		5
10225	Aroclor 5460	11126-42-4	18	J	5.6	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.6		5
10225	PCB-1260	11096-82-5	4.4	J	2.2	9.6		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6		5

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	14		10
10199	EFH (C15-C20)	n.a.	6.2	J	4.5	14		10
10199	EFH (C21-C30)	n.a.	150		4.5	14		10

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Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	490		4.5	14		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.4	U	3.4	7.9		2
10318	o-Terphenyl	84-15-1	3.4	U	3.4	7.9		2
10318	p-Terphenyl	92-94-4	3.4	U	3.4	7.9		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		5.57	22.2		1
07914	Boron	7440-42-8	23.2		0.986	5.54		1
01650	Calcium	7440-70-2	5,130		6.79	22.2		1
01654	Iron	7439-89-6	32,300		26.1	111		5
01656	Lithium	7439-93-2	19.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,640		2.81	11.1		1
06958	Manganese	7439-96-5	565		0.0864	0.554		1
10145	Phosphorus	7723-14-0	367		0.620	11.1		1
01662	Potassium	7440-09-7	5,360		19.9	55.4		1
01667	Sodium	7440-23-5	90.7	J	41.3	111		1
07968	Strontium	7440-24-6	32.5		0.0687	0.554		1
06969	Tin	7440-31-5	3.02	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,150		0.421	1.11		1
10146	Zirconium	7440-67-7	2.60	J	0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.445		0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.7		0.0895	0.448		2
06126	Barium	7440-39-3	175		0.121	0.448		2
06127	Beryllium	7440-41-7	0.959		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.735		0.0448	0.112		2
06131	Chromium	7440-47-3	36.3		0.134	0.448		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	11.8		0.0224	0.112		2
06133	Copper	7440-50-8	23.6		0.0738	0.448		2
06135	Lead	7439-92-1	17.7		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.715		0.0559	0.112		2
06139	Nickel	7440-02-0	24.3		0.112	0.448		2
06141	Selenium	7782-49-2	0.163	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0590	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.463		0.0339	0.113		2
06148	Vanadium	7440-62-2	67.9		0.0246	0.112		2
06149	Zinc	7440-66-6	181		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.254		0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.7		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 19:42	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 05:12	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 14:27	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 00:59	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:32	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 23:31	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 21:26	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 21:40	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 08:22	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 21:29	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 01:47	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 09:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/27/2011 01:48	Melissa McDermott	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/27/2011 18:26	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1

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Analysis Report

Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291995
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL065 SDG#: DE154-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:26	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/31/2011 15:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 22:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202A	05/25/2011 22:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201A	06/01/2011 23:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 03:50	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:12	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291996
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE154-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	193	U	193	386		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291996
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE154-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.59	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.93	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.8	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.4		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	5.0		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	2.5		0.77	1.9		1
10138	Pyrene	129-00-0	2.5		0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1

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Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291996
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE154-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	120	J	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	6.4		0.72	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1

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Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291996
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE154-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Chlordane	57-74-9	1.3	J	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.10	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.18	U	0.18	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.4	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	3.4		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	8.1		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	20		0.47	1.4		1

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14420 Albemarle Point Place
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SL086 SDG#: DE154-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.5	U	3.5	8.2		2
10318	o-Terphenyl	84-15-1	3.5	U	3.5	8.2		2
10318	p-Terphenyl	92-94-4	3.5	U	3.5	8.2		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		5.69	22.6		1
07914	Boron	7440-42-8	21.1		1.01	5.66		1
01650	Calcium	7440-70-2	4,830		6.94	22.6		1
01654	Iron	7439-89-6	28,000		5.33	22.6		1
01656	Lithium	7439-93-2	20.1		0.25	2.3		1
01657	Magnesium	7439-95-4	5,870		2.87	11.3		1
06958	Manganese	7439-96-5	491		0.0883	0.566		1
10145	Phosphorus	7723-14-0	283		0.634	11.3		1
01662	Potassium	7440-09-7	4,560		20.4	56.6		1
01667	Sodium	7440-23-5	108	J	42.2	113		1
07968	Strontium	7440-24-6	32.4		0.0702	0.566		1
06969	Tin	7440-31-5	2.66	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,140		0.430	1.13		1
10146	Zirconium	7440-67-7	3.01	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.349		0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.96		0.0897	0.448		2
06126	Barium	7440-39-3	194		0.121	0.448		2
06127	Beryllium	7440-41-7	1.09		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.503		0.0448	0.112		2
06131	Chromium	7440-47-3	40.1		0.134	0.448		2
06132	Cobalt	7440-48-4	14.9		0.0224	0.112		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291996
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE154-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	22.3		0.0740	0.448		2
06135	Lead	7439-92-1	13.4		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.693		0.0560	0.112		2
06139	Nickel	7440-02-0	25.6		0.112	0.448		2
06141	Selenium	7782-49-2	0.220	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0490	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.440		0.0343	0.114		2
06148	Vanadium	7440-62-2	75.8		0.0247	0.112		2
06149	Zinc	7440-66-6	94.9		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.123		0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.71		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291996
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

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Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE154-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	06/03/2011 11:18	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 05:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 14:58	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 01:41	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:42	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 23:58	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 21:54	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 08:40	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 19:00	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 02:16	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 10:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/27/2011 01:04	Melissa McDermott	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291996
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL086 SDG#: DE154-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:30	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 22:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202A	05/25/2011 22:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201A	06/02/2011 00:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11143243201A	05/25/2011 04:08	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:13	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE154-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	57.1		18.6	37.1		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(g,h,i)perylene	191-24-2	22	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE154-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	2.2	J	1.9	9.3		5
10138	Anthracene	120-12-7	14		1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	67		3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	53		3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	92		3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	28		3.7	9.3		5
10138	Chrysene	218-01-9	68		1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	5.8	J	3.7	9.3		5
10138	Fluoranthene	206-44-0	210		3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	17		3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	49		3.7	9.3		5
10138	Pyrene	129-00-0	120		3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE154-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.85	U	0.85	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.29		0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1

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Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
LLI Group # 1247619
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Collected: 05/18/2011 09:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL087 SDG#: DE154-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	1.6	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.096	J	0.074	0.38		1
01363	p,p-DDT	50-29-3	0.86		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.18	U	0.18	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	3.8		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.9	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL087 SDG#: DE154-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	13		10
10199	EFH (C15-C20)	n.a.	10	J	4.5	13		10
10199	EFH (C21-C30)	n.a.	150		4.5	13		10
10199	EFH (C30 - C40)	n.a.	480		4.5	13		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.4	U	3.4	7.9		2
10318	o-Terphenyl	84-15-1	3.4	U	3.4	7.9		2
10318	p-Terphenyl	92-94-4	3.4	U	3.4	7.9		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,800		5.44	21.6		1
07914	Boron	7440-42-8	19.3		0.963	5.41		1
01650	Calcium	7440-70-2	4,640		6.63	21.6		1
01654	Iron	7439-89-6	26,400		5.09	21.6		1
01656	Lithium	7439-93-2	19.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,830		2.75	10.8		1
06958	Manganese	7439-96-5	456		0.0844	0.541		1
10145	Phosphorus	7723-14-0	329		0.606	10.8		1
01662	Potassium	7440-09-7	3,910		19.5	54.1		1
01667	Sodium	7440-23-5	107	J	40.3	108		1
07968	Strontium	7440-24-6	29.5		0.0671	0.541		1
06969	Tin	7440-31-5	2.62	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,110		0.411	1.08		1
10146	Zirconium	7440-67-7	2.42	J	0.909	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.534		0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.12		0.0874	0.437		2
06126	Barium	7440-39-3	183		0.118	0.437		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL087 SDG#: DE154-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.909		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.759		0.0437	0.109		2
06131	Chromium	7440-47-3	34.1		0.131	0.437		2
06132	Cobalt	7440-48-4	12.5		0.0218	0.109		2
06133	Copper	7440-50-8	21.6		0.0721	0.437		2
06135	Lead	7439-92-1	19.1		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.678		0.0546	0.109		2
06139	Nickel	7440-02-0	22.2		0.109	0.437		2
06141	Selenium	7782-49-2	0.141	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0786	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.353		0.0334	0.111		2
06148	Vanadium	7440-62-2	68.7		0.0240	0.109		2
06149	Zinc	7440-66-6	190		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	2.18		0.0154	0.537		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
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SL087 SDG#: DE154-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 20:16	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 06:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 15:30	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 02:24	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 20:51	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/25/2011 00:26	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 22:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 08:59	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 21:54	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 02:31	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 10:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/27/2011 03:17	Melissa McDermott	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1

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Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291997
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

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Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL087 SDG#: DE154-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:34	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:50	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 22:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202A	05/25/2011 22:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	3	11144621201A	06/02/2011 23:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 04:15	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291998
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE154-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291998
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE154-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.5	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	2.0		0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.1	J	0.74	1.8		1
10138	Pyrene	129-00-0	1.3	J	0.74	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1

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Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291998
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE154-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	7.2	U	7.2	7.2		1
10401	Dicamba	1918-00-9	0.56	U	0.56	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.23	J	0.074	0.38		1
01363	p,p-DDT	50-29-3	0.31	J	0.074	0.38		1

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Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291998
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE154-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.12	J	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The DCB surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,500		5.50	21.9		1
07914	Boron	7440-42-8	19.1		0.973	5.47		1
01650	Calcium	7440-70-2	3,650		6.70	21.9		1
01654	Iron	7439-89-6	25,300		5.15	21.9		1
01656	Lithium	7439-93-2	16.0		0.24	2.2		1
01657	Magnesium	7439-95-4	4,920		2.78	10.9		1
06958	Manganese	7439-96-5	452		0.0853	0.547		1
10145	Phosphorus	7723-14-0	292		0.612	10.9		1
01662	Potassium	7440-09-7	4,530		19.7	54.7		1
01667	Sodium	7440-23-5	87.3	J	40.8	109		1
07968	Strontium	7440-24-6	26.5		0.0678	0.547		1
06969	Tin	7440-31-5	2.44	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,090		0.415	1.09		1
10146	Zirconium	7440-67-7	1.85	J	0.918	5.47		1

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SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291998
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL088 SDG#: DE154-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.451		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.33		0.0875	0.437		2
06126	Barium	7440-39-3	121		0.295	1.09		5
06127	Beryllium	7440-41-7	1.23		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.264		0.0437	0.109		2
06131	Chromium	7440-47-3	42.1		0.131	0.437		2
06132	Cobalt	7440-48-4	8.27		0.0219	0.109		2
06133	Copper	7440-50-8	14.2		0.0722	0.437		2
06135	Lead	7439-92-1	7.87		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.558		0.0547	0.109		2
06139	Nickel	7440-02-0	16.7		0.109	0.437		2
06141	Selenium	7782-49-2	0.147	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0394	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.485		0.0322	0.107		2
06148	Vanadium	7440-62-2	79.0		0.0241	0.109		2
06149	Zinc	7440-66-6	55.9		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0265	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291998
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE154-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 06:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 19:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 03:06	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/25/2011 00:53	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 22:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 09:17	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:38	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/31/2011 15:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 12:04	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/31/2011 15:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/31/2011 15:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/31/2011 15:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/31/2011 15:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/31/2011 15:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291998
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL088 SDG#: DE154-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	111431026001A	05/31/2011 15:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026002A	06/03/2011 12:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/31/2011 15:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202A	05/25/2011 23:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201A	06/02/2011 00:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11143243201A	05/25/2011 04:33	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202A	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201A	05/24/2011 11:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	49.9		19.1	38.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Fluoranthene	206-44-0	25	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.7	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.8		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.8		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	10		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	13		0.77	1.9		1
10138	Pyrene	129-00-0	13		0.77	1.9		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	2.1		0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.26	J	0.077	0.39		1
01363	p,p-DDE	72-55-9	0.39	J	0.077	0.39		1
01363	p,p-DDT	50-29-3	1.2		0.077	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.32	J	0.077	0.39		1
01363	Heptachlor	76-44-8	0.10	J	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.4	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	3.6		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	10		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	28		0.46	1.4		1

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Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.78	23.0		1
07914	Boron	7440-42-8	23.0		1.02	5.74		1
01650	Calcium	7440-70-2	4,690		7.04	23.0		1
01654	Iron	7439-89-6	29,700		5.41	23.0		1
01656	Lithium	7439-93-2	21.9		0.25	2.3		1
01657	Magnesium	7439-95-4	5,860		2.92	11.5		1
06958	Manganese	7439-96-5	398		0.0896	0.574		1
10145	Phosphorus	7723-14-0	254		0.643	11.5		1
01662	Potassium	7440-09-7	4,190		20.7	57.4		1
01667	Sodium	7440-23-5	106	J	42.8	115		1
07968	Strontium	7440-24-6	31.3		0.0712	0.574		1
06969	Tin	7440-31-5	2.83	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,170		0.436	1.15		1
10146	Zirconium	7440-67-7	3.06	J	0.965	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.274		0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.06		0.0901	0.451		2
06126	Barium	7440-39-3	141		0.122	0.451		2
06127	Beryllium	7440-41-7	0.881		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.348		0.0451	0.113		2
06131	Chromium	7440-47-3	31.1		0.135	0.451		2
06132	Cobalt	7440-48-4	10.1		0.0225	0.113		2
06133	Copper	7440-50-8	17.1		0.0743	0.451		2

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Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11BKG

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	10.4		0.0117	0.225		2
06138	Molybdenum		7439-98-7	0.584		0.0563	0.113		2
06139	Nickel		7440-02-0	20.4		0.113	0.451		2
06141	Selenium		7782-49-2	0.177	J	0.0451	0.451		2
06142	Silver		7440-22-4	0.0556	J	0.0135	0.113		2
06145	Thallium		7440-28-0	0.459		0.0341	0.114		2
06148	Vanadium		7440-62-2	58.6		0.0248	0.113		2
06149	Zinc		7440-66-6	77.8		0.631	3.38		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0344	J	0.0032	0.112		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.3		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate		14797-55-8	2.2		0.93	1.7		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4	U	10.4	34.8		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23	U	0.23	1.2		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.55		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.56		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
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14420 Albemarle Point Place
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SL089 SDG#: DE154-11BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 20:32	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 01:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 01:58	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 05:14	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 21:01	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 18:27	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 17:55	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 22:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 10:49	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 19:25	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 02:46	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 10:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 08:45	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1

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Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6291999
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 11:29	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 10:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 10:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 14:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 10:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202B	05/25/2011 23:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202B	05/25/2011 23:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201B	06/02/2011 01:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 04:40	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201B	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	837		19.1	38.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,300		190	570		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	1,600	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190		1
04688	Benzoic acid	65-85-0	1,700		190	570		1
04688	Benzyl alcohol	100-51-6	1,800		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		38	190		1
04688	4-Chloroaniline	106-47-8	1,000		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1
04688	Chrysene	218-01-9	1,900		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,500		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		19	380		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	1,800		19	190		1
04688	Hexachlorobenzene	118-74-1	1,900		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700		76	190		1

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Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,100	190	570		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,800	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	76	190		1
04688	Nitrobenzene	98-95-3	1,900	19	190		1
04688	2-Nitrophenol	88-75-5	1,800	19	190		1
04688	4-Nitrophenol	100-02-7	1,700	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	19	190		1
04688	Pentachlorophenol	87-86-5	990	190	570		1
04688	Phenanthrene	85-01-8	1,900	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol N-Nitrosodimethylamine						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	40	0.77	1.9		1
10138	Acenaphthylene	208-96-8	41	0.38	1.9		1
10138	Anthracene	120-12-7	39	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	39	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	43	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	46	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	21	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	51	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	45	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	41	6.9	21		1

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SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL089 SDG#: DE154-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	40		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	30		0.77	1.9		1
10138	Diethylphthalate	84-66-2	41		6.9	21		1
10138	Dimethylphthalate	131-11-3	41		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47		6.9	21		1
10138	Fluoranthene	206-44-0	53		0.77	1.9		1
10138	Fluorene	86-73-7	43		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	38		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	35		0.77	1.9		1
10138	Naphthalene	91-20-3	36		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	26		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	61		6.9	21		1
10138	Phenanthrene	85-01-8	42		0.77	1.9		1
10138	Pyrene	129-00-0	44		0.77	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		68	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		45	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,400		45	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		45	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,100		45	140		1
10132	HMX	2691-41-0	1,900		110	340		1
10132	Nitrobenzene	98-95-3	2,600		45	140		1
10132	Nitroglycerin	55-63-0	50,000		910	2,700		1
10132	2-Nitrotoluene	88-72-2	2,100		91	140		1
10132	3-Nitrotoluene	99-08-1	2,200		110	140		1
10132	4-Nitrotoluene	99-99-0	2,100		91	140		1
10132	PETN	78-11-5	59,000		910	2,700		1
10132	RDX	121-82-4	1,800		57	140		1
10132	Tetryl	479-45-8	1,400		70	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		45	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,100		45	140		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	11		1.4	4.2		1
10401	Dalapon	75-99-0	6.1	J	5.1	10		1
10401	2,4-DB	94-82-6	3.0		0.72	2.0		1
10401	Dicamba	1918-00-9	1.1	J	0.46	1.4		1
10401	Dinoseb	88-85-7	2.9		0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.93	2.0		1
10401	MCPA	94-74-6	1,000		88	290		1
10401	MCPP (Mecoprop)	93-65-2	740		87	290		1
10401	2,4,5-T	93-76-5	0.57		0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.44		0.087	0.20		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	

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SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

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SL089 SDG#: DE154-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,200		700	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	130		2.4	5.8		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.14	J	0.077	0.20		1
01363	Alpha BHC	319-84-6	0.26		0.039	0.20		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.039	0.20		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.52		0.077	0.39		1
01363	p,p-DDE	72-55-9	0.49		0.077	0.39		1
01363	p,p-DDT	50-29-3	0.89		0.077	0.39		1
01363	Delta BHC	319-86-8	0.17	J	0.042	0.20		1
01363	Dieldrin	60-57-1	0.32	J	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.16	J	0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.36	J	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.53		0.077	0.39		1
01363	Endrin	72-20-8	0.49		0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.31	J	0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.45		0.077	0.39		1
01363	Heptachlor	76-44-8	0.32		0.070	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.15	J	0.039	0.20		1
01363	Methoxychlor	72-43-5	2.2		0.39	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The TCX surrogate data is outside the QC limits. Since the recovery is similar to the background sample and the MSD, the affect is attributed to the matrix and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	19		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	16		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the

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SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

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SL089 SDG#: DE154-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.97	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	4.4		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	13		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	35		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.87	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,200		120	580		1
10501	Isopropanol	67-63-0	1,900		120	580		1
10501	Methanol	67-56-1	1,600		120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	86		5.8	12		1
08283	Ethylene glycol	107-21-1	120		5.8	12		1
08283	Propylene glycol	57-55-6	110		5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.2	J	1.2	4.1		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,600		5.84	23.2		1
07914	Boron	7440-42-8	248		1.03	5.80		1
01650	Calcium	7440-70-2	4,790		7.11	23.2		1
01654	Iron	7439-89-6	28,500		5.46	23.2		1
01656	Lithium	7439-93-2	141		0.26	2.3		1
01657	Magnesium	7439-95-4	5,970		2.95	11.6		1
06958	Manganese	7439-96-5	483		0.0905	0.580		1
10145	Phosphorus	7723-14-0	363		0.650	11.6		1
01662	Potassium	7440-09-7	5,440		20.9	58.0		1
01667	Sodium	7440-23-5	1,230		43.3	116		1
07968	Strontium	7440-24-6	143		0.0719	0.580		1
06969	Tin	7440-31-5	426		1.16	11.6		1
06970	Titanium	7440-32-6	1,430		0.441	1.16		1
10146	Zirconium	7440-67-7	113		0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.70		0.0689	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.4		0.0919	0.459		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	141	0.124	0.459		2
06127	Beryllium	7440-41-7	2.46	0.0184	0.115		2
06128	Cadmium	7440-43-9	2.43	0.0459	0.115		2
06131	Chromium	7440-47-3	65.3	0.138	0.459		2
06132	Cobalt	7440-48-4	107	0.0230	0.115		2
06133	Copper	7440-50-8	43.9	0.0758	0.459		2
06135	Lead	7439-92-1	22.0	0.0119	0.230		2
06138	Molybdenum	7439-98-7	19.4	0.0574	0.115		2
06139	Nickel	7440-02-0	49.9	0.115	0.459		2
06141	Selenium	7782-49-2	2.14	0.0459	0.459		2
06142	Silver	7440-22-4	17.0	0.0138	0.115		2
06145	Thallium	7440-28-0	1.19	0.0348	0.116		2
06148	Vanadium	7440-62-2	110	0.0253	0.115		2
06149	Zinc	7440-66-6	151	0.643	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.216	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	14.4	0.93	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	616	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	40.1	1.2	5.8		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	6.0	0.21	0.57		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 20:49	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 01:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 02:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 05:56	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 21:10	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011 18:55	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:01	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 22:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 11:08	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 19:50	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 03:01	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 10:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/26/2011 21:20	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292000
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 11:41	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/31/2011 14:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 10:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 14:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 10:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202B	05/26/2011 00:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202B	05/26/2011 00:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201B	06/02/2011 02:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11143243201A	05/25/2011 05:11	James S Mathiot	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:17	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201B	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292001
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	750		19.3	38.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,200		190	570		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	2,000	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,400		190	570		1
04688	Benzyl alcohol	100-51-6	1,700		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		38	190		1
04688	4-Chloroaniline	106-47-8	1,100		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,700		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,700		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700		77	190		1

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Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292001
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL089 SDG#: DE154-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,000	190	570		1
04688	Hexachloroethane	67-72-1	1,400	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,700	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	38	190		1
04688	4-Nitroaniline	100-01-6	1,300	77	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	19	190		1
04688	Pentachlorophenol	87-86-5	1,100	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	1,800	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol N-Nitrosodimethylamine						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	42	0.77	1.9		1
10138	Acenaphthylene	208-96-8	41	0.38	1.9		1
10138	Anthracene	120-12-7	35	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	44	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	46	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	61	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	21	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	50	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	40	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	42	6.9	21		1

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Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292001
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	46		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	27		0.77	1.9		1
10138	Diethylphthalate	84-66-2	41		6.9	21		1
10138	Dimethylphthalate	131-11-3	42		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	53		6.9	21		1
10138	Fluoranthene	206-44-0	61		0.77	1.9		1
10138	Fluorene	86-73-7	42		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	33		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	35		0.77	1.9		1
10138	Naphthalene	91-20-3	35		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	71		6.9	21		1
10138	Phenanthrene	85-01-8	42		0.77	1.9		1
10138	Pyrene	129-00-0	49		0.77	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		70	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,500		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,600		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,400		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,300		46	140		1
10132	HMX	2691-41-0	2,100		120	350		1
10132	Nitrobenzene	98-95-3	2,900		46	140		1
10132	Nitroglycerin	55-63-0	55,000		930	2,800		1
10132	2-Nitrotoluene	88-72-2	2,300		93	140		1
10132	3-Nitrotoluene	99-08-1	2,400		120	140		1
10132	4-Nitrotoluene	99-99-0	2,300		93	140		1
10132	PETN	78-11-5	66,000		930	2,800		1
10132	RDX	121-82-4	2,100		58	140		1
10132	Tetryl	479-45-8	1,600		71	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		46	140		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	9.9		1.4	4.2		1
10401	Dalapon	75-99-0	8.0	J	5.1	10		1
10401	2,4-DB	94-82-6	3.0		0.72	2.0		1
10401	Dicamba	1918-00-9	1.0	J	0.46	1.4		1
10401	Dinoseb	88-85-7	2.6	J	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.9		0.93	2.0		1
10401	MCPA	94-74-6	990		88	290		1
10401	MCPP (Mecoprop)	93-65-2	630		87	290		1
10401	2,4,5-T	93-76-5	0.51		0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.44		0.087	0.20		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292001
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

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14420 Albemarle Point Place
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SL089 SDG#: DE154-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,200		700	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	130		2.4	5.8		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.15	J	0.077	0.20		1
01363	Alpha BHC	319-84-6	0.27		0.039	0.20		1
01363	Beta BHC	319-85-7	0.14	J	0.070	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.22		0.039	0.20		1
01363	Chlordane	57-74-9	0.93	U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.45		0.077	0.39		1
01363	p,p-DDE	72-55-9	0.52		0.077	0.39		1
01363	p,p-DDT	50-29-3	0.90		0.077	0.39		1
01363	Delta BHC	319-86-8	0.17	J	0.042	0.20		1
01363	Dieldrin	60-57-1	0.31	J	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.13	J	0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.29	J	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.30	J	0.077	0.39		1
01363	Endrin	72-20-8	0.42		0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.31	J	0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.31	J	0.077	0.39		1
01363	Heptachlor	76-44-8	0.24		0.070	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.21		0.039	0.20		1
01363	Methoxychlor	72-43-5	1.7	J	0.39	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The TCX surrogate data is outside the QC limits. Since the recovery is similar to the background sample and the MSD, the affect is attributed to the matrix and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	24		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	19		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the

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SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6292001
LLI Group # 1247619
Account # 13013

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SL089 SDG#: DE154-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.96	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	5.2		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	17		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	44		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.85	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	950		120	580		1
10501	Isopropanol	67-63-0	1,800		120	580		1
10501	Methanol	67-56-1	1,500		120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	140		5.8	12		1
08283	Ethylene glycol	107-21-1	190		5.8	12		1
08283	Propylene glycol	57-55-6	180		5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.2	J	1.2	4.1		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		5.61	22.3		1
07914	Boron	7440-42-8	237		0.993	5.58		1
01650	Calcium	7440-70-2	5,080		6.84	22.3		1
01654	Iron	7439-89-6	29,000		5.25	22.3		1
01656	Lithium	7439-93-2	137		0.25	2.2		1
01657	Magnesium	7439-95-4	6,290		2.83	11.2		1
06958	Manganese	7439-96-5	482		0.0870	0.558		1
10145	Phosphorus	7723-14-0	369		0.625	11.2		1
01662	Potassium	7440-09-7	5,950		20.1	55.8		1
01667	Sodium	7440-23-5	1,190		41.6	112		1
07968	Strontium	7440-24-6	139		0.0692	0.558		1
06969	Tin	7440-31-5	403		1.12	11.2		1
06970	Titanium	7440-32-6	1,550		0.424	1.12		1
10146	Zirconium	7440-67-7	109		0.937	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.50		0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.2		0.0901	0.451		2

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SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292001
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SL089 SDG#: DE154-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06126	Barium	7440-39-3	152	0.122	0.451		2
06127	Beryllium	7440-41-7	2.32	0.0180	0.113		2
06128	Cadmium	7440-43-9	2.15	0.0451	0.113		2
06131	Chromium	7440-47-3	61.9	0.135	0.451		2
06132	Cobalt	7440-48-4	96.2	0.0225	0.113		2
06133	Copper	7440-50-8	39.9	0.0743	0.451		2
06135	Lead	7439-92-1	20.2	0.0117	0.225		2
06138	Molybdenum	7439-98-7	17.2	0.0563	0.113		2
06139	Nickel	7440-02-0	46.9	0.113	0.451		2
06141	Selenium	7782-49-2	2.20	0.0451	0.451		2
06142	Silver	7440-22-4	16.0	0.0135	0.113		2
06145	Thallium	7440-28-0	1.05	0.0341	0.114		2
06148	Vanadium	7440-62-2	104	0.0248	0.113		2
06149	Zinc	7440-66-6	126	0.631	3.38		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.222	0.0033	0.115		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011	21:06	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011	02:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011	03:02	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011	10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011	04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011	04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011	06:38	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011	21:20	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/24/2011	19:22	Michele D Hamilton	1

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SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292001
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Account # 13013

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SL089 SDG#: DE154-11MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:07	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 23:02	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 11:26	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 20:14	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 03:15	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 11:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/26/2011 22:05	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 11:45	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/31/2011 14:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292001
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 10:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 14:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 10:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292002
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		5.67	22.5		1
07914	Boron	7440-42-8	21.3		1.00	5.63		1
01650	Calcium	7440-70-2	4,430		6.90	22.5		1
01654	Iron	7439-89-6	27,500		5.30	22.5		1
01656	Lithium	7439-93-2	20.7		0.25	2.3		1
01657	Magnesium	7439-95-4	5,580		2.86	11.3		1
06958	Manganese	7439-96-5	448		0.0879	0.563		1
10145	Phosphorus	7723-14-0	264		0.631	11.3		1
01662	Potassium	7440-09-7	4,240		20.3	56.3		1
01667	Sodium	7440-23-5	96.9	J	42.0	113		1
07968	Strontium	7440-24-6	30.2		0.0698	0.563		1
06969	Tin	7440-31-5	2.66	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,180		0.428	1.13		1
10146	Zirconium	7440-67-7	4.06	J	0.946	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.311		0.0676	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0901	0.451		2
06126	Barium	7440-39-3	145		0.122	0.451		2
06127	Beryllium	7440-41-7	0.888		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.311		0.0451	0.113		2
06131	Chromium	7440-47-3	32.1		0.135	0.451		2
06132	Cobalt	7440-48-4	10.5		0.0225	0.113		2
06133	Copper	7440-50-8	16.2		0.0743	0.451		2
06135	Lead	7439-92-1	10.6		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.551		0.0563	0.113		2
06139	Nickel	7440-02-0	20.5		0.113	0.451		2
06141	Selenium	7782-49-2	0.167	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0508	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.473		0.0335	0.112		2
06148	Vanadium	7440-62-2	61.6		0.0248	0.113		2
06149	Zinc	7440-66-6	78.1		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0195	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.2		1

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292002
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.59	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	15.1	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 11:37	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 10:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292002
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL089 SDG#: DE154-11DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 10:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 14:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 11:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 10:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202B	05/25/2011 23:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202B	05/25/2011 23:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201B	06/02/2011 01:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 05:42	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:18	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201B	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	33.9	J	20.6	41.1		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.1	U	4.1	10		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10		5
10138	Anthracene	120-12-7	2.0	U	2.0	10		5
10138	Benzo(a)anthracene	56-55-3	4.1	U	4.1	10		5
10138	Benzo(a)pyrene	50-32-8	4.5	J	4.1	10		5
10138	Benzo(b)fluoranthene	205-99-2	7.4	J	4.1	10		5
10138	Benzo(g,h,i)perylene	191-24-2	4.9	J	4.1	10		5
10138	Benzo(k)fluoranthene	207-08-9	4.1	U	4.1	10		5
10138	Chrysene	218-01-9	5.7	J	2.0	10		5
10138	Dibenz(a,h)anthracene	53-70-3	4.1	U	4.1	10		5
10138	Fluoranthene	206-44-0	7.5	J	4.1	10		5
10138	Fluorene	86-73-7	4.1	U	4.1	10		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1	U	4.1	10		5
10138	1-Methylnaphthalene	90-12-0	4.1	U	4.1	10		5
10138	2-Methylnaphthalene	91-57-6	4.1	U	4.1	10		5
10138	Naphthalene	91-20-3	4.1	U	4.1	10		5
10138	N-Nitrosodimethylamine	62-75-9	4.1	U	4.1	10		5
10138	Phenanthrene	85-01-8	4.1	U	4.1	10		5
10138	Pyrene	129-00-0	5.6	J	4.1	10		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	74	U	74	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	50	U	50	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	99	U	99	300	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	99	U	99	300	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	50	U	50	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	50	U	50	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	50	U	50	150	10000000	1
10132	HMX	2691-41-0	120	U	120	370	10000000	1
10132	Nitrobenzene	98-95-3	50	U	50	150	10000000	1
10132	Nitroglycerin	55-63-0	990	U	990	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	99	U	99	150	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	150	10000000	1
10132	4-Nitrotoluene	99-99-0	99	U	99	150	10000000	1
10132	PETN	78-11-5	990	U	990	3,000	10000000	1
10132	RDX	121-82-4	62	U	62	150	10000000	1
10132	Tetryl	479-45-8	76	U	76	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	50	U	50	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	50	U	50	150	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5		1
10401	Dalapon	75-99-0	5.4	U	5.4	11		1
10401	2,4-DB	94-82-6	0.77	U	0.77	2.1		1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5		1
10401	Dinoseb	88-85-7	0.99	U	0.99	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.99	U	0.99	2.1		1
10401	MCPA	94-74-6	94	U	94	310		1
10401	MCPP (Mecoprop)	93-65-2	93	U	93	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.093	U	0.093	0.21		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,500	U	1,500	3,700		1
	Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21		1
01363	Beta BHC	319-85-7	0.074	U	0.074	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21		1
01363	Chlordane	57-74-9	0.99	U	0.99	4.2		1
01363	p,p-DDD	72-54-8	0.082	U	0.082	0.42		1
01363	p,p-DDE	72-55-9	0.082	U	0.082	0.42		1
01363	p,p-DDT	50-29-3	0.17	J	0.082	0.42		1
01363	Delta BHC	319-86-8	0.044	U	0.044	0.21		1
01363	Dieldrin	60-57-1	0.082	U	0.082	0.42		1
01363	Endosulfan I	959-98-8	0.054	U	0.054	0.21		1
01363	Endosulfan II	33213-65-9	0.082	U	0.082	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42		1
01363	Endrin	72-20-8	0.082	U	0.082	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.082	U	0.082	0.42		1
01363	Endrin Ketone	53494-70-5	0.082	U	0.082	0.42		1
01363	Heptachlor	76-44-8	0.31		0.074	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.21		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1		1
01363	Mirex	2385-85-5	0.26	J	0.082	0.42		1
01363	Toxaphene	8001-35-2	4.3	J	2.7	8.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1		1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1		1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	8.6		0.41	2.1		1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.9	U	4.9	15		10
10199	EFH (C15-C20)	n.a.	5.0	J	4.9	15		10
10199	EFH (C21-C30)	n.a.	150		4.9	15		10
10199	EFH (C30 - C40)	n.a.	460		4.9	15		10

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Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	4.9	U	4.9	15		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	620		1
10501	Isopropanol	67-63-0	120	U	120	620		1
10501	Methanol	67-56-1	120	U	120	620		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	12		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	12		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.7	U	3.7	8.7		2
10318	o-Terphenyl	84-15-1	3.7	U	3.7	8.7		2
10318	p-Terphenyl	92-94-4	3.7	U	3.7	8.7		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,600		6.16	24.5		1
07914	Boron	7440-42-8	16.7		1.09	6.13		1
01650	Calcium	7440-70-2	3,800		7.51	24.5		1
01654	Iron	7439-89-6	24,500		5.77	24.5		1
01656	Lithium	7439-93-2	23.5		0.27	2.5		1
01657	Magnesium	7439-95-4	5,230		3.11	12.3		1
06958	Manganese	7439-96-5	174		0.0956	0.613		1
10145	Phosphorus	7723-14-0	263		0.686	12.3		1
01662	Potassium	7440-09-7	3,120		22.1	61.3		1
01667	Sodium	7440-23-5	116	J	45.7	123		1
07968	Strontium	7440-24-6	29.7		0.0760	0.613		1
06969	Tin	7440-31-5	2.89	J	1.23	12.3		1
06970	Titanium	7440-32-6	979		0.466	1.23		1
10146	Zirconium	7440-67-7	2.31	J	1.03	6.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.278		0.0721	0.240		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.05		0.0961	0.481		2
06126	Barium	7440-39-3	106		0.130	0.481		2
06127	Beryllium	7440-41-7	0.771		0.0192	0.120		2
06128	Cadmium	7440-43-9	0.656		0.0481	0.120		2
06131	Chromium	7440-47-3	31.2		0.144	0.481		2
06132	Cobalt	7440-48-4	9.33		0.0240	0.120		2

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Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	107	0.0793	0.481		2
06135	Lead	7439-92-1	12.8	0.0125	0.240		2
06138	Molybdenum	7439-98-7	0.338	0.0601	0.120		2
06139	Nickel	7440-02-0	19.6	0.120	0.481		2
06141	Selenium	7782-49-2	0.118 J	0.0481	0.481		2
06142	Silver	7440-22-4	0.0559 J	0.0144	0.120		2
06145	Thallium	7440-28-0	0.385	0.0357	0.119		2
06148	Vanadium	7440-62-2	50.7	0.0264	0.120		2
06149	Zinc	7440-66-6	370	1.68	9.01		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0303 J	0.0034	0.119		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.99	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9	0.99	1.9		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1 U	11.1	37.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25 U	0.25	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.22 U	0.22	0.61		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	19.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 21:39	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 06:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 20:18	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 07:21	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 21:39	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/25/2011 01:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 23:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 11:45	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 22:18	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 03:30	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 12:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/27/2011 04:02	Melissa McDermott	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1

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Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292003
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL090 SDG#: DE154-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:42	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 12:08	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202B	05/26/2011 00:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202B	05/26/2011 00:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	3	11144621201B	06/03/2011 00:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 05:54	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201B	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292004
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE154-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292004
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE154-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	7.9	J	3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	8.9	J	3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	14		3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	6.7	J	3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	5.7	J	3.7	9.3		5
10138	Chrysene	218-01-9	9.8		1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.3		5
10138	Fluoranthene	206-44-0	16		3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	5.8	J	3.7	9.3		5
10138	Pyrene	129-00-0	11		3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	3.1	U	3.1	3.1		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1
	Due to interfering peaks on the chromatogram, the values reported represent							

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Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292004
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE154-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.38		1
01363	p,p-DDE	72-55-9	0.27	U	0.27	0.38		1
01363	p,p-DDT	50-29-3	4.5		0.37	1.9		5
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	2.1	U	2.1	2.1		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	5.4		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	6.4		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	24,000		5.60	22.3		1
07914	Boron	7440-42-8	23.0		0.991	5.57		1
01650	Calcium	7440-70-2	8,040		6.83	22.3		1

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Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292004
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE154-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,700		5.25	22.3		1
01656	Lithium	7439-93-2	21.2		0.25	2.2		1
01657	Magnesium	7439-95-4	6,770		2.83	11.1		1
06958	Manganese	7439-96-5	423		0.0869	0.557		1
10145	Phosphorus	7723-14-0	446		0.624	11.1		1
01662	Potassium	7440-09-7	4,100		20.0	55.7		1
01667	Sodium	7440-23-5	131		41.5	111		1
07968	Strontium	7440-24-6	39.5		0.0691	0.557		1
06969	Tin	7440-31-5	2.64	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,160		0.423	1.11		1
10146	Zirconium	7440-67-7	2.83	J	0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.296		0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.18		0.0891	0.445		2
06126	Barium	7440-39-3	140		0.120	0.445		2
06127	Beryllium	7440-41-7	0.624		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.320		0.0445	0.111		2
06131	Chromium	7440-47-3	27.1		0.134	0.445		2
06132	Cobalt	7440-48-4	8.31		0.0223	0.111		2
06133	Copper	7440-50-8	18.1		0.0735	0.445		2
06135	Lead	7439-92-1	11.4		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.701		0.0557	0.111		2
06139	Nickel	7440-02-0	16.5		0.111	0.445		2
06141	Selenium	7782-49-2	0.143	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0383	J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.397		0.0331	0.110		2
06148	Vanadium	7440-62-2	60.6		0.0245	0.111		2
06149	Zinc	7440-66-6	86.5		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0211	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292004
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE154-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.97	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLB026	05/28/2011 07:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 20:50	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLB026	05/23/2011 04:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/25/2011 01:48	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 23:29	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	06/02/2011 17:53	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 12:03	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292004
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL202 SDG#: DE154-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 12:57	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202B	05/26/2011 00:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201B	06/02/2011 03:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11143243201A	05/25/2011 06:13	James S Mathiot	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201B	05/24/2011 11:00	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

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Analysis Report

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	44.0		19.3	38.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.42	J	0.38	1.9		1
10138	Anthracene	120-12-7	1.4	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.95	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	5.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.4	J	6.9	21		1
10138	Fluoranthene	206-44-0	15		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	6.8		0.76	1.9		1
10138	Pyrene	129-00-0	6.5		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1

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Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1

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Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.42	U	0.42	0.42		1
01363	p,p-DDE	72-55-9	0.47		0.077	0.40		1
01363	p,p-DDT	50-29-3	0.24	U	0.24	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.10	U	0.10	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.49	U	0.49	0.49		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.0		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	2.3		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	9.3		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	36		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.80	23.1		1
07914	Boron	7440-42-8	20.3		1.03	5.76		1
01650	Calcium	7440-70-2	4,480		7.07	23.1		1
01654	Iron	7439-89-6	27,800		5.43	23.1		1
01656	Lithium	7439-93-2	21.0		0.25	2.3		1
01657	Magnesium	7439-95-4	5,720		2.93	11.5		1
06958	Manganese	7439-96-5	454		0.0899	0.576		1
10145	Phosphorus	7723-14-0	252		0.645	11.5		1
01662	Potassium	7440-09-7	4,080		20.7	57.6		1
01667	Sodium	7440-23-5	100	J	43.0	115		1
07968	Strontium	7440-24-6	30.0		0.0715	0.576		1
06969	Tin	7440-31-5	2.82	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,150		0.438	1.15		1
10146	Zirconium	7440-67-7	2.20	J	0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.279		0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.60		0.0922	0.461		2
06126	Barium	7440-39-3	141		0.124	0.461		2
06127	Beryllium	7440-41-7	0.807		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.278		0.0461	0.115		2

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Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	30.6	0.138	0.461		2
06132	Cobalt	7440-48-4	10.7	0.0231	0.115		2
06133	Copper	7440-50-8	15.4	0.0761	0.461		2
06135	Lead	7439-92-1	10.8	0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.563	0.0576	0.115		2
06139	Nickel	7440-02-0	18.1	0.115	0.461		2
06141	Selenium	7782-49-2	0.152 J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0415 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.451	0.0349	0.116		2
06148	Vanadium	7440-62-2	58.0	0.0254	0.115		2
06149	Zinc	7440-66-6	75.1	0.645	3.46		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0405 J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4	0.93	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.52	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 21:56	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 03:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLC026	05/24/2011 21:22	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLC026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	2	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 08:03	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111400002A	05/23/2011 21:48	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111410009A	05/25/2011 02:16	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111400006A	05/30/2011 23:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111430014A	05/29/2011 12:22	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111400006A	05/20/2011 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111430014A	05/23/2011 16:50	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111410009A	05/23/2011 01:45	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111400002A	05/20/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 20:39	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111390030A	05/20/2011 03:45	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 12:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 10:59	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111390030A	05/19/2011 16:45	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292005
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP02 SDG#: DE154-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111435708002	05/26/2011 13:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026001D	05/27/2011 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026001C	05/27/2011 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026001B	05/31/2011 15:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026002A	06/03/2011 12:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026001A	05/27/2011 11:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711002	05/25/2011 06:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708002	05/24/2011 21:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026001	05/24/2011 21:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026002	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711002	05/24/2011 23:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11144621202B	05/26/2011 01:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11144621202B	05/26/2011 01:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11144621201B	06/02/2011 03:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11143243201A	05/25/2011 06:19	James S Mathiot	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11144621202B	05/24/2011 13:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11144621201B	05/24/2011 11:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11143039403B	05/23/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11143243201A	05/23/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB02-SA5DN-SS-051811 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5DN-SS-051811

LLI Sample # WW 6292006
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:00

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE154-15EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.25		0.506	1.01		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

The LCSD recovery for 2,4-Diamino-6-nitrotoluene and 2,6-Diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB02-SA5DN-SS-051811 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5DN-SS-051811

LLI Sample # WW 6292006
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:00

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE154-15EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.63		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.63		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.63		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.63		1
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.63		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl	84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl	92-94-4	0.083	U	0.083	0.26		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11144WAA026	05/25/2011 18:52	Gregory J Drahovsky	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11144WAA026	05/24/2011 13:25	Wanda F Oswald	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111430025A	05/25/2011 22:12	Michele D Hamilton	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB02-SA5DN-SS-051811 Water**
SSFL Area IV Collocated Soil Sampling
EB02-SA5DN-SS-051811

LLI Sample # WW 6292006
LLI Group # 1247619
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:00

Submitted: 05/19/2011 09:20
Reported: 06/21/2011 12:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-02 SDG#: DE154-15EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111400016A	05/23/2011 18:38	Michele D Hamilton	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111400016A	05/21/2011 09:15	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111430025A	05/24/2011 07:30	Olivia Arosemena	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111390007A	05/25/2011 13:14	Tracy A Cole	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111430039A	05/24/2011 01:42	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111450028A	05/25/2011 20:27	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111390008A	05/25/2011 02:46	Melissa McDermott	1
11203	EFH Waters Extraction	SW-846 3510C	1	111390007A	05/19/2011 18:10	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111390008A	05/19/2011 18:10	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11139196902B	05/20/2011 08:51	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11144117101B	05/25/2011 10:41	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11144117101B	05/24/2011 09:10	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11141SLB026	Sample number(s): 6291989-6292001,6292003-6292004									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	97		75-122		
Aniline	170 U		170.	500	ug/kg	79		34-94		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	78		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	97		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	98		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	99		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	97		67-125		
Benzoic acid	170 U		170.	500	ug/kg	69		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	91		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	76		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	93		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	98		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	59		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	56		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	32*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	97		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	88		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	85		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	78		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	96		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	89		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	92		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	83		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	58*		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	99		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	74		51-117		
Phenanthrene	17	U	17.	170	ug/kg	95		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	98		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11141SLC026	Sample number(s): 6291989-6292001,6292003-6292005									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	90		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	105		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	111		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	109		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	100		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	107		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	84		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	120		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	91		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		56-121		
Batch number: 11141SLH026	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11144WAA026	Sample number(s): 6292006									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	104	96	70-130	8	30
Batch number: 11151SLD026	Sample number(s): 6292005									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	54		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		68-105		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	77		51-117		
Phenol	17	U	17.	170	ug/kg	87		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 111430006A	Sample number(s): 6291994-6292001,6292003,6292005									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	126*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	107	54-134	7	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	107	54-134	7	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	129		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	119		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100	U	100.	300	ug/kg	108		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	145*		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	113		80-120		
PETN	800	U	800.	2,400	ug/kg	132*		80-120		
RDX	50	U	50.	120	ug/kg	116		75-131		
Tetryl	61	U	61.	120	ug/kg	82		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	119		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 111430025A	Sample number(s): 6292006									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	99	80-120	1	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	67	7*	50-122	164*	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	67	7*	50-122	164*	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	93	89	72-117	4	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	92	80-120	3	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	96	95	80-120	1	30
HMX	0.65	U	0.65	2.0	ug/l	88	84	65-125	5	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	93	87	75-121	7	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	92	87	74-120	6	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	92	90	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	90	86	80-120	5	30
PETN	6.0	U	6.0	18	ug/l	113	113	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	82	78	70-125	5	30
Tetryl	0.40	U	0.40	0.60	ug/l	82	82	72-141	0	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	85	83	53-129	2	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	94	93	76-109	1	30
Batch number: 111400002A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	92		80-126		
Batch number: 111400016A	Sample number(s): 6292006									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	98	96	69-130	2	30
Batch number: 111410009A	Sample number(s): 6291989-6292001,6292003-6292005									
2,4-D	1.2	U	1.2	3.6	ug/kg	103		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	43		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	105		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	13		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	110		62-170		
MCPA	76	U	76.	250	ug/kg	78		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	77		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	101		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	88		68-114		
Batch number: 111430024A	Sample number(s): 6291991,6291999-6292001									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111400006A	Sample number(s): 6291989-6292001,6292003-6292005									
Aldrin	0.066	U	0.066	0.17	ug/kg	58		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	97		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	94		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	136		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	86		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	110		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	98		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	88		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	77		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	97		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	123		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	73		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	105		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	106		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	79		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	119		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111430014A	Sample number(s): 6291989-6292001,6292003-6292005									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	96	85	36-106	11	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	109		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111390007A	Sample number(s): 6292006									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	80	78	69-125	3	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	91	84	77-125	8	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	85	68-124	9	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	113	93	80-121	19	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	70	68	46-103	3	30
Batch number: 111440028A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	96		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 111390030A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	97		68-129		
Batch number: 111430018A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Batch number: 111430039A	Sample number(s): 6292006									
Ethanol	200 U		200.	1,000	ug/l	96		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	100		71-140		
Batch number: 111450028A	Sample number(s): 6292006									
Diethylene glycol	10	U	10.	100	mg/l	120	120	78-126	0	20
Ethylene glycol	10	U	10.	100	mg/l	110	115	80-124	4	20
Propylene glycol	10	U	10.	100	mg/l	110	105	80-120	5	20
Batch number: 111390008A	Sample number(s): 6292006									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	84	77	75-125	9	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	98	89	75-125	10	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	91	83	75-125	9	20
Batch number: 111430017A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
Batch number: 111431026001A	Sample number(s): 6291989-6292005									
Antimony	0.0600	U	0.0600	0.200	mg/kg	112		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	107		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	114		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	119		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	106		82-118		
Copper	0.0660	U	0.0660	0.400	mg/kg	104		83-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.0104	U	0.0104	0.200	mg/kg	102		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	108		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	105		81-111		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	110		81-112		
Batch number: 111431026001B	Sample number(s): 6291989-6292005									
Selenium	0.0400	U	0.0400	0.400	mg/kg	107		83-111		
Batch number: 111431026001C	Sample number(s): 6291989-6292005									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	120		78-122		
Batch number: 111431026001D	Sample number(s): 6291989-6292005									
Barium	0.108	U	0.108	0.400	mg/kg	106		81-111		
Batch number: 111435708002	Sample number(s): 6291989-6292005									
Aluminum	5.95	J	5.03	20.0	mg/kg	83		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	101		78-110		
Calcium	12.5	J	6.13	20.0	mg/kg	103		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	91		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	104		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	105		89-112		
Phosphorus	1.19	J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3	U	37.3	100	mg/kg	98		87-110		
Strontium	0.0620	J	0.0620	0.500	mg/kg	99		86-110		
Tin	1.45	J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	85		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	105		80-120		
Batch number: 111435711002	Sample number(s): 6291989-6292005									
Mercury	0.0096	J	0.0028	0.0976	mg/kg	101		88-123		
Batch number: 111531026002A	Sample number(s): 6291990-6292005									
Thallium	0.0291	U	0.0291	0.0971	mg/kg	106		83-110		
Batch number: 111531026004A	Sample number(s): 6291989									
Thallium	0.0288	U	0.0288	0.0962	mg/kg	105		83-110		
Batch number: 11139196902B	Sample number(s): 6292006									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	96	97	90-110	1	20
Batch number: 11143243201A	Sample number(s): 6291989-6292000,6292002-6292005									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	84		80-120		
Batch number: 11144117101B	Sample number(s): 6292006									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	95	91	90-110	4	20
Batch number: 11144621201A	Sample number(s): 6291989-6291998									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11144621201B	Sample number(s): 6291999-6292000,6292002-6292005									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11144621202A	Sample number(s): 6291989-6291998									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11144621202B	Sample number(s): 6291999-6292000,6292002-6292005									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11145102201A	Sample number(s): 6291994-6291997,6291999-6292000,6292002-6292003,6292005									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11143039403A	Sample number(s): 6291989-6291993									
18a pH by 9045C						100		95-105		
Batch number: 11143039403B	Sample number(s): 6291994-6291999,6292002-6292005									
18a pH by 9045C						100		95-105		
Batch number: 11147162401B	Sample number(s): 6291989-6291993,6292004									
Moisture Content by 160.3						100		80-120		
Batch number: 11152162401A	Sample number(s): 6291994-6292003									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11152162401B	Sample number(s): 6292005									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11141SLB026	Sample number(s): 6291989-6292001,6292003-6292004 UNSPK: 6291999								
Acenaphthene	96	93	75-115	3	30				
Acenaphthylene	100	95	81-110	5	30				
Aniline	68	64	35-95	5	30				
Anthracene	97	96	75-115	1	30				
Benzidine	17*	21*	35-141	23	30				
Benzo(a)anthracene	100	93	65-122	7	30				
Benzo(a)pyrene	96	95	57-126	1	30				
Benzo(b)fluoranthene	88	90	59-125	2	30				
Benzo(g,h,i)perylene	98	94	59-127	4	30				
Benzo(k)fluoranthene	98	95	56-132	2	30				
Benzoic acid	90	74	10-173	20	30				
Benzyl alcohol	93	88	67-115	5	30				
4-Bromophenyl-phenylether	99	95	67-129	4	30				
Butylbenzylphthalate	100	94	73-134	6	30				
Di-n-butylphthalate	93	91	67-123	1	30				
Carbazole	96	92	64-120	4	30				
4-Chloro-3-methylphenol	92	85	76-110	7	30				
4-Chloroaniline	53	58	23-95	10	30				
bis(2-Chloroethoxy)methane	94	88	75-104	6	30				
bis(2-Chloroethyl)ether	94	86	60-116	9	30				
bis(2-Chloroisopropyl)ether	86	82	55-142	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloronaphthalene	77	76	50-141	1	30				
2-Chlorophenol	96	93	73-121	3	30				
4-Chlorophenyl-phenylether	94	92	80-109	2	30				
Chrysene	99	94	62-128	6	30				
Dibenz(a,h)anthracene	98	96	65-125	1	30				
Dibenzofuran	96	92	71-112	3	30				
1,2-Dichlorobenzene	84	81	66-108	3	30				
1,3-Dichlorobenzene	80	80	63-109	0	30				
1,4-Dichlorobenzene	83	79	70-100	5	30				
3,3'-Dichlorobenzidine	73	64	16-119	13	30				
2,4-Dichlorophenol	98	92	78-117	7	30				
Diethylphthalate	92	87	66-118	5	30				
2,4-Dimethylphenol	94	88	78-110	6	30				
3,5-Dimethylphenol	103	96	70-130	7	30				
Dimethylphthalate	95	91	64-118	4	30				
4,6-Dinitro-2-methylphenol	76	63	24-116	19	30				
2,4-Dinitrophenol	65	45	20-143	36*	30				
2,4-Dinitrotoluene	94	91	73-113	3	30				
2,6-Dinitrotoluene	98	95	69-123	3	30				
1,2-Diphenylhydrazine	105	102	71-129	2	30				
bis(2-Ethylhexyl)phthalate	95	89	63-122	6	30				
Fluoranthene	96	93	73-112	3	30				
Fluorene	94	88	77-111	6	30				
Hexachlorobenzene	97	94	77-114	3	30				
Hexachlorobutadiene	92	87	62-120	5	30				
Hexachlorocyclopentadiene	56	51	10-153	8	30				
Hexachloroethane	79	74	57-109	6	30				
Indeno(1,2,3-cd)pyrene	97	96	61-126	0	30				
Isophorone	93	87	73-102	6	30				
1-Methylnaphthalene	92	87	73-112	6	30				
2-Methylnaphthalene	86	82	76-114	4	30				
2-Methylphenol	89	87	75-111	2	30				
4-Methylphenol	96	91	71-111	5	30				
Naphthalene	92	86	72-116	6	30				
2-Nitroaniline	102	98	67-125	4	30				
3-Nitroaniline	91	89	59-122	2	30				
4-Nitroaniline	76	68	52-112	10	30				
Nitrobenzene	99	93	72-106	6	30				
2-Nitrophenol	94	89	74-115	5	30				
4-Nitrophenol	88	84	54-113	5	30				
N-Nitroso-di-n-propylamine	85	81	60-116	5	30				
N-Nitrosodimethylamine	91	90	47-116	0	30				
N-Nitrosodiphenylamine	100	98	86-145	1	30				
Di-n-octylphthalate	97	95	56-126	2	30				
Pentachlorophenol	52	55	28-127	6	30				
Phenanthrene	97	94	65-125	3	30				
Phenol	95	92	58-126	4	30				
Pyrene	101	95	74-126	6	30				
1,2,4-Trichlorobenzene	100	92	72-115	8	30				
2,4,5-Trichlorophenol	96	93	78-109	2	30				
2,4,6-Trichlorophenol	102	97	77-115	5	30				

Batch number: 11141SLC026 Sample number(s): 6291989-6292001,6292003-6292005 UNSPK: 6291999

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	104	110*	63-105	5	30				
Acenaphthylene	106	107	67-114	0	30				
Anthracene	96	88	60-122	9	30				
Benzo(a)anthracene	93	109	59-128	14	30				
Benzo(a)pyrene	103	109	45-138	5	30				
Benzo(b)fluoranthene	88	129	43-155	29	30				
Benzo(g,h,i)perylene	50	50	33-141	0	30				
Benzo(k)fluoranthene	132	130	42-144	2	30				
Butylbenzylphthalate	118	104	57-173	13	30				
Di-n-butylphthalate	107	110	65-148	3	30				
Chrysene	77	94	48-134	15	30				
Dibenz(a,h)anthracene	78	71	22-133	9	30				
Diethylphthalate	106	107	70-136	0	30				
Dimethylphthalate	106	110	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	97	116	39-167	14	30				
Fluoranthene	76	98	26-166	14	30				
Fluorene	113	108	66-122	4	30				
Indeno(1,2,3-cd)pyrene	71	65	21-143	9	30				
1-Methylnaphthalene	98	86	72-123	13	30				
2-Methylnaphthalene	90	90	64-103	0	30				
Naphthalene	93	93	61-102	1	30				
N-Nitrosodimethylamine	68	71	48-113	4	30				
Di-n-octylphthalate	159	186	40-192	15	30				
Phenanthrene	74	76	12-165	1	30				
Pyrene	80	93	15-153	11	30				
Batch number: 11141SLH026	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005 UNSPK: 6291999								
N-Nitrosodimethylamine	82	72	70-130	11	30				
Batch number: 11151SLD026	Sample number(s): 6292005 UNSPK: P298873								
Aniline	62	78	35-95	23	30				
Benzidine	19*	31*	35-141	50*	30				
Benzoic acid	60	95	10-173	45*	30				
Benzyl alcohol	84	96	67-115	13	30				
4-Bromophenyl-phenylether	79	92	67-129	15	30				
Carbazole	84	100	64-120	18	30				
4-Chloro-3-methylphenol	84	99	76-110	16	30				
4-Chloroaniline	47	60	23-95	25	30				
bis(2-Chloroethoxy)methane	81	92	75-104	13	30				
bis(2-Chloroethyl)ether	77	88	60-116	14	30				
bis(2-Chloroisopropyl)ether	76	90	55-142	17	30				
2-Chloronaphthalene	57	69	50-141	19	30				
2-Chlorophenol	86	99	73-121	14	30				
4-Chlorophenyl-phenylether	80	99	80-109	21	30				
Dibenzofuran	82	98	71-112	17	30				
1,2-Dichlorobenzene	70	83	66-108	17	30				
1,3-Dichlorobenzene	69	82	63-109	17	30				
1,4-Dichlorobenzene	69*	81	70-100	15	30				
3,3'-Dichlorobenzidine	39	53	16-119	29	30				
2,4-Dichlorophenol	86	98	78-117	13	30				
2,4-Dimethylphenol	83	99	78-110	17	30				
3,5-Dimethylphenol	91	107	70-130	16	30				
4,6-Dinitro-2-methylphenol	64	83	24-116	25	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	46	79	20-143	52*	30				
2,4-Dinitrotoluene	83	100	73-113	19	30				
2,6-Dinitrotoluene	83	100	69-123	18	30				
1,2-Diphenylhydrazine	84	97	71-129	15	30				
Hexachlorobenzene	80	95	77-114	17	30				
Hexachlorobutadiene	74	88	62-120	18	30				
Hexachlorocyclopentadiene	69	84	10-153	19	30				
Hexachloroethane	65	77	57-109	16	30				
Isophorone	80	95	73-102	17	30				
2-Methylphenol	83	93	75-111	12	30				
4-Methylphenol	82	92	71-111	12	30				
2-Nitroaniline	84	102	67-125	20	30				
3-Nitroaniline	81	101	59-122	21	30				
4-Nitroaniline	63	80	52-112	24	30				
Nitrobenzene	78	93	72-106	17	30				
2-Nitrophenol	80	92	74-115	14	30				
4-Nitrophenol	68	88	54-113	27	30				
N-Nitroso-di-n-propylamine	77	92	60-116	17	30				
N-Nitrosodiphenylamine	81*	95	86-145	16	30				
Pentachlorophenol	76	92	28-127	19	30				
Phenol	78	88	58-126	12	30				
1,2,4-Trichlorobenzene	77	91	72-115	17	30				
2,4,5-Trichlorophenol	80	99	78-109	21	30				
2,4,6-Trichlorophenol	82	97	77-115	17	30				
Batch number: 111430006A	Sample number(s): 6291994-6292001,6292003,6292005 UNSPK: 6291999								
4-Amino-2,6-Dinitrotoluene	95	104	80-127	10	50				
2-Amino-4,6-Dinitrotoluene	97	106	80-137	11	50				
1,3-Dinitrobenzene	104	111	38-166	9	50				
2,4-Dinitrotoluene	93	102	80-131	11	50				
2,6-Dinitrotoluene	93	99	80-127	9	50				
HMX	83	91	63-128	12	50				
Nitrobenzene	115	125	80-125	10	50				
Nitroglycerin	92	99	80-120	10	50				
2-Nitrotoluene	94	101	80-122	9	50				
3-Nitrotoluene	97	104	72-119	9	50				
4-Nitrotoluene	93	100	80-125	9	50				
PETN	109	118	80-121	10	50				
RDX	80	90	75-129	13	50				
Tetryl	60	69	55-174	15	50				
1,3,5-Trinitrobenzene	90	101	82-126	13	50				
2,4,6-Trinitrotoluene	91	100	82-130	11	50				
Batch number: 111400002A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005 UNSPK: 6291999								
25a Formaldehyde 8315A	90	89	80-120	1	50				
Batch number: 111410009A	Sample number(s): 6291989-6292001,6292003-6292005 UNSPK: 6291999								
2,4-D	113	103	17-180	9	35				
Dalapon	25	33	10-125	28	50				
2,4-DB	10	9*	10-201	1	50				
Dicamba	111	105	10-190	6	50				
Dinoseb	17	16	10-46	10	35				
2,4-DP (Dichlorprop)	103	92	33-178	11	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
MCPA	103	102	10-213	1	50				
MCPP (Mecoprop)	77	65	10-184	16	50				
2,4,5-T	59	53	10-156	11	35				
2,4,5-TP	46	46	24-141	0	35				
Batch number: 111430024A	Sample number(s): 6291991,6291999-6292001 UNSPK: 6291999								
6a Perchlorate EPA 6850	109	111	80-120	2	20				
Batch number: 111400006A	Sample number(s): 6291989-6292001,6292003-6292005 UNSPK: 6291999								
Aldrin	36	39	16-126	8	50				
Alpha BHC	67	70	10-129	4	50				
Beta BHC	0*	38	14-147	200*	50				
Gamma BHC - Lindane	61	58	10-140	5	50				
p,p-DDD	34	26	16-163	14	50				
p,p-DDE	12*	17*	18-161	7	50				
p,p-DDT	-34*	-33*	10-176	1	50				
Delta BHC	47	47	23-140	0	50				
Dieldrin	30	29	19-154	4	50				
Endosulfan I	42	33	16-137	24	50				
Endosulfan II	48	38	28-154	21	50				
Endosulfan Sulfate	71	40	21-160	56*	50				
Endrin	64	55	11-149	15	50				
Endrin Aldehyde	41	41	10-148	0	35				
Endrin Ketone	17*	-1*	22-165	36	50				
Heptachlor	58	36	13-126	29	50				
Heptachlor Epoxide	39	55	13-157	32	50				
Methoxychlor	48	38	32-147	23	50				
Batch number: 111430014A	Sample number(s): 6291989-6292001,6292003-6292005 UNSPK: 6291999								
PCB-1016	97	122	29-146	24	50				
PCB-1260	83	100	39-149	19	50				
Batch number: 111440028A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005 UNSPK: 6291999								
EFH (C12-C14)	101	100	49-123	1	20				
EFH (C15-C20)	60	113	49-123	16	20				
EFH (C21-C30)	101 (2)	286 (2)	49-123	30*	20				
EFH (C30 - C40)	248 (2)	541 (2)	49-123	21*	20				
EFH (C8-C11)	90	88	49-123	3	20				
Batch number: 111390030A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005 UNSPK: 6291999								
Ethanol	42*	33*	48-130	24*	20				
Isopropanol	66	64	12-149	3	20				
Methanol	55	52	43-138	5	20				
Batch number: 111430018A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005 UNSPK: 6291999								
Diethylene glycol	36*	56*	59-109	45*	20				
Ethylene glycol	44*	71	63-107	47*	20				
Propylene glycol	48*	77	63-107	45*	20				
Batch number: 111430039A	Sample number(s): 6292006 UNSPK: P291609								
Ethanol	96	96	62-145	0	20				
Isopropanol	100	96	73-131	4	20				
Methanol	96	100	52-159	4	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111430017A	Sample number(s): 6291994-6291997,6291999-6292001,6292003,6292005 UNSPK: 6291999								
m-Terphenyl	63*	62*	75-125	2	20				
o-Terphenyl	92	95	75-125	3	20				
p-Terphenyl	83	80	75-125	4	20				
Batch number: 111431026001A	Sample number(s): 6291989-6292005 UNSPK: 6291999 BKG: 6291999								
Antimony	103	90	75-125	13	20	0.236	0.268	13 (1)	20
Arsenic	321*	271*	75-125	10	20	5.22	5.21	0	20
Beryllium	172*	160*	75-125	6	20	0.760	0.765	1	20
Cadmium	181*	160*	75-125	12	20	0.300	0.268	11 (1)	20
Chromium	298*	274*	75-125	5	20	26.8	27.7	3	20
Cobalt	169*	153*	75-125	11	20	8.71	9.04	4	20
Copper	234*	203*	75-125	10	20	14.7	14.0	5	20
Lead	335*	288*	75-125	9	20	8.98	9.11	1	20
Nickel	257*	235*	75-125	6	20	17.6	17.6	0	20
Silver	148*	142*	75-125	6	20	0.0479 J	0.0438 J	9 (1)	20
Vanadium	447 (2)	406 (2)	75-125	5	20	50.5	53.1	5	20
Zinc	639 (2)	426 (2)	75-125	18	20	67.0	67.3	0	20
Batch number: 111431026001B	Sample number(s): 6291989-6292005 UNSPK: 6291999 BKG: 6291999								
Selenium	85	90	75-125	3	20	0.153 J	0.144 J	6 (1)	20
Batch number: 111431026001C	Sample number(s): 6291989-6292005 UNSPK: 6291999 BKG: 6291999								
Molybdenum	164*	148*	75-125	12	20	0.503	0.475	6 (1)	20
Batch number: 111431026001D	Sample number(s): 6291989-6292005 UNSPK: 6291999 BKG: 6291999								
Barium	5 (2)	99 (2)	75-125	7	20	121	125	3	20
Batch number: 111435708002	Sample number(s): 6291989-6292005 UNSPK: 6291999 BKG: 6291999								
Aluminum	1655 (2)	2096 (2)	75-125	3	20	23,000	21,100	9	20
Boron	97	96	84-115	5	20	19.8	18.3	8 (1)	20
Calcium	22 (2)	87 (2)	75-125	6	20	4,040	3,820	6	20
Iron	-1102 (2)	-675 (2)	75-125	2	20	25,600	23,700	8	20
Lithium	103	103	82-114	3	20	18.9	17.8	6	20
Magnesium	47 (2)	193 (2)	75-125	5	20	5,050	4,810	5	20
Manganese	146 (2)	150 (2)	75-125	0	20	343	386	12	20
Phosphorus	93	103	75-125	2	20	219	227	4	20
Potassium	108	158*	75-125	9	20	3,610	3,660	1	20
Sodium	97	97	75-125	3	20	91.5 J	83.6 J	9 (1)	20
Strontium	96	97	75-115	3	20	27.0	26.0	4	20
Tin	91	90	80-110	5	20	2.44 J	2.29 J	6 (1)	20
Titanium	221 (2)	341 (2)	75-125	8	20	1,010	1,020	1	20
Zirconium	95	95	75-125	4	20	2.64 J	3.50 J	28* (1)	20
Batch number: 111435711002	Sample number(s): 6291989-6292005 UNSPK: 6291999 BKG: 6291999								
Mercury	98	98	65-135	3	20	0.0297 J	0.0168 J	55* (1)	20
Batch number: 111531026002A	Sample number(s): 6291990-6292005 UNSPK: 6291999 BKG: 6291999								
Thallium	158*	129*	75-125	13	20	0.396	0.407	3 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111531026004A	Sample number(s): 6291989 UNSPK: P292036 BKG: P292036								
Thallium	81	94	75-125	9	20	0.265	0.260	2 (1)	20
Batch number: 11143243201A	Sample number(s): 6291989-6292000,6292002-6292005 UNSPK: 6291999 BKG: 6291999								
3a Cr VI by EPA 7199	86		75-125			0.20 U	0.30 J	200* (1)	20
Batch number: 11144621201A	Sample number(s): 6291989-6291998 UNSPK: 6291989 BKG: 6291989								
7a Perchlorate EPA 314.0	104		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11144621201B	Sample number(s): 6291999-6292000,6292002-6292005 UNSPK: 6291999 BKG: 6291999								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11144621202A	Sample number(s): 6291989-6291998 UNSPK: 6291989 BKG: 6291989								
11a Anions by 300.0 - Fluoride	77*		80-120			3.9	3.0	25* (1)	20
11a Anions by 300.0 - Nitrate	109		80-120			2.5	2.5	1 (1)	20
Batch number: 11144621202B	Sample number(s): 6291999-6292000,6292002-6292005 UNSPK: 6291999 BKG: 6291999								
11a Anions by 300.0 - Fluoride	28*		80-120			1.9	2.0	5 (1)	20
11a Anions by 300.0 - Nitrate	107		80-120			1.9	2.0	8 (1)	20
Batch number: 11145102201A	Sample number(s): 6291994-6291997,6291999-6292000,6292002-6292003,6292005 UNSPK: 6291999 BKG: 6291999								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11143039403A	Sample number(s): 6291989-6291993 BKG: 6291993								
18a pH by 9045C						8.22	8.24	0	3
Batch number: 11143039403B	Sample number(s): 6291994-6291999,6292002-6292005 BKG: 6291999								
18a pH by 9045C						6.56	6.59	0	3
Batch number: 11147162401B	Sample number(s): 6291989-6291993,6292004 BKG: 6292004								
Moisture Content by 160.3						11.1	12.2	10	20
Batch number: 11152162401A	Sample number(s): 6291994-6292003 BKG: 6291999								
28a Moisture Content by 160.3						13.8	15.1	9	20
Moisture Content by 160.3						13.8	15.1	9	20
Moisture Content by 160.3						13.8	15.1	9	20
Batch number: 11152162401B	Sample number(s): 6292005 BKG: 6292005								
Moisture Content by 160.3						14.1	13.3	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11141SLB026

Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Surrogate Quality Control

6291989	90	94	68	88	91	81
6291990	75	79	62	77	78	66
6291991	87	91	74	91	95	82
6291992	91	94	73	91	95	84
6291993	90	94	79	91	94	85
6291994	86	88	79	90	93	80
6291995	86	90	79	88	91	77
6291996	90	95	86	93	94	83
6291997	85	88	78	89	90	79
6291998	85	86	79	88	90	83
6291999	91	94	84	93	97	85
6292000	92	94	83	92	94	85
6292001	87	88	78	86	89	81
6292003	89	93	81	89	91	80
6292004	86	90	79	88	87	77
Blank	91	92	81	89	89	82
LCS	92	91	88	88	91	85
MS	92	94	83	92	94	85
MSD	87	88	78	86	89	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11141SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6291989	100	103	83
6291990	98	94	76
6291991	94	83	74
6291992	120	110	94
6291993	110	105	86
6291994	93	86	72
6291995	90	83	69
6291996	122	100	84
6291997	99	91	77
6291998	112	97	86
6291999	105	104	139*
6292000	113	107	116
6292001	108	107	114
6292003	95	90	78
6292004	91	81	75
6292005	113	97	81
Blank	104	96	111
LCS	103	92	101
MS	113	107	116
MSD	108	107	114
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11141SLH026

	N-Nitrosodimethylamine-d6
6291994	119
6291995	99
6291996	94

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Surrogate Quality Control

6291997	113
6291999	126
6292000	126
6292001	130
6292003	127
6292005	119
Blank	104
LCS	103
MS	126
MSD	130
Limits:	50-150

Analysis Name: 15b NDMA by 1625C
Batch number: 11144WAA026

	N-Nitrosodimethylamine-d6
6292006	111
Blank	97
LCS	96
LCSD	109
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11151SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6292005	85	88	90	82	82	83
Blank	85	89	85	82	83	81
LCS	92	94	97	85	87	86
MS	85	86	83	79	77	77
MSD	91	93	98	86	87	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111400002A

	Butyraldehyde
6291994	117
6291995	125
6291996	122
6291997	124
6291999	125
6292000	112
6292001	116
6292003	125
6292005	116
Blank	125
LCS	119
MS	112
MSD	116
Limits:	64-126

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Surrogate Quality Control

Analysis Name: 12a Pesticides by 8081A
Batch number: 111400006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6291989	76	92
6291990	26*	20
6291991	39*	63
6291992	59	67
6291993	56	85
6291994	18*	34
6291995	75	187*
6291996	45*	26
6291997	34*	63
6291998	53	0*
6291999	53	47
6292000	35*	56
6292001	40*	37
6292003	57	53
6292004	58	85
6292005	40*	47
Blank	63	103
LCS	64	99
MS	35*	56
MSD	40*	37
Limits:	50-130	20-120

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111400016A

	Butyraldehyde
6292006	119
Blank	105
LCS	105
LCSD	110
Limits:	45-145

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111410009A

	2,4-Dichlorophenylacetic acid
6291989	128
6291990	112
6291991	89
6291992	104
6291993	93
6291994	105
6291995	94
6291996	102
6291997	85
6291998	93
6291999	77
6292000	104
6292001	103
6292003	119

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Surrogate Quality Control

6292004	83
6292005	96
Blank	92
LCS	92
MS	104
MSD	103
Limits:	36-156

Analysis Name: 16a Energetics by 8330A
Batch number: 111430006A

	2-Nitro-m-xylene
6291994	99
6291995	114
6291996	109
6291997	106
6291998	101
6291999	114
6292000	101
6292001	99
6292003	110
6292005	96
Blank	114
LCS	121
LCSD	114
MS	101
MSD	99
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111430014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6291989	105	82
6291990	92	84
6291991	105	79
6291992	119	83
6291993	121	102
6291994	91	82
6291995	93	81
6291996	117	95
6291997	96	77
6291998	115	83
6291999	136	106
6292000	105	79
6292001	118	98
6292003	73	576*
6292004	70	56
6292005	114	70
Blank	114	119
LCS	115	111
LCSD	111	111
MS	105	79
MSD	118	98
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Surrogate Quality Control

Analysis Name: 16b Energetics by 8330A
Batch number: 111430025A

	2-Nitro-m-xylene
6292006	86
Blank	86
LCS	88
LCSD	88
Limits:	50-134

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111390007A

	Chlorobenzene	Orthoterphenyl
6292006	79	102
Blank	71	76
LCS	75	80
LCSD	70	75
Limits:	28-152	52-131

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111390008A

	n-Triacontane-d62
6292006	82
Blank	80
LCS	87
LCSD	78
Limits:	50-150

Analysis Name: 19a Alcohols by 8015B
Batch number: 111390030A

	Acetone
6291994	67
6291995	68
6291996	64
6291997	69
6291999	67
6292000	77
6292001	77
6292003	65
6292005	62
Blank	84
LCS	83
MS	77
MSD	77
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111430017A

	n-Triacontane-d62

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Surrogate Quality Control

6291994	28*
6291995	127
6291996	94
6291997	98
6291999	118
6292000	115
6292001	74
6292003	130
6292005	67
Blank	89
LCS	87
MS	115
MSD	74
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111430018A

	Tetramethylene glycol
6291994	75
6291995	72
6291996	70
6291997	80
6291999	84
6292000	78
6292001	77
6292003	81
6292005	76
Blank	90
LCS	96
MS	78
MSD	77
Limits:	29-137

Analysis Name: 19b Alcohols by 8015B
Batch number: 111430039A

	Acetone
6292006	99
Blank	98
LCS	97
MS	97
MSD	98
Limits:	54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111440028A

	Chlorobenzene	Orthoterphenyl
6291994	77	90
6291995	94	104
6291996	69	92
6291997	82	92

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247619
Reported: 06/21/11 at 12:06 PM

Surrogate Quality Control

6291999	73	93
6292000	84	100
6292001	81	97
6292003	61	69
6292005	66	88
Blank	85	95
LCS	88	97
MS	84	100
MSD	81	97
Limits:	37-125	47-145

Analysis Name: 21b Glycols by 8015B
Batch number: 111450028A

	Tetramethylene glycol
6292006	105
Blank	105
LCS	114
LCSD	112
Limits:	77-119

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1247619 6291989-2006

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-054-SA5DN-SS-0.0-0.5	05.18.11	1350	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X									
SL-054-SA5DN-SS-0.0-0.5	05.18.11	1350	SOIL	NONE	1-SS sleeve			X	X																
SL-055-SA5DN-SS-0.0-0.5	05.18.11	1430	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X									
SL-055-SA5DN-SS-0.0-0.5	05.18.11	1430	SOIL	NONE	1-SS sleeve			X	X																
SL-056-SA5DN-SS-0.0-0.5	05.18.11	1453	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X									
SL-056-SA5DN-SS-0.0-0.5	05.18.11	1453	SOIL	NONE	1-SS sleeve			X	X																
SL-058-SA5DN-SS-0.0-0.5	05.18.11	1515	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X									
SL-058-SA5DN-SS-0.0-0.5	05.18.11	1515	SOIL	NONE	1-SS sleeve			X	X																
SL-059-SA5DN-SS-0.0-0.5	05.18.11	1408	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X									
SL-059-SA5DN-SS-0.0-0.5	05.18.11	1408	SOIL	NONE	1-SS sleeve			X	X																
SL-064-SA5DN-SS-0.0-0.5	05.18.11	1028	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-064-SA5DN-SS-0.0-0.5	05.18.11	1028	SOIL	NONE	1-SS sleeve			X	X																
SL-065-SA5DN-SS-0.0-0.5	05.18.11	1053	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-065-SA5DN-SS-0.0-0.5	05.18.11	1053	SOIL	NONE	1-SS sleeve			X	X																
SL-086-SA5DN-SS-0.0-0.5	05.18.11	0950	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-086-SA5DN-SS-0.0-0.5	05.18.11	0950	SOIL	NONE	1-SS sleeve			X	X																
SL-087-SA5DN-SS-0.0-0.5	05.18.11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-087-SA5DN-SS-0.0-0.5	05.18.11	0930	SOIL	NONE	1-SS sleeve			X	X																
SL-088-SA5DN-SS-0.0-0.5	05.18.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X				
SL-088-SA5DN-SS-0.0-0.5	05.18.11	1015	SOIL	NONE	1-SS sleeve			X	X																
SL-089-SA5DN-SS-0.0-0.5MS	05.18.11	0905	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-089-SA5DN-SS-0.0-0.5MS	05.18.11	0905	SOIL	NONE	2-SS sleeves			X	X																MS/MSD sample
SL-090-SA5DN-SS-0.0-0.5	05.18.11	0840	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-090-SA5DN-SS-0.0-0.5	05.18.11	0840	SOIL	NONE	1-SS sleeve			X	X																
SL-202-SA5DN-SS-0.0-0.5	05.18.11	1310	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X									
SL-202-SA5DN-SS-0.0-0.5	05.18.11	1310	SOIL	NONE	1-SS sleeve			X	X																
DUP-02-SA5DN-QC-051811	05.18.11	0910	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
DUP-02-SA5DN-QC-051811	05.18.11	0910	SOIL	NONE	1-SS sleeve			X	X																

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/18/2011 / 1700	5/19/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1441 7836; 8695 1441 7847 8695 1441 7858; 8695 1441 7869	

13013 1247619 629 1989 - 2006

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:															
SAMPLE NUMBER 8 NLM 5/26/11	DATE	TIME	MATRIX	Preservative	Type & No. of Containers										
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	NONE	5-1 liter ambers	X			X	X		X			
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	NaOH	1-500 mL glass						X				
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	None	1-250 mL glass			X							
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	HCl	2-40 mL vial									X	
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	NONE	4-40 mL vial		X						X		
Relinquished by: (*Signature*)			Received for Laboratory by: (*Signature*) 5/19/11 920												Laboratory: Lancaster Laboratories, inc.
Received by: (*Signature*)			Airbill No(s) 8695 1441 7836; 8695 1441 7847 8695 1441 7858; 8695 1441 7869												NOTE: Date on bottles should be 5/18/2011

The Sample ID was updated per PB's instructions on 5/18/11. NLM 5/26/11

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Wednesday, May 18, 2011 9:11 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie
Subject: FW: The COC for 5/18/2011
Attachments: COC 05 18 11.xlsx

Is attached. However, I really messed up this time. I just realized that the encores and trip blank did not make it into the coolers. I will send the encores tomorrow.

Also, the equipment blank was not properly labeled – the bottles are labeled with a date of 5/19/11 instead of 5/18/11 and the sample number on the bottles (EB02-SA5DN-SS-051911) is incorrect and should be EB02-SA5DN-SS-051811 as shown on the attached COC.

Also, beginning with this shipment ORP will no longer be run in conjunction with the Hex chrome soil analyses.

I will send the encores with tomorrow's samples.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/19/2011
Group Number: 1247623
SDG: DX084
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-054-SA5DN-SS-0.0-0.5 Soil	6292014
SL-055-SA5DN-SS-0.0-0.5 Soil	6292015
SL-056-SA5DN-SS-0.0-0.5 Soil	6292016
SL-058-SA5DN-SS-0.0-0.5 Soil	6292017
SL-059-SA5DN-SS-0.0-0.5 Soil	6292018
SL-064-SA5DN-SS-0.0-0.5 Soil	6292019
SL-065-SA5DN-SS-0.0-0.5 Soil	6292020
SL-086-SA5DN-SS-0.0-0.5 Soil	6292021
SL-087-SA5DN-SS-0.0-0.5 Soil	6292022
SL-088-SA5DN-SS-0.0-0.5 Soil	6292023
SL-089-SA5DN-SS-0.0-0.5 Soil	6292024
SL-089-SA5DN-SS-0.0-0.5MS Soil	6292025
SL-089-SA5DN-SS-0.0-0.5MSD Soil	6292026
SL-090-SA5DN-SS-0.0-0.5 Soil	6292027
SL-202-SA5DN-SS-0.0-0.5 Soil	6292028
DUP-02-SA5DN-QC-051811 Soil	6292029

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC Data Package Group

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

COPY TO

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-054-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292014
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX084-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292014
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX084-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	37.8	B	0.0938	5.50	1
11031	1234678-HpCDF	67562-39-4	2.59	JB	0.0263	5.50	1
11031	1234789-HpCDF	55673-89-7	0.190	JBQ	0.0293	5.50	1
11031	123478-HxCDD	39227-28-6	0.292	JB	0.0461	5.50	1
11031	123478-HxCDF	70648-26-9	0.859	JB	0.0494	5.50	1
11031	123678-HxCDD	57653-85-7	1.10	JB	0.0459	5.50	1
11031	123678-HxCDF	57117-44-9	0.244	JB	0.0436	5.50	1
11031	123789-HxCDD	19408-74-3	0.871	JB	0.0447	5.50	1
11031	123789-HxCDF	72918-21-9	0.556	JB	0.0377	5.50	1
11031	12378-PeCDD	40321-76-4	0.194	JBQ	0.0384	5.50	1
11031	12378-PeCDF	57117-41-6	0.184	JBQ	0.0381	5.50	1
11031	234678-HxCDF	60851-34-5	0.242	JB	0.0368	5.50	1
11031	23478-PeCDF	57117-31-4	0.345	JBQ	0.0364	5.50	1
11031	2378-TCDD	1746-01-6	0.0238	U	0.0238	1.10	1
11031	2378-TCDF	51207-31-9	0.276	JBQ	0.0667	1.10	1
11031	OCDD	3268-87-9	630	B	0.106	11.0	1
11031	OCDF	39001-02-0	7.93	JB	0.0320	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	94	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292014
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX084-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292014
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD054 SDG#: DX084-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 09:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

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Analysis Report

Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292015
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX084-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292015
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX084-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	25.0	B	0.117	5.69	1
11031	1234678-HpCDF	67562-39-4	4.01	JB	0.0564	5.69	1
11031	1234789-HpCDF	55673-89-7	0.278	JBQ	0.0571	5.69	1
11031	123478-HxCDD	39227-28-6	0.183	JBQ	0.103	5.69	1
11031	123478-HxCDF	70648-26-9	0.874	JB	0.0771	5.69	1
11031	123678-HxCDD	57653-85-7	1.46	JB	0.0997	5.69	1
11031	123678-HxCDF	57117-44-9	0.900	JB	0.0679	5.69	1
11031	123789-HxCDD	19408-74-3	0.733	JBQ	0.102	5.69	1
11031	123789-HxCDF	72918-21-9	0.400	JBQ	0.0634	5.69	1
11031	12378-PeCDD	40321-76-4	0.240	JBQ	0.0662	5.69	1
11031	12378-PeCDF	57117-41-6	0.390	JBQ	0.0615	5.69	1
11031	234678-HxCDF	60851-34-5	0.438	JB	0.0556	5.69	1
11031	23478-PeCDF	57117-31-4	0.806	JB	0.0618	5.69	1
11031	2378-TCDD	1746-01-6	0.0505	U	0.0505	1.14	1
11031	2378-TCDF	51207-31-9	0.172	U	0.172	1.14	1
11031	OCDD	3268-87-9	271	B	0.127	11.4	1
11031	OCDF	39001-02-0	5.20	JB	0.0646	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	89	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292015
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX084-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292015
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD055 SDG#: DX084-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 10:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292016
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX084-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292016
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX084-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	4.70	JB	0.0419	5.62	1
11031	1234678-HpCDF	67562-39-4	0.856	JB	0.0220	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0639	JBQ	0.0247	5.62	1
11031	123478-HxCDD	39227-28-6	0.0897	JB	0.0398	5.62	1
11031	123478-HxCDF	70648-26-9	0.180	JBQ	0.0280	5.62	1
11031	123678-HxCDD	57653-85-7	0.266	JB	0.0407	5.62	1
11031	123678-HxCDF	57117-44-9	0.127	JB	0.0278	5.62	1
11031	123789-HxCDD	19408-74-3	0.279	JBQ	0.0389	5.62	1
11031	123789-HxCDF	72918-21-9	0.207	JB	0.0310	5.62	1
11031	12378-PeCDD	40321-76-4	0.0747	JBQ	0.0294	5.62	1
11031	12378-PeCDF	57117-41-6	0.0951	JBQ	0.0259	5.62	1
11031	234678-HxCDF	60851-34-5	0.136	JB	0.0258	5.62	1
11031	23478-PeCDF	57117-31-4	0.153	JB	0.0246	5.62	1
11031	2378-TCDD	1746-01-6	0.0269	JQ	0.0252	1.12	1
11031	2378-TCDF	51207-31-9	0.0506	JBQ	0.0468	1.12	1
11031	OCDD	3268-87-9	39.9	B	0.0486	11.2	1
11031	OCDF	39001-02-0	1.62	JB	0.0341	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292016
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX084-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292016
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD056 SDG#: DX084-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 11:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292017
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX084-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292017
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX084-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	28.9	B	0.0717	5.66	1
11031	1234678-HpCDF	67562-39-4	4.06	JB	0.0278	5.66	1
11031	1234789-HpCDF	55673-89-7	0.351	JB	0.0358	5.66	1
11031	123478-HxCDD	39227-28-6	0.324	JB	0.0530	5.66	1
11031	123478-HxCDF	70648-26-9	1.09	JB	0.0541	5.66	1
11031	123678-HxCDD	57653-85-7	1.36	JB	0.0527	5.66	1
11031	123678-HxCDF	57117-44-9	0.345	JBQ	0.0465	5.66	1
11031	123789-HxCDD	19408-74-3	1.26	JB	0.0528	5.66	1
11031	123789-HxCDF	72918-21-9	1.01	JB	0.0436	5.66	1
11031	12378-PeCDD	40321-76-4	0.301	JB	0.0433	5.66	1
11031	12378-PeCDF	57117-41-6	0.390	JB	0.0424	5.66	1
11031	234678-HxCDF	60851-34-5	0.429	JB	0.0374	5.66	1
11031	23478-PeCDF	57117-31-4	0.819	JB	0.0408	5.66	1
11031	2378-TCDD	1746-01-6	0.0577	JQ	0.0276	1.13	1
11031	2378-TCDF	51207-31-9	0.526	JBQ	0.0885	1.13	1
11031	OCDD	3268-87-9	432	B	0.0695	11.3	1
11031	OCDF	39001-02-0	11.7	B	0.0369	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292017
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX084-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292017
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD058 SDG#: DX084-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 12:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292018
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX084-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292018
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX084-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	4.69	JB	0.0464	5.57	1
11031	1234678-HpCDF	67562-39-4	0.731	JB	0.0392	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0345	JBQ	0.0244	5.57	1
11031	123478-HxCDD	39227-28-6	0.0666	JB	0.0373	5.57	1
11031	123478-HxCDF	70648-26-9	0.305	JBQ	0.0705	5.57	1
11031	123678-HxCDD	57653-85-7	0.353	JB	0.0405	5.57	1
11031	123678-HxCDF	57117-44-9	0.155	JBQ	0.0644	5.57	1
11031	123789-HxCDD	19408-74-3	0.385	JB	0.0350	5.57	1
11031	123789-HxCDF	72918-21-9	0.499	JBQ	0.0265	5.57	1
11031	12378-PeCDD	40321-76-4	0.0319	U	0.0319	5.57	1
11031	12378-PeCDF	57117-41-6	0.117	JBQ	0.0221	5.57	1
11031	234678-HxCDF	60851-34-5	0.118	JBQ	0.0240	5.57	1
11031	23478-PeCDF	57117-31-4	0.189	JB	0.0218	5.57	1
11031	2378-TCDD	1746-01-6	0.0265	U	0.0265	1.11	1
11031	2378-TCDF	51207-31-9	0.0345	U	0.0345	1.11	1
11031	OCDD	3268-87-9	55.5	B	0.0452	11.1	1
11031	OCDF	39001-02-0	2.48	JB	0.0391	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	29	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292018
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX084-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292018
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 14:08

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD059 SDG#: DX084-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 13:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292019
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX084-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292019
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX084-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	501	B	0.259	5.77	1
11031	1234678-HpCDF	67562-39-4	38.0	B	0.106	5.77	1
11031	1234789-HpCDF	55673-89-7	2.93	JB	0.0800	5.77	1
11031	123478-HxCDD	39227-28-6	7.08	B	0.0904	5.77	1
11031	123478-HxCDF	70648-26-9	3.60	JB	0.124	5.77	1
11031	123678-HxCDD	57653-85-7	19.3	B	0.0965	5.77	1
11031	123678-HxCDF	57117-44-9	2.17	JB	0.111	5.77	1
11031	123789-HxCDD	19408-74-3	15.8	B	0.0858	5.77	1
11031	123789-HxCDF	72918-21-9	1.68	JB	0.0674	5.77	1
11031	12378-PeCDD	40321-76-4	4.20	JB	0.0793	5.77	1
11031	12378-PeCDF	57117-41-6	1.07	JB	0.0918	5.77	1
11031	234678-HxCDF	60851-34-5	2.23	JB	0.0576	5.77	1
11031	23478-PeCDF	57117-31-4	2.24	JB	0.0824	5.77	1
11031	2378-TCDD	1746-01-6	1.48		0.0438	1.15	1
11031	2378-TCDF	51207-31-9	1.33	B	0.167	1.15	1
11031	OCDD	3268-87-9	7,850	EB	0.293	11.5	1
11031	OCDF	39001-02-0	124	B	0.0600	11.5	1
11650	2378-TCDF-Conf	51207-31-9	0.865	JB	0.0476	1.15	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-2378-TCDF-Conf	73	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	89	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292019
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX084-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292019
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:28

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD064 SDG#: DX084-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 14:27	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11144001	06/06/2011 19:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292020
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX084-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292020
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX084-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.375	JB	0.0220	1.13	1
11031	12378-PeCDD	40321-76-4	3.09	JB	0.0789	5.64	1
11031	123478-HxCDD	39227-28-6	5.19	JB	0.0676	5.64	1
11031	123678-HxCDD	57653-85-7	15.0	B	0.0705	5.64	1
11031	123789-HxCDD	19408-74-3	11.5	B	0.0679	5.64	1
11031	1234678-HpCDD	35822-46-9	364	B	0.198	5.64	1
11031	OCDD	3268-87-9	5,070	EB	0.172	11.3	1
11031	2378-TCDF	51207-31-9	0.623	JBQ	0.0967	1.13	1
11031	12378-PeCDF	57117-41-6	0.603	JB	0.0426	5.64	1
11031	23478-PeCDF	57117-31-4	1.04	JB	0.0419	5.64	1
11031	123478-HxCDF	70648-26-9	2.49	JB	0.0628	5.64	1
11031	123678-HxCDF	57117-44-9	2.78	JB	0.0551	5.64	1
11031	123789-HxCDF	72918-21-9	2.03	JB	0.0631	5.64	1
11031	234678-HxCDF	60851-34-5	3.11	JB	0.0539	5.64	1
11031	1234678-HpCDF	67562-39-4	44.8	B	0.0556	5.64	1
11031	1234789-HpCDF	55673-89-7	4.05	JB	0.0682	5.64	1
11031	OCDF	39001-02-0	106	B	0.0367	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-065-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292020
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX084-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292020
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD065 SDG#: DX084-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/04/2011 20:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292021
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD086 SDG#: DX084-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292021
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD086 SDG#: DX084-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	188	B	0.153	5.74	1
11031	1234678-HpCDF	67562-39-4	10.2	B	0.0389	5.74	1
11031	1234789-HpCDF	55673-89-7	0.639	JB	0.0557	5.74	1
11031	123478-HxCDD	39227-28-6	4.10	JB	0.0642	5.74	1
11031	123478-HxCDF	70648-26-9	0.773	JB	0.0491	5.74	1
11031	123678-HxCDD	57653-85-7	7.80	B	0.0674	5.74	1
11031	123678-HxCDF	57117-44-9	0.465	JB	0.0407	5.74	1
11031	123789-HxCDD	19408-74-3	8.88	B	0.0620	5.74	1
11031	123789-HxCDF	72918-21-9	0.982	JB	0.0411	5.74	1
11031	12378-PeCDD	40321-76-4	2.31	JBQ	0.0583	5.74	1
11031	12378-PeCDF	57117-41-6	0.338	JB	0.0228	5.74	1
11031	234678-HxCDF	60851-34-5	0.504	JBQ	0.0355	5.74	1
11031	23478-PeCDF	57117-31-4	0.359	JB	0.0247	5.74	1
11031	2378-TCDD	1746-01-6	0.364	JQ	0.0333	1.15	1
11031	2378-TCDF	51207-31-9	0.114	JBQ	0.0430	1.15	1
11031	OCDD	3268-87-9	3,310	B	0.165	11.5	1
11031	OCDF	39001-02-0	32.6	B	0.0499	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	81	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292021
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD086 SDG#: DX084-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-086-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292021
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:50

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD086 SDG#: DX084-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 16:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292022
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX084-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292022
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX084-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.486	JBQ	0.0204	1.12	1
11031	12378-PeCDD	40321-76-4	3.56	JB	0.0632	5.60	1
11031	123478-HxCDD	39227-28-6	5.09	JB	0.0567	5.60	1
11031	123678-HxCDD	57653-85-7	11.9	B	0.0593	5.60	1
11031	123789-HxCDD	19408-74-3	11.1	B	0.0557	5.60	1
11031	1234678-HpCDD	35822-46-9	296	B	0.186	5.60	1
11031	OCDD	3268-87-9	5,400	EB	0.212	11.2	1
11031	2378-TCDF	51207-31-9	0.404	JB	0.0739	1.12	1
11031	12378-PeCDF	57117-41-6	0.421	JB	0.0343	5.60	1
11031	23478-PeCDF	57117-31-4	0.967	JB	0.0341	5.60	1
11031	123478-HxCDF	70648-26-9	1.51	JB	0.0550	5.60	1
11031	123678-HxCDF	57117-44-9	0.855	JB	0.0523	5.60	1
11031	123789-HxCDF	72918-21-9	1.32	JB	0.0577	5.60	1
11031	234678-HxCDF	60851-34-5	0.966	JB	0.0513	5.60	1
11031	1234678-HpCDF	67562-39-4	21.3	B	0.0483	5.60	1
11031	1234789-HpCDF	55673-89-7	1.28	JB	0.0606	5.60	1
11031	OCDF	39001-02-0	71.3	B	0.0483	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292022
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX084-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-087-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292022
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:30

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD087 SDG#: DX084-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/04/2011 21:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292023
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX084-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292023
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX084-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.131	JB	0.0175	1.11	1
11031	12378-PeCDD	40321-76-4	1.29	JB	0.0529	5.56	1
11031	123478-HxCDD	39227-28-6	1.85	JB	0.0510	5.56	1
11031	123678-HxCDD	57653-85-7	4.27	JB	0.0533	5.56	1
11031	123789-HxCDD	19408-74-3	5.22	JB	0.0519	5.56	1
11031	1234678-HpCDD	35822-46-9	91.2	B	0.122	5.56	1
11031	OCDD	3268-87-9	1,730	B	0.144	11.1	1
11031	2378-TCDF	51207-31-9	0.0919	JBQ	0.0226	1.11	1
11031	12378-PeCDF	57117-41-6	0.369	JB	0.0128	5.56	1
11031	23478-PeCDF	57117-31-4	0.172	JBQ	0.0145	5.56	1
11031	123478-HxCDF	70648-26-9	0.297	JB	0.0351	5.56	1
11031	123678-HxCDF	57117-44-9	0.231	JB	0.0289	5.56	1
11031	123789-HxCDF	72918-21-9	1.58	JB	0.0441	5.56	1
11031	234678-HxCDF	60851-34-5	0.240	JB	0.0328	5.56	1
11031	1234678-HpCDF	67562-39-4	4.83	JB	0.0197	5.56	1
11031	1234789-HpCDF	55673-89-7	0.261	JB	0.0364	5.56	1
11031	OCDF	39001-02-0	15.5	B	0.0548	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292023
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX084-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292023
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:15

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD088 SDG#: DX084-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/04/2011 22:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292024
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292024
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	864 B	0.284	5.78	1
11031	1234678-HpCDF	67562-39-4	52.7 B	0.0555	5.78	1
11031	1234789-HpCDF	55673-89-7	2.17 JB	0.0805	5.78	1
11031	123478-HxCDD	39227-28-6	16.9 B	0.101	5.78	1
11031	123478-HxCDF	70648-26-9	2.47 JB	0.0919	5.78	1
11031	123678-HxCDD	57653-85-7	33.8 B	0.104	5.78	1
11031	123678-HxCDF	57117-44-9	1.72 JB	0.0686	5.78	1
11031	123789-HxCDD	19408-74-3	36.3 B	0.0974	5.78	1
11031	123789-HxCDF	72918-21-9	1.38 JB	0.0650	5.78	1
11031	12378-PeCDD	40321-76-4	9.62 B	0.0792	5.78	1
11031	12378-PeCDF	57117-41-6	0.521 JBQ	0.0213	5.78	1
11031	234678-HxCDF	60851-34-5	2.05 JB	0.0471	5.78	1
11031	23478-PeCDF	57117-31-4	0.623 JB	0.0229	5.78	1
11031	2378-TCDD	1746-01-6	1.08 J	0.0385	1.16	1
11031	2378-TCDF	51207-31-9	0.117 JBQ	0.0425	1.16	1
11031	OCDD	3268-87-9	16,400 EB	0.273	11.6	1
11031	OCDF	39001-02-0	167 B	0.0754	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	68	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292024
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292024
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 22:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292025
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292025
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	2,400 EB	0.363	5.68	1
11031	1234678-HpCDF	67562-39-4	229 B	0.0936	5.68	1
11031	1234789-HpCDF	55673-89-7	124 B	0.114	5.68	1
11031	123478-HxCDD	39227-28-6	160 B	0.137	5.68	1
11031	123478-HxCDF	70648-26-9	129 B	0.124	5.68	1
11031	123678-HxCDD	57653-85-7	213 B	0.149	5.68	1
11031	123678-HxCDF	57117-44-9	121 B	0.102	5.68	1
11031	123789-HxCDD	19408-74-3	212 B	0.144	5.68	1
11031	123789-HxCDF	72918-21-9	122 B	0.107	5.68	1
11031	12378-PeCDD	40321-76-4	142 B	0.110	5.68	1
11031	12378-PeCDF	57117-41-6	119 B	0.0406	5.68	1
11031	234678-HxCDF	60851-34-5	124 B	0.0881	5.68	1
11031	23478-PeCDF	57117-31-4	121 B	0.0407	5.68	1
11031	2378-TCDD	1746-01-6	25.3	0.0616	1.14	1
11031	2378-TCDF	51207-31-9	24.9 B	0.0697	1.14	1
11031	OCDD	3268-87-9	52,000 EB	0.432	11.4	1
11031	OCDF	39001-02-0	717 B	0.0763	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292025
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	85	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292025
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/28/2011 23:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292026
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292026
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	1,190 B	0.299	5.72	1
11031	1234678-HpCDF	67562-39-4	173 B	0.0758	5.72	1
11031	1234789-HpCDF	55673-89-7	122 B	0.105	5.72	1
11031	123478-HxCDD	39227-28-6	140 B	0.110	5.72	1
11031	123478-HxCDF	70648-26-9	125 B	0.105	5.72	1
11031	123678-HxCDD	57653-85-7	160 B	0.112	5.72	1
11031	123678-HxCDF	57117-44-9	123 B	0.0910	5.72	1
11031	123789-HxCDD	19408-74-3	161 B	0.107	5.72	1
11031	123789-HxCDF	72918-21-9	123 B	0.101	5.72	1
11031	12378-PeCDD	40321-76-4	129 B	0.111	5.72	1
11031	12378-PeCDF	57117-41-6	122 B	0.0437	5.72	1
11031	234678-HxCDF	60851-34-5	123 B	0.0907	5.72	1
11031	23478-PeCDF	57117-31-4	121 B	0.0418	5.72	1
11031	2378-TCDD	1746-01-6	24.4	0.0669	1.14	1
11031	2378-TCDF	51207-31-9	25.0 B	0.0664	1.14	1
11031	OCDD	3268-87-9	21,700 EB	0.318	11.4	1
11031	OCDF	39001-02-0	454 B	0.0705	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292026
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292026
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:05

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD089 SDG#: DX084-11MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/29/2011 00:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292027
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX084-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292027
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX084-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.626 JB	0.0323	1.23	1
11031	12378-PeCDD	40321-76-4	8.87 B	0.185	6.16	1
11031	123478-HxCDD	39227-28-6	33.7 B	0.430	6.16	1
11031	123678-HxCDD	57653-85-7	222 B	0.450	6.16	1
11031	123789-HxCDD	19408-74-3	80.4 B	0.429	6.16	1
11031	1234678-HpCDD	35822-46-9	10,500 EB	0.784	6.16	1
11031	OCDD	3268-87-9	124,000 EB	0.637	12.3	1
11031	2378-TCDF	51207-31-9	0.384 JB	0.0745	1.23	1
11031	12378-PeCDF	57117-41-6	0.938 JB	0.0551	6.16	1
11031	23478-PeCDF	57117-31-4	2.17 JB	0.0512	6.16	1
11031	123478-HxCDF	70648-26-9	10.6 B	0.184	6.16	1
11031	123678-HxCDF	57117-44-9	13.3 B	0.173	6.16	1
11031	123789-HxCDF	72918-21-9	3.68 JB	0.184	6.16	1
11031	234678-HxCDF	60851-34-5	17.9 B	0.169	6.16	1
11031	1234678-HpCDF	67562-39-4	642 B	0.191	6.16	1
11031	1234789-HpCDF	55673-89-7	48.1 B	0.230	6.16	1
11031	OCDF	39001-02-0	2,350 B	0.139	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292027
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX084-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-090-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292027
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 08:40

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD090 SDG#: DX084-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/04/2011 23:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401A	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292028
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD202 SDG#: DX084-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292028
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD202 SDG#: DX084-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0623	JB	0.0566	1.12	1
11031	12378-PeCDD	40321-76-4	0.203	JB	0.0660	5.60	1
11031	123478-HxCDD	39227-28-6	0.334	JB	0.0802	5.60	1
11031	123678-HxCDD	57653-85-7	1.87	JB	0.0879	5.60	1
11031	123789-HxCDD	19408-74-3	1.01	JBQ	0.0810	5.60	1
11031	1234678-HpCDD	35822-46-9	48.7	B	0.161	5.60	1
11031	OCDD	3268-87-9	956	B	0.235	11.2	1
11031	2378-TCDF	51207-31-9	0.191	JB	0.0830	1.12	1
11031	12378-PeCDF	57117-41-6	0.0534	U	0.0534	5.60	1
11031	23478-PeCDF	57117-31-4	0.0498	U	0.0498	5.60	1
11031	123478-HxCDF	70648-26-9	0.620	JB	0.0559	5.60	1
11031	123678-HxCDF	57117-44-9	0.372	JB	0.0533	5.60	1
11031	123789-HxCDF	72918-21-9	0.734	JB	0.0562	5.60	1
11031	234678-HxCDF	60851-34-5	0.325	JB	0.0514	5.60	1
11031	1234678-HpCDF	67562-39-4	3.91	JB	0.0530	5.60	1
11031	1234789-HpCDF	55673-89-7	0.330	JB	0.0647	5.60	1
11031	OCDF	39001-02-0	14.3	B	0.0942	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292028
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD202 SDG#: DX084-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SS-0.0-0.5

LLI Sample # SW 6292028
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 13:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD202 SDG#: DX084-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/07/2011 09:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162401B	05/27/2011 19:40	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292029
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP02 SDG#: DX084-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292029
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP02 SDG#: DX084-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.967 JB	0.0282	1.14	1
11031	12378-PeCDD	40321-76-4	9.81 B	0.0499	5.71	1
11031	123478-HxCDD	39227-28-6	16.8 B	0.0595	5.71	1
11031	123678-HxCDD	57653-85-7	39.2 B	0.0627	5.71	1
11031	123789-HxCDD	19408-74-3	37.4 B	0.0596	5.71	1
11031	1234678-HpCDD	35822-46-9	964 B	0.207	5.71	1
11031	OCDD	3268-87-9	21,100 EB	0.240	11.4	1
11031	2378-TCDF	51207-31-9	0.109 JBQ	0.0265	1.14	1
11031	12378-PeCDF	57117-41-6	0.651 JB	0.0161	5.71	1
11031	23478-PeCDF	57117-31-4	0.644 JB	0.0169	5.71	1
11031	123478-HxCDF	70648-26-9	2.87 JB	0.0402	5.71	1
11031	123678-HxCDF	57117-44-9	1.37 JB	0.0321	5.71	1
11031	123789-HxCDF	72918-21-9	1.27 JB	0.0395	5.71	1
11031	234678-HxCDF	60851-34-5	1.87 JB	0.0314	5.71	1
11031	1234678-HpCDF	67562-39-4	55.8 B	0.0320	5.71	1
11031	1234789-HpCDF	55673-89-7	2.32 JB	0.0589	5.71	1
11031	OCDF	39001-02-0	200 B	0.0494	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292029
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP02 SDG#: DX084-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-123789-HxCDF		66	29 - 147			
13C12-1234678-HpCDF		82	28 - 143			
13C12-1234789-HpCDF		53	26 - 138			
13C12-OCDF		44	17 - 157			
13C12-1278-TCDD (CRS)		88	35 - 197			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-02-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DN-QC-051811

LLI Sample # SW 6292029
LLI Group # 1247623
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:10

Submitted: 05/19/2011 09:20
Reported: 06/12/2011 18:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP02 SDG#: DX084-14FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/06/2011 09:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247623
Reported: 06/12/11 at 06:25 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11147162401B	Sample number(s): 6292014-6292018,6292028								
Moisture Content by 160.3					100		80-120		
Batch number: 11152162401A	Sample number(s): 6292019-6292027								
Moisture Content by 160.3					100		80-120		
Batch number: 11152162401B	Sample number(s): 6292029								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11144001	Sample number(s): 6292014-6292019,6292021,6292024-6292026								
2378-TCDF-Conf	0.0180 J	0.0155	1.00	ng/kg					
2378-TCDD	0.0293 U	0.0293	1.00	ng/kg	98		67-158		
2378-TCDF	0.0330 J	0.0296	1.00	ng/kg	111		75-158		
12378-PeCDD	0.0618 J	0.0274	5.00	ng/kg	101		70-142		
12378-PeCDF	0.0544 J	0.0163	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0554 J	0.0173	5.00	ng/kg	104		68-160		
123478-HxCDD	0.0371 J	0.0203	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0613 J	0.0206	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0642 J	0.0185	5.00	ng/kg	102		64-162		
123478-HxCDF	0.102 J	0.0254	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0849 J	0.0203	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0750 J	0.0171	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0778 J	0.0136	5.00	ng/kg	105		70-156		
1234678-HpCDD	0.229 J	0.0287	5.00	ng/kg	101		70-140		
1234678-HpCDF	0.170 J	0.0158	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.109 J	0.0196	5.00	ng/kg	104		78-138		
OCDD	0.871 J	0.0253	10.0	ng/kg	102		78-144		
OCDF	0.386 J	0.0410	10.0	ng/kg	104		63-170		
Batch number: 11151003	Sample number(s): 6292020,6292022-6292023,6292027-6292029								
2378-TCDD	0.0218 J	0.0171	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0560 J	0.0171	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0479 J	0.0145	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0457 J	0.0149	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0778 J	0.0148	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.200 J	0.0183	5.00	ng/kg	101		70-140		
OCDD	0.455 J	0.0201	10.0	ng/kg	100		78-144		
2378-TCDF	0.0191 J	0.0160	1.00	ng/kg	112		75-158		
12378-PeCDF	0.0666 J	0.00750	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0691 J	0.00760	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0539 J	0.0111	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0472 J	0.00920	5.00	ng/kg	98		84-130		
123789-HxCDF	0.111 J	0.0127	5.00	ng/kg	100		78-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247623
Reported: 06/12/11 at 06:25 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
234678-HxCDF	0.0660	J	0.0100	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.109	J	0.00700	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0942	J	0.0121	5.00	ng/kg	100		78-138		
OCDF	0.232	J	0.0263	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11147162401B	Sample number(s): 6292014-6292018,6292028 BKG: P292004								
Moisture Content by 160.3						11.1	12.2	10	20
Batch number: 11152162401A	Sample number(s): 6292019-6292027 BKG: P291999								
Moisture Content by 160.3						13.8	15.1	9	20
Batch number: 11152162401B	Sample number(s): 6292029 BKG: P292005								
Moisture Content by 160.3						14.1	13.3	6	20
Batch number: 11144001	Sample number(s): 6292014-6292019,6292021,6292024-6292026 UNSPK: 6292024								
2378-TCDD	107	102	67-158	3	25				
2378-TCDF	109	109	75-158	1	25				
12378-PeCDD	117	104	70-142	10	25				
12378-PeCDF	105	106	80-134	2	25				
23478-PeCDF	106	105	68-160	0	25				
123478-HxCDD	126	108	70-164	13	25				
123678-HxCDD	158*	110	76-134	28*	25				
123789-HxCDD	155	109	64-162	28*	25				
123478-HxCDF	111	107	72-134	3	25				
123678-HxCDF	105	106	84-130	1	25				
123789-HxCDF	106	106	78-130	1	25				
234678-HxCDF	107	106	70-156	0	25				
1234678-HpCDD	1352 (2)	286 (2)	70-140	67*	25				
1234678-HpCDF	155*	105	82-122	28*	25				
1234789-HpCDF	107	105	78-138	2	25				
OCDD	15695 (2)	2327 (2)	78-144	82*	25				
OCDF	242*	125	63-170	45*	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11144001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6292014	77	82	63	70	83	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247623
Reported: 06/12/11 at 06:25 PM

Surrogate Quality Control

6292015	72	77	60	65	79	81
6292016	76	83	75	75	77	78
6292017	74	84	54	62	73	74
6292018	72	80	27	29	77	78
6292019	73	77	40	43	77	80
6292021	79	85	60	71	81	80
6292024	67	72	36	48	68	58
6292025	71	78	62	72	78	79
6292026	72	81	69	78	79	77
Blank	67	67	39	47	69	65
MS	71	78	62	72	78	79
MSD	72	81	69	78	79	77
OPR	62	69	51	62	71	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6292014	81	88	94	84	80	78
6292015	73	84	89	76	76	73
6292016	76	80	81	80	78	74
6292017	77	74	74	81	85	72
6292018	40	79	80	77	79	66
6292019	53	84	89	76	75	69
6292021	87	77	81	90	88	77
6292024	73	59	58	79	75	68
6292025	83	81	85	78	78	76
6292026	87	80	83	80	82	75
Blank	71	71	77	81	73	67
MS	83	81	85	78	78	76
MSD	87	80	83	80	82	75
OPR	88	75	82	78	76	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6292014	80	80	86	94	81	83
6292015	73	74	82	86	75	79
6292016	72	74	76	80	78	83
6292017	72	73	77	84	76	88
6292018	64	74	78	83	75	82
6292019	66	74	81	92	76	79
6292021	77	83	87	96	81	96
6292024	69	72	79	90	67	85
6292025	74	76	83	96	72	83
6292026	76	77	84	94	73	87
Blank	68	75	83	97	62	75
MS	74	76	83	96	72	83
MSD	76	77	84	94	73	87
OPR	73	76	86	100	59	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247623
Reported: 06/12/11 at 06:25 PM

Surrogate Quality Control

6292014	
6292015	
6292016	
6292017	
6292018	
6292019	73
6292021	
6292024	
6292025	
6292026	
Blank	63
MS	
MSD	
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11151003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6292020	74	77	67	72	76	75
6292022	80	81	75	79	79	79
6292023	66	67	62	74	64	56
6292027	74	78	70	72	74	74
6292028	80	77	73	74	77	81
6292029	72	71	62	74	70	66
Blank	71	72	69	78	75	68
OPR	60	59	53	64	62	54
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6292020	76	77	75	81	76	74
6292022	80	80	78	87	80	78
6292023	84	56	51	77	72	68
6292027	75	77	76	81	80	74
6292028	67	66	54	90	79	78
6292029	82	53	44	88	74	73
Blank	95	68	65	89	78	82
OPR	82	54	52	79	66	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6292020	74	75	79	80	74	79
6292022	77	79	83	82	78	86
6292023	68	69	72	70	64	78
6292027	72	74	81	78	75	79
6292028	74	78	69	57	78	78
6292029	72	74	69	61	71	80
Blank	81	81	83	82	43	79
OPR	67	70	72	72	54	66

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247623
Reported: 06/12/11 at 06:25 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1247623 6292014-29

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-054-SA5DN-SS-0.0-0.5	05.18.11	1350	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-054-SA5DN-SS-0.0-0.5	05.18.11	1350	SOIL	NONE	1-SS sleeve			X	X																	
SL-055-SA5DN-SS-0.0-0.5	05.18.11	1430	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-055-SA5DN-SS-0.0-0.5	05.18.11	1430	SOIL	NONE	1-SS sleeve			X	X																	
SL-056-SA5DN-SS-0.0-0.5	05.18.11	1453	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X										
SL-056-SA5DN-SS-0.0-0.5	05.18.11	1453	SOIL	NONE	1-SS sleeve			X	X																	
SL-058-SA5DN-SS-0.0-0.5	05.18.11	1515	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-058-SA5DN-SS-0.0-0.5	05.18.11	1515	SOIL	NONE	1-SS sleeve			X	X																	
SL-059-SA5DN-SS-0.0-0.5	05.18.11	1408	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-059-SA5DN-SS-0.0-0.5	05.18.11	1408	SOIL	NONE	1-SS sleeve			X	X																	
SL-064-SA5DN-SS-0.0-0.5	05.18.11	1028	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-064-SA5DN-SS-0.0-0.5	05.18.11	1028	SOIL	NONE	1-SS sleeve			X	X																	
SL-065-SA5DN-SS-0.0-0.5	05.18.11	1053	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-065-SA5DN-SS-0.0-0.5	05.18.11	1053	SOIL	NONE	1-SS sleeve			X	X																	
SL-086-SA5DN-SS-0.0-0.5	05.18.11	0950	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-086-SA5DN-SS-0.0-0.5	05.18.11	0950	SOIL	NONE	1-SS sleeve			X	X																	
SL-087-SA5DN-SS-0.0-0.5	05.18.11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-087-SA5DN-SS-0.0-0.5	05.18.11	0930	SOIL	NONE	1-SS sleeve			X	X																	
SL-088-SA5DN-SS-0.0-0.5	05.18.11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X					X					
SL-088-SA5DN-SS-0.0-0.5	05.18.11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-089-SA5DN-SS-0.0-0.5MS	05.18.11	0905	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-089-SA5DN-SS-0.0-0.5MS	05.18.11	0905	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-090-SA5DN-SS-0.0-0.5	05.18.11	0840	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-090-SA5DN-SS-0.0-0.5	05.18.11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-202-SA5DN-SS-0.0-0.5	05.18.11	1310	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-202-SA5DN-SS-0.0-0.5	05.18.11	1310	SOIL	NONE	1-SS sleeve			X	X																	
DUP-02-SA5DN-QC-051811	05.18.11	0910	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP-02-SA5DN-QC-051811	05.18.11	0910	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/18/2011 / 1700	5/19/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1441 7836; 8695 1441 7847 8695 1441 7858; 8695 1441 7869	

13013 1247623 Q292014-29

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																
SAMPLE NUMBER 3 NA 5/27/11	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	NONE	5-1 liter ambers		X			X	X		X			
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	NaOH	1-500 mL glass							X				
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	None	1-250 mL glass				X							
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	HCl	2-40 mL vial										X	
EB02-SA5DN-SS-051911	05.18.11	1200	WATER	NONE	4-40 mL vial			X						X		
Relinquished by: (*Signature*)			Received for Laboratory by: (*Signature*) 5/19/11 920													Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)			Airbill No(s) 8695 1441 7836; 8695 1441 7847 8695 1441 7858; 8695 1441 7869													NOTE: Date on bottles should be 5/18/2011

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/19/2011
Group Number: 1247624
SDG: DE155
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-069-SA5DN-SB-4.0-5.0 Soil	6292030
SL-069-SA5DN-SB-9.0-10.0 Soil	6292031
SL-070-SA5DN-SB-4.0-5.0 Soil	6292032
SL-070-SA5DN-SB-9.0-10.0 Soil	6292033
SL-074-SA5DN-SB-4.0-5.0 Soil	6292034
SL-074-SA5DN-SB-9.0-10.0 Soil	6292035
SL-076-SA5DN-SB-4.0-5.0 Soil	6292036
SL-076-SA5DN-SB-4.0-5.0MS Soil	6292037
SL-076-SA5DN-SB-4.0-5.0MSD Soil	6292038
SL-076-SA5DN-SB-4.0-5.0DUP Soil	6292039
SL-076-SA5DN-SB-9.0-10.0 Soil	6292040
DUP-03-SA5DN-QC-051811 Soil	6292041

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292030
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0694 SDG#: DE155-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9		6.5	7.7		0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.83
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.83
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.83
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.83
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.9		0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.83
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.83
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.83
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.9		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.9		0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.83
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.83
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.83
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.83
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.9		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.83
06192	Methylene Chloride	75-09-2	1.2	J	0.23	3.9		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.83

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Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292030
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0694 SDG#: DE155-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.83
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.9		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.83
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.83
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		19.84
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292030
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0694 SDG#: DE155-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	84	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	5.2		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	8.5		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	6.6		0.39	1.9		1

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Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292030
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0694 SDG#: DE155-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	1.7	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.80	J	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	7.6		0.77	1.9		1
10138	Pyrene	129-00-0	4.2		0.77	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	31,600		5.68	22.6		1
07914	Boron	7440-42-8	1.00	U	1.00	5.64		1
01650	Calcium	7440-70-2	7,160		6.92	22.6		1
01654	Iron	7439-89-6	30,800		10.6	45.2		2
01656	Lithium	7439-93-2	28.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,700		2.87	11.3		1
06958	Manganese	7439-96-5	265		0.0881	0.564		1
10145	Phosphorus	7723-14-0	154		0.632	11.3		1
01662	Potassium	7440-09-7	2,870		20.3	56.4		1
01667	Sodium	7440-23-5	541		42.1	113		1
07968	Strontium	7440-24-6	54.9		0.0700	0.564		1
06969	Tin	7440-31-5	3.15	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,190		0.429	1.13		1
10146	Zirconium	7440-67-7	6.18		0.948	5.64		1

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Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292030
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0694 SDG#: DE155-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.350	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.66	0.0894	0.447		2
06126	Barium	7440-39-3	136	0.302	1.12		5
06127	Beryllium	7440-41-7	1.37	0.0179	0.112		2
06128	Cadmium	7440-43-9	0.232	0.0447	0.112		2
06131	Chromium	7440-47-3	45.5	0.134	0.447		2
06132	Cobalt	7440-48-4	13.0	0.0224	0.112		2
06133	Copper	7440-50-8	19.6	0.0738	0.447		2
06135	Lead	7439-92-1	14.2	0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.562	0.0559	0.112		2
06139	Nickel	7440-02-0	32.2	0.112	0.447		2
06141	Selenium	7782-49-2	0.152 J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0750 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.330	0.0342	0.114		2
06148	Vanadium	7440-62-2	81.8	0.0246	0.112		2
06149	Zinc	7440-66-6	84.8	0.626	3.35		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.1	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.46	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292030
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0694 SDG#: DE155-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 16:39	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 17:41	Jason M Long	19.84
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024463	05/20/2011 11:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024464	05/20/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024463	05/20/2011 11:13	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 10:44	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 12:12	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 19:24	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:12	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 22:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	06/01/2011 23:16	David K Beck	5
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292030
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0694 SDG#: DE155-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 12:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 03:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 17:37	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292031
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0699 SDG#: DE155-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	44	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292031
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0699 SDG#: DE155-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.9		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.99	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.4		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	3.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.77	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	3.6		0.76	1.9		1
10138	Pyrene	129-00-0	1.9		0.76	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(a)pyrene

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292031
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0699 SDG#: DE155-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		5.64	22.4		1
07914	Boron	7440-42-8	0.997	U	0.997	5.60		1
01650	Calcium	7440-70-2	5,570		6.87	22.4		1
01654	Iron	7439-89-6	29,100		10.6	44.8		2
01656	Lithium	7439-93-2	28.5		0.25	2.2		1
01657	Magnesium	7439-95-4	6,240		2.85	11.2		1
06958	Manganese	7439-96-5	250		0.0874	0.560		1
10145	Phosphorus	7723-14-0	260		0.627	11.2		1
01662	Potassium	7440-09-7	2,690		20.2	56.0		1
01667	Sodium	7440-23-5	609		41.8	112		1
07968	Strontium	7440-24-6	45.2		0.0695	0.560		1
06969	Tin	7440-31-5	3.04	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,220		0.426	1.12		1
10146	Zirconium	7440-67-7	6.06		0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.279		0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.46		0.0896	0.448		2
06126	Barium	7440-39-3	152		0.121	0.448		2
06127	Beryllium	7440-41-7	1.08		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.195		0.0448	0.112		2
06131	Chromium	7440-47-3	40.9		0.134	0.448		2
06132	Cobalt	7440-48-4	13.6		0.0224	0.112		2
06133	Copper	7440-50-8	19.6		0.0739	0.448		2
06135	Lead	7439-92-1	15.7		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.553		0.0560	0.112		2
06139	Nickel	7440-02-0	30.3		0.112	0.448		2
06141	Selenium	7782-49-2	0.0759	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0562	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.286		0.0327	0.109		2
06148	Vanadium	7440-62-2	81.8		0.0246	0.112		2
06149	Zinc	7440-66-6	75.3		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.91	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292031
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0699 SDG#: DE155-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.3	U	10.3	34.3		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.23	U	0.23	1.1		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	7.48		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	12.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011	11:08	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011	12:44	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11146SLB026	05/27/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011	08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011	19:42	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011	19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011	17:16	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011	23:02	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292031
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0699 SDG#: DE155-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:02	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:02	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 12:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 03:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 17:48	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292032
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0704 SDG#: DE155-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		6.9	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.9
06192	Methylene Chloride	75-09-2	1.0	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292032
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0704 SDG#: DE155-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292032
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0704 SDG#: DE155-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	81	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.86	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.2		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	2.9		0.38	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292032
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0704 SDG#: DE155-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.80	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	2.5		0.76	1.9		1
10138	Pyrene	129-00-0	1.9		0.76	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(a)pyrene							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,200		5.68	22.6		1
07914	Boron	7440-42-8	1.01	U	1.01	5.65		1
01650	Calcium	7440-70-2	4,650		6.92	22.6		1
01654	Iron	7439-89-6	29,800		10.6	45.2		2
01656	Lithium	7439-93-2	32.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,310		2.87	11.3		1
06958	Manganese	7439-96-5	1,000		0.0881	0.565		1
10145	Phosphorus	7723-14-0	260		0.633	11.3		1
01662	Potassium	7440-09-7	3,090		20.3	56.5		1
01667	Sodium	7440-23-5	349		42.1	113		1
07968	Strontium	7440-24-6	33.9		0.0700	0.565		1
06969	Tin	7440-31-5	3.14	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,600		0.429	1.13		1
10146	Zirconium	7440-67-7	7.06		0.949	5.65		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292032
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0704 SDG#: DE155-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.02	0.0886	0.443		2
06126	Barium	7440-39-3	136	0.120	0.443		2
06127	Beryllium	7440-41-7	0.976	0.0177	0.111		2
06128	Cadmium	7440-43-9	0.172	0.0443	0.111		2
06131	Chromium	7440-47-3	29.6	0.133	0.443		2
06132	Cobalt	7440-48-4	10.4	0.0222	0.111		2
06133	Copper	7440-50-8	13.2	0.0731	0.443		2
06135	Lead	7439-92-1	9.40	0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.411	0.0554	0.111		2
06139	Nickel	7440-02-0	19.9	0.111	0.443		2
06141	Selenium	7782-49-2	0.0695 J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0439 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.325	0.0346	0.115		2
06148	Vanadium	7440-62-2	59.0	0.0244	0.111		2
06149	Zinc	7440-66-6	58.7	0.620	3.32		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0162 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	16.9	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.80	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292032
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0704 SDG#: DE155-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-070-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 17:01	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 18:01	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024463	05/20/2011 11:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024464	05/20/2011 11:32	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024463	05/20/2011 11:16	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 11:33	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 13:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 20:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:20	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292032
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0704 SDG#: DE155-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 13:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 04:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 18:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292033
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0709 SDG#: DE155-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292033
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0709 SDG#: DE155-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol
4,6-dinitro-2-methylphenol

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	1.9	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.2	J	0.76	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(a)pyrene

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292033
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0709 SDG#: DE155-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		5.69	22.6		1
07914	Boron	7440-42-8	1.01	U	1.01	5.65		1
01650	Calcium	7440-70-2	8,990		6.93	22.6		1
01654	Iron	7439-89-6	25,900		5.33	22.6		1
01656	Lithium	7439-93-2	20.3		0.25	2.3		1
01657	Magnesium	7439-95-4	5,390		2.87	11.3		1
06958	Manganese	7439-96-5	131		0.0882	0.565		1
10145	Phosphorus	7723-14-0	239		0.633	11.3		1
01662	Potassium	7440-09-7	2,230		20.4	56.5		1
01667	Sodium	7440-23-5	720		42.2	113		1
07968	Strontium	7440-24-6	54.8		0.0701	0.565		1
06969	Tin	7440-31-5	2.72	J	1.13	11.3		1
06970	Titanium	7440-32-6	711		0.430	1.13		1
10146	Zirconium	7440-67-7	3.75	J	0.950	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.184	J	0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.37		0.0887	0.444		2
06126	Barium	7440-39-3	166		0.120	0.444		2
06127	Beryllium	7440-41-7	1.22		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.175		0.0444	0.111		2
06131	Chromium	7440-47-3	39.8		0.133	0.444		2
06132	Cobalt	7440-48-4	8.95		0.0222	0.111		2
06133	Copper	7440-50-8	19.1		0.0732	0.444		2
06135	Lead	7439-92-1	11.1		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.757		0.0555	0.111		2
06139	Nickel	7440-02-0	27.5		0.111	0.444		2
06141	Selenium	7782-49-2	0.0444	U	0.0444	0.444		2
06142	Silver	7440-22-4	0.0502	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.288		0.0333	0.111		2
06148	Vanadium	7440-62-2	61.9		0.0244	0.111		2
06149	Zinc	7440-66-6	74.5		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0141	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9		0.92	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292033
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0709 SDG#: DE155-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 11:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 13:49	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 20:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292033
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0709 SDG#: DE155-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 13:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 04:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 18:11	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE155-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		8.0	9.5		1.05
06192	Benzene	71-43-2	0.12	U	0.12	4.8		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.8		1.05
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8		1.05
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8		1.05
06192	Bromoform	75-25-2	0.48	U	0.48	4.8		1.05
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8		1.05
06192	2-Butanone	78-93-3	1.5	U	1.5	9.5		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8		1.05
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8		1.05
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8		1.05
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.8		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.8		1.05
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8		1.05
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8		1.05
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8		1.05
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.83	U	0.83	4.8		1.05
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8		1.05
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8		1.05
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8		1.05
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8		1.05
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8		1.05
06192	1,1-Dichloroethene	75-35-4	0.46	U	0.46	4.8		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8		1.05
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8		1.05
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8		1.05
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.8		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8		1.05
06192	Freon 113	76-13-1	0.13	U	0.13	4.8		1.05
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0		1.05
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8		1.05
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.5		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8		1.05
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.46	U	0.46	9.5		1.05
06192	Methylene Chloride	75-09-2	1.0	J	0.29	4.8		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8		1.05

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE155-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.8		1.05
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8		1.05
06192	Toluene	108-88-3	0.1	U	0.1	4.8		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.8		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8		1.05
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8		1.05
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8		1.05
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8		1.05
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8		1.05
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8		1.05
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.6
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE155-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1

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Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE155-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE155-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
	The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,600		5.50	21.9		1
07914	Boron	7440-42-8	0.972	U	0.972	5.46		1
01650	Calcium	7440-70-2	22,300		6.70	21.9		1
01654	Iron	7439-89-6	33,300		10.3	43.7		2
01656	Lithium	7439-93-2	31.4		0.24	2.2		1
01657	Magnesium	7439-95-4	7,410		2.78	10.9		1
06958	Manganese	7439-96-5	347		0.0852	0.546		1
10145	Phosphorus	7723-14-0	165		0.612	10.9		1
01662	Potassium	7440-09-7	3,070		19.7	54.6		1
01667	Sodium	7440-23-5	654		40.8	109		1
07968	Strontium	7440-24-6	70.3		0.0677	0.546		1
06969	Tin	7440-31-5	3.21	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,180		0.415	1.09		1
10146	Zirconium	7440-67-7	6.47		0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.254		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.44		0.0883	0.441		2
06126	Barium	7440-39-3	146		0.119	0.441		2
06127	Beryllium	7440-41-7	1.18		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.211		0.0441	0.110		2
06131	Chromium	7440-47-3	42.2		0.132	0.441		2
06132	Cobalt	7440-48-4	12.2		0.0221	0.110		2
06133	Copper	7440-50-8	19.3		0.0728	0.441		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE155-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	12.7	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.412	0.0552	0.110		2
06139	Nickel	7440-02-0	27.6	0.110	0.441		2
06141	Selenium	7782-49-2	0.184 J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0721 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.303	0.0341	0.114		2
06148	Vanadium	7440-62-2	67.7	0.0243	0.110		2
06149	Zinc	7440-66-6	79.5	0.618	3.31		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0180 J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	20.6	0.91	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.38	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-074-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 17:24	Chelsea B Eastep	1.05

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Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0744 SDG#: DE155-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 18:21	Jason M Long	22.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024463	05/20/2011 11:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024463	05/20/2011 11:19	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 18:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 19:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 16:13	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 20:38	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:24	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:13	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292034
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0744 SDG#: DE155-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 13:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 05:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 18:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292035
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0749 SDG#: DE155-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292035
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0749 SDG#: DE155-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292035
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0749 SDG#: DE155-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCSD recovery for 2,4-diamino-6-nitrotoluene and 2,6-diamino-4-nitrotoluene is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.7	J	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292035
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0749 SDG#: DE155-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.86	23.3		1
07914	Boron	7440-42-8	1.30	J	1.04	5.83		1
01650	Calcium	7440-70-2	78,700		14.3	46.6		2
01654	Iron	7439-89-6	25,300		5.49	23.3		1
01656	Lithium	7439-93-2	24.2		0.26	2.3		1
01657	Magnesium	7439-95-4	6,480		2.96	11.7		1
06958	Manganese	7439-96-5	252		0.0909	0.583		1
10145	Phosphorus	7723-14-0	445		0.653	11.7		1
01662	Potassium	7440-09-7	3,620		21.0	58.3		1
01667	Sodium	7440-23-5	579		43.5	117		1
07968	Strontium	7440-24-6	126		0.0723	0.583		1
06969	Tin	7440-31-5	2.83	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,360		0.443	1.17		1
10146	Zirconium	7440-67-7	6.75		0.979	5.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.71		0.0897	0.448		2
06126	Barium	7440-39-3	133		0.121	0.448		2
06127	Beryllium	7440-41-7	0.914		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.608		0.0448	0.112		2
06131	Chromium	7440-47-3	38.3		0.134	0.448		2
06132	Cobalt	7440-48-4	8.60		0.0224	0.112		2
06133	Copper	7440-50-8	17.9		0.0740	0.448		2
06135	Lead	7439-92-1	9.51		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.276		0.0560	0.112		2
06139	Nickel	7440-02-0	21.9		0.112	0.448		2
06141	Selenium	7782-49-2	0.0825	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0769	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.295		0.0343	0.114		2
06148	Vanadium	7440-62-2	62.0		0.0247	0.112		2
06149	Zinc	7440-66-6	72.8		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0153	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.9		0.93	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292035
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0749 SDG#: DE155-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.72	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 12:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 19:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450004A	05/27/2011 16:55	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:13	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 20:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
11137	Energetics Extraction	SW-846 8330	1	111450004A	05/25/2011 18:30	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/27/2011 17:36	John P Hook	2
01654	Iron	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292035
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0749 SDG#: DE155-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 14:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 05:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 18:45	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292036
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.9		6.8	8.2		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.93
06192	Methylene Chloride	75-09-2	0.77	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292036
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		24.85
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292036
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.39	J	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292036
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,900		5.34	21.2		1
07914	Boron	7440-42-8	0.946	U	0.946	5.31		1
01650	Calcium	7440-70-2	5,820		6.51	21.2		1
01654	Iron	7439-89-6	29,700		10.0	42.5		2
01656	Lithium	7439-93-2	31.9		0.23	2.1		1
01657	Magnesium	7439-95-4	6,470		2.70	10.6		1
06958	Manganese	7439-96-5	269		0.0829	0.531		1
10145	Phosphorus	7723-14-0	155		0.595	10.6		1
01662	Potassium	7440-09-7	2,720		19.1	53.1		1
01667	Sodium	7440-23-5	738		39.6	106		1
07968	Strontium	7440-24-6	57.0		0.0659	0.531		1
06969	Tin	7440-31-5	2.97	J	1.06	10.6		1
06970	Titanium	7440-32-6	715		0.404	1.06		1
10146	Zirconium	7440-67-7	3.85	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0650	0.217		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292036
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	4.54	0.0867	0.433		2
06126	Barium	7440-39-3	120	0.117	0.433		2
06127	Beryllium	7440-41-7	0.785	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0913 J	0.0433	0.108		2
06131	Chromium	7440-47-3	27.0	0.130	0.433		2
06132	Cobalt	7440-48-4	6.37	0.0217	0.108		2
06133	Copper	7440-50-8	12.5	0.0715	0.433		2
06135	Lead	7439-92-1	7.87	0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.149	0.0542	0.108		2
06139	Nickel	7440-02-0	16.8	0.108	0.433		2
06141	Selenium	7782-49-2	0.0846 J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0403 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.293	0.0328	0.109		2
06148	Vanadium	7440-62-2	38.8	0.0238	0.108		2
06149	Zinc	7440-66-6	51.7	0.607	3.25		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068 J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.2	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.49	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292036
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 17:46	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 18:40	Jason M Long	24.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024463	05/20/2011 11:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024463	05/20/2011 11:21	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 09:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 12:18	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 21:15	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 16:48	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 22:30	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06126	Barium	SW-846 6020	1	111451026002D	06/01/2011 22:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06131	Chromium	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06133	Copper	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06135	Lead	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111451026002C	06/01/2011 22:57	David K Beck	2
06139	Nickel	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06141	Selenium	SW-846 6020	1	111451026002B	06/01/2011 22:57	David K Beck	2
06142	Silver	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2
06149	Zinc	SW-846 6020	1	111451026002A	06/01/2011 22:57	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292036
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 11:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 02:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 18:57	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292037
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	7.0	8.4		0.95
06192	Benzene	71-43-2	24	0.10	4.2		0.95
06192	Bromobenzene	108-86-1	22	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	23	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	21	0.08	4.2		0.95
06192	Bromoform	75-25-2	20	0.42	4.2		0.95
06192	Bromomethane	74-83-9	16	0.26	4.2		0.95
06192	2-Butanone	78-93-3	150	1.3	8.4		0.95
06192	n-Butylbenzene	104-51-8	22	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	23	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	23	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	23	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	23	0.12	4.2		0.95
06192	Chloroethane	75-00-3	15	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.31	4.2		0.95
06192	Chloroform	67-66-3	23	0.13	4.2		0.95
06192	Chloromethane	74-87-3	20	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	22	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	23	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	19	0.50	5.0		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	20	0.73	4.2		0.95
06192	Dibromochloromethane	124-48-1	21	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	22	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	21	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	22	0.1	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	22	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	22	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	19	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	24	0.10	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	25	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	23	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	24	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	22	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	22	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	24	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	23	0.06	4.2		0.95
06192	Freon 113	76-13-1	24	0.12	4.2		0.95
06192	Freon 133a	75-88-7	16	0.50	5.0		0.9
06192	Hexachlorobutadiene	87-68-3	19	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	100	1.7	8.4		0.95
06192	Isopropylbenzene	98-82-8	23	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	23	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	22	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	100	0.41	8.4		0.95
06192	Methylene Chloride	75-09-2	23	0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	23	0.07	4.2		0.95

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Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292037
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	23	0.10	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	25	0.21	4.2		0.95
06192	Toluene	108-88-3	23	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	19	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	19	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	23	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	22	0.28	4.2		0.95
06192	Trichloroethene	79-01-6	23	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	20	0.30	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	21	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	23	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	23	0.10	4.2		0.95
06192	Vinyl Chloride	75-01-4	20	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	47	0.18	4.2		0.95
06192	o-Xylene	95-47-6	23	0.18	4.2		0.95
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.						
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	140	5.7	17		25.88
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180		1
04688	Acenaphthylene	208-96-8	1,800	18	180		1
04688	Aniline	62-53-3	1,200	180	540		1
04688	Anthracene	120-12-7	1,700	18	180		1
04688	Benzidine	92-87-5	3,900	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,800	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	18	180		1
04688	Benzoic acid	65-85-0	1,000	180	540		1
04688	Benzyl alcohol	100-51-6	1,700	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,900	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800	18	180		1
04688	Carbazole	86-74-8	1,900	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	36	180		1
04688	4-Chloroaniline	106-47-8	1,100	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,200	18	180		1
04688	2-Chlorophenol	95-57-8	1,700	18	180		1

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Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292037
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	36	180		1
04688	Chrysene	218-01-9	1,800	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	18	180		1
04688	Dibenzofuran	132-64-9	1,800	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,400	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	960	110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180		1
04688	Diethylphthalate	84-66-2	1,800	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600	36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800	36	180		1
04688	Dimethylphthalate	131-11-3	1,700	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	180	540		1
04688	2,4-Dinitrophenol	51-28-5	1,200	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900	18	360		1
04688	Fluoranthene	206-44-0	1,800	18	180		1
04688	Fluorene	86-73-7	1,800	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,400	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,000	180	540		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	18	180		1
04688	Isophorone	78-59-1	1,600	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,700	36	180		1
04688	4-Methylphenol	106-44-5	1,800	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	18	180		1
04688	2-Nitroaniline	88-74-4	1,800	18	180		1
04688	3-Nitroaniline	99-09-2	1,700	36	180		1
04688	4-Nitroaniline	100-01-6	1,400	72	180		1
04688	Nitrobenzene	98-95-3	1,600	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,600	180	540		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	18	180		1
04688	Pentachlorophenol	87-86-5	1,200	180	540		1
04688	Phenanthrene	85-01-8	1,700	18	180		1

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Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292037
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	1,600		18	180		1
04688	Pyrene	129-00-0	1,900		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		36	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33		0.73	1.8		1
10138	Acenaphthylene	208-96-8	34		0.37	1.8		1
10138	Anthracene	120-12-7	37		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	38		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	51		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	52		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	34		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	55		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	39		6.6	20		1
10138	Di-n-butylphthalate	84-74-2	40		6.6	20		1
10138	Chrysene	218-01-9	36		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	40		0.73	1.8		1
10138	Diethylphthalate	84-66-2	38		6.6	20		1
10138	Dimethylphthalate	131-11-3	35		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.6	20		1
10138	Fluoranthene	206-44-0	40		0.73	1.8		1
10138	Fluorene	86-73-7	38		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	30		0.73	1.8		1
10138	Naphthalene	91-20-3	33		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	54		6.6	20		1
10138	Phenanthrene	85-01-8	34		0.73	1.8		1
10138	Pyrene	129-00-0	33		0.73	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-octylphthalate 8 ug/kg
indeno(1,2,3-cd)pyrene .69 ug/kg
dibenz(a,h)anthracene 1.1 ug/kg
These blank values were not subtracted from the analytical results.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	19		0.36	1.9		1

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Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292037
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	16		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,600		5.40	21.5		1
07914	Boron	7440-42-8	214		0.955	5.36		1
01650	Calcium	7440-70-2	6,540		6.58	21.5		1
01654	Iron	7439-89-6	32,400		10.1	42.9		2
01656	Lithium	7439-93-2	146		0.24	2.1		1
01657	Magnesium	7439-95-4	7,600		2.72	10.7		1
06958	Manganese	7439-96-5	382		0.0837	0.536		1
10145	Phosphorus	7723-14-0	294		0.601	10.7		1
01662	Potassium	7440-09-7	4,360		19.3	53.6		1
01667	Sodium	7440-23-5	1,850		40.0	107		1
07968	Strontium	7440-24-6	167		0.0665	0.536		1
06969	Tin	7440-31-5	392		1.07	10.7		1
06970	Titanium	7440-32-6	1,320		0.408	1.07		1
10146	Zirconium	7440-67-7	115		0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.988		0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.20		0.0867	0.433		2
06126	Barium	7440-39-3	116		0.117	0.433		2
06127	Beryllium	7440-41-7	1.48		0.0173	0.108		2
06128	Cadmium	7440-43-9	1.19		0.0433	0.108		2
06131	Chromium	7440-47-3	38.8		0.130	0.433		2
06132	Cobalt	7440-48-4	59.8		0.0217	0.108		2
06133	Copper	7440-50-8	24.5		0.0715	0.433		2
06135	Lead	7439-92-1	11.9		0.0113	0.217		2
06138	Molybdenum	7439-98-7	10.8		0.0542	0.108		2
06139	Nickel	7440-02-0	30.6		0.108	0.433		2
06141	Selenium	7782-49-2	2.15		0.0433	0.433		2
06142	Silver	7440-22-4	11.2		0.0130	0.108		2
06145	Thallium	7440-28-0	0.633		0.0316	0.105		2
06148	Vanadium	7440-62-2	57.5		0.0238	0.108		2
06149	Zinc	7440-66-6	68.5		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.192		0.0031	0.108		1

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Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292037
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	30.7	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	589	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	37.6	1.1	5.5		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 18:08	Chelsea B Eastep	0.95
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 18:53	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 19:00	Jason M Long	25.88
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024463	05/20/2011 11:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024463	05/20/2011 11:23	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 09:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 14:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 21:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292037
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:01	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 22:41	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06126	Barium	SW-846 6020	1	111451026002D	06/01/2011 23:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06131	Chromium	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06133	Copper	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06135	Lead	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111451026002C	06/01/2011 23:07	David K Beck	2
06139	Nickel	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06141	Selenium	SW-846 6020	1	111451026002B	06/01/2011 23:07	David K Beck	2
06142	Silver	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
06149	Zinc	SW-846 6020	1	111451026002A	06/01/2011 23:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 12:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 03:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11144243202A	05/25/2011 19:14	Ashley M Adams	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292038
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	6.2	7.4		0.83
06192	Benzene	71-43-2	19	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	16	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	19	0.30	3.7		0.83
06192	Bromodichloromethane	75-27-4	17	0.07	3.7		0.83
06192	Bromoform	75-25-2	17	0.37	3.7		0.83
06192	Bromomethane	74-83-9	13	0.23	3.7		0.83
06192	2-Butanone	78-93-3	140	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	16	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	16	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	16	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	18	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	17	0.10	3.7		0.83
06192	Chloroethane	75-00-3	12	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.28	3.7		0.83
06192	Chloroform	67-66-3	18	0.11	3.7		0.83
06192	Chloromethane	74-87-3	16	0.30	3.7		0.83
06192	2-Chlorotoluene	95-49-8	16	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	16	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	15	0.45	4.5		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	17	0.18	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	18	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	18	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	16	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	16	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	16	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	15	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	19	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	18	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	20	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	18	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	18	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	18	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	18	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	18	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	19	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	16	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	17	0.06	3.7		0.83
06192	Freon 113	76-13-1	20	0.10	3.7		0.83
06192	Freon 133a	75-88-7	13	0.45	4.5		0.82
06192	Hexachlorobutadiene	87-68-3	13	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	96	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	17	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	16	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.19	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	93	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	19	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	17	0.06	3.7		0.83

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292038
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	17	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	17	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	17	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	18	0.18	3.7		0.83
06192	Toluene	108-88-3	18	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	15	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	14	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	19	0.18	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	18	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	18	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	17	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	17	0.30	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	16	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	17	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	17	0.18	3.7		0.83
06192	m+p-Xylene	179601-23-1	35	0.16	3.7		0.83
06192	o-Xylene	95-47-6	17	0.16	3.7		0.83

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130	4.7	14		21.08
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	18	180		1
04688	Acenaphthylene	208-96-8	1,700	18	180		1
04688	Aniline	62-53-3	1,300	180	550		1
04688	Anthracene	120-12-7	1,600	18	180		1
04688	Benzidine	92-87-5	5,000	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	1,700	18	180		1
04688	Benzo(a)pyrene	50-32-8	1,700	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	18	180		1
04688	Benzoic acid	65-85-0	680	180	550		1
04688	Benzyl alcohol	100-51-6	1,700	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600	18	180		1
04688	Butylbenzylphthalate	85-68-7	1,800	18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700	18	180		1
04688	Carbazole	86-74-8	1,800	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	36	180		1
04688	4-Chloroaniline	106-47-8	1,500	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	18	180		1
04688	2-Chloronaphthalene	91-58-7	1,800	18	180		1
04688	2-Chlorophenol	95-57-8	1,700	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292038
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		36	180		1
04688	Chrysene	218-01-9	1,700		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	360		1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180		1
04688	Diethylphthalate	84-66-2	1,700		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600		36	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		36	180		1
04688	Dimethylphthalate	131-11-3	1,700		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	420	J	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		36	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	360		1
04688	Fluoranthene	206-44-0	1,700		18	180		1
04688	Fluorene	86-73-7	1,800		18	180		1
04688	Hexachlorobenzene	118-74-1	1,700		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,400		73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,000		180	550		1
04688	Hexachloroethane	67-72-1	1,400		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180		1
04688	Isophorone	78-59-1	1,500		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,500		18	180		1
04688	2-Methylphenol	95-48-7	1,600		36	180		1
04688	4-Methylphenol	106-44-5	1,700		36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		18	180		1
04688	2-Nitroaniline	88-74-4	1,800		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		36	180		1
04688	4-Nitroaniline	100-01-6	1,400		73	180		1
04688	Nitrobenzene	98-95-3	1,500		18	180		1
04688	2-Nitrophenol	88-75-5	1,600		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,300		36	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		18	180		1
04688	Pentachlorophenol	87-86-5	940		180	550		1
04688	Phenanthrene	85-01-8	1,600		18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292038
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	1,500		18	180		1
04688	Pyrene	129-00-0	1,800		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		36	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	9.4		0.72	1.8		1
10138	Acenaphthylene	208-96-8	9.5		0.36	1.8		1
10138	Anthracene	120-12-7	11		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	12		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	15		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	17		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	8.5		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	17		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	11	J	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.5	20		1
10138	Chrysene	218-01-9	11		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	10		0.72	1.8		1
10138	Diethylphthalate	84-66-2	11	J	6.5	20		1
10138	Dimethylphthalate	131-11-3	11	J	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.5	20		1
10138	Fluoranthene	206-44-0	13		0.72	1.8		1
10138	Fluorene	86-73-7	11		0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	10		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	11		0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	9.3		0.72	1.8		1
10138	Naphthalene	91-20-3	9.1		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	9.3		0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	23		6.5	20		1
10138	Phenanthrene	85-01-8	10		0.72	1.8		1
10138	Pyrene	129-00-0	10		0.72	1.8		1

The following compounds were detected in the method blank at the respective concentrations of:
di-n-octylphthalate 8 ug/kg
indeno(1,2,3-cd)pyrene .69 ug/kg
dibenz(a,h)anthracene 1.1 ug/kg
These blank values were not subtracted from the analytical results.

The GC/MS semivolatile surrogate recoveries are outside of QC limits in this sample.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292038
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	16		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	39,600		5.50	21.9		1
07914	Boron	7440-42-8	224		0.974	5.47		1
01650	Calcium	7440-70-2	12,400		6.71	21.9		1
01654	Iron	7439-89-6	33,500		10.3	43.8		2
01656	Lithium	7439-93-2	152		0.24	2.2		1
01657	Magnesium	7439-95-4	8,120		2.78	10.9		1
06958	Manganese	7439-96-5	353		0.0853	0.547		1
10145	Phosphorus	7723-14-0	294		0.613	10.9		1
01662	Potassium	7440-09-7	4,650		19.7	54.7		1
01667	Sodium	7440-23-5	1,930		40.8	109		1
07968	Strontium	7440-24-6	173		0.0678	0.547		1
06969	Tin	7440-31-5	395		1.09	10.9		1
06970	Titanium	7440-32-6	1,570		0.416	1.09		1
10146	Zirconium	7440-67-7	118		0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.22		0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0858	0.429		2
06126	Barium	7440-39-3	286		0.290	1.07		5
06127	Beryllium	7440-41-7	2.21		0.0172	0.107		2
06128	Cadmium	7440-43-9	1.71		0.0429	0.107		2
06131	Chromium	7440-47-3	59.3		0.129	0.429		2
06132	Cobalt	7440-48-4	83.1		0.0215	0.107		2
06133	Copper	7440-50-8	33.7		0.0708	0.429		2
06135	Lead	7439-92-1	18.2		0.0112	0.215		2
06138	Molybdenum	7439-98-7	14.3		0.0536	0.107		2
06139	Nickel	7440-02-0	41.7		0.107	0.429		2
06141	Selenium	7782-49-2	2.51		0.0429	0.429		2
06142	Silver	7440-22-4	14.8		0.0129	0.107		2
06145	Thallium	7440-28-0	0.693		0.0319	0.106		2
06148	Vanadium	7440-62-2	94.1		0.0236	0.107		2
06149	Zinc	7440-66-6	94.6		0.601	3.22		2

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Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292038
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.182	0.0030	0.106		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 18:30	Chelsea B Eastep	0.83
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 19:15	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 19:20	Jason M Long	21.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024463	05/20/2011 11:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024463	05/20/2011 11:27	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 10:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 14:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 21:52	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:05	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292038
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 22:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	06/01/2011 23:27	David K Beck	5
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292039
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,100		5.45	21.7		1
07914	Boron	7440-42-8	0.964	U	0.964	5.42		1
01650	Calcium	7440-70-2	14,500		6.64	21.7		1
01654	Iron	7439-89-6	32,900		10.2	43.3		2
01656	Lithium	7439-93-2	35.7		0.24	2.2		1
01657	Magnesium	7439-95-4	7,090		2.75	10.8		1
06958	Manganese	7439-96-5	254		0.0845	0.542		1
10145	Phosphorus	7723-14-0	145		0.607	10.8		1
01662	Potassium	7440-09-7	2,810		19.5	54.2		1
01667	Sodium	7440-23-5	823		40.4	108		1
07968	Strontium	7440-24-6	61.8		0.0672	0.542		1
06969	Tin	7440-31-5	3.29	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,120		0.412	1.08		1
10146	Zirconium	7440-67-7	6.71		0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.23		0.0867	0.433		2
06126	Barium	7440-39-3	114		0.117	0.433		2
06127	Beryllium	7440-41-7	0.755		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.131		0.0433	0.108		2
06131	Chromium	7440-47-3	30.0		0.130	0.433		2
06132	Cobalt	7440-48-4	7.68		0.0217	0.108		2
06133	Copper	7440-50-8	12.5		0.0715	0.433		2
06135	Lead	7439-92-1	8.71		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.147		0.0542	0.108		2
06139	Nickel	7440-02-0	18.6		0.108	0.433		2
06141	Selenium	7782-49-2	0.0590	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0535	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.287		0.0325	0.108		2
06148	Vanadium	7440-62-2	46.7		0.0238	0.108		2
06149	Zinc	7440-66-6	53.8		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.7		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Sample Description: SL-076-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292039
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.50	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 16:57	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 22:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06126	Barium	SW-846 6020	1	111451026002D	06/01/2011 23:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06128	Cadmium	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06131	Chromium	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06133	Copper	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06135	Lead	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111451026002C	06/01/2011 23:03	David K Beck	2
06139	Nickel	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06141	Selenium	SW-846 6020	1	111451026002B	06/01/2011 23:03	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292039
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0764 SDG#: DE155-07DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 21:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
06149	Zinc	SW-846 6020	1	111451026002A	06/01/2011 23:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 12:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 02:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 19:43	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292040
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0769 SDG#: DE155-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292040
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0769 SDG#: DE155-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol
4,6-dinitro-2-methylphenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.93	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.89	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.86	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	1.4	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	1.1	J	0.77	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(a)pyrene

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292040
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0769 SDG#: DE155-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.59	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		5.71	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.67		1
01650	Calcium	7440-70-2	66,100		13.9	45.4		2
01654	Iron	7439-89-6	25,500		5.34	22.7		1
01656	Lithium	7439-93-2	25.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,170		2.88	11.3		1
06958	Manganese	7439-96-5	289		0.0885	0.567		1
10145	Phosphorus	7723-14-0	427		0.635	11.3		1
01662	Potassium	7440-09-7	3,340		20.4	56.7		1
01667	Sodium	7440-23-5	710		42.3	113		1
07968	Strontium	7440-24-6	99.6		0.0704	0.567		1
06969	Tin	7440-31-5	2.48	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,260		0.431	1.13		1
10146	Zirconium	7440-67-7	6.36		0.953	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.257		0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.81		0.0926	0.463		2
06126	Barium	7440-39-3	126		0.125	0.463		2
06127	Beryllium	7440-41-7	0.966		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.424		0.0463	0.116		2
06131	Chromium	7440-47-3	41.4		0.139	0.463		2
06132	Cobalt	7440-48-4	12.6		0.0231	0.116		2
06133	Copper	7440-50-8	19.7		0.0764	0.463		2
06135	Lead	7439-92-1	12.2		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.419		0.0579	0.116		2
06139	Nickel	7440-02-0	27.3		0.116	0.463		2
06141	Selenium	7782-49-2	0.0540	J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0618	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.257		0.0331	0.110		2
06148	Vanadium	7440-62-2	80.0		0.0255	0.116		2
06149	Zinc	7440-66-6	90.6		0.648	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0129	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.3		0.93	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292040
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0769 SDG#: DE155-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 13:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 14:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 22:10	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/27/2011 17:40	John P Hook	2
01654	Iron	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292040
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0769 SDG#: DE155-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:02	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 14:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 06:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 19:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292041
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE155-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.1		7.0	8.3		0.92
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.92
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.92
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.92
06192	Methylene Chloride	75-09-2	0.87	J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.92

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Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292041
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE155-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.92
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.8
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292041
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE155-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1

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Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292041
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

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Suite 210
Chantilly VA 20151

DUP03 SDG#: DE155-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,300		5.61	22.3		1
07914	Boron	7440-42-8	0.992	U	0.992	5.57		1
01650	Calcium	7440-70-2	44,400		6.83	22.3		1
01654	Iron	7439-89-6	31,800		10.5	44.6		2
01656	Lithium	7439-93-2	33.6		0.25	2.2		1
01657	Magnesium	7439-95-4	6,910		2.83	11.1		1
06958	Manganese	7439-96-5	317		0.0870	0.557		1
10145	Phosphorus	7723-14-0	124		0.624	11.1		1
01662	Potassium	7440-09-7	2,430		20.1	55.7		1
01667	Sodium	7440-23-5	862		41.6	111		1
07968	Strontium	7440-24-6	69.9		0.0691	0.557		1
06969	Tin	7440-31-5	2.99	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,040		0.424	1.11		1
10146	Zirconium	7440-67-7	6.27		0.937	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.235		0.0676	0.225		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292041
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE155-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	6.40	0.0901	0.450		2
06126	Barium	7440-39-3	115	0.122	0.450		2
06127	Beryllium	7440-41-7	1.10	0.0180	0.113		2
06128	Cadmium	7440-43-9	0.120	0.0450	0.113		2
06131	Chromium	7440-47-3	39.8	0.135	0.450		2
06132	Cobalt	7440-48-4	15.0	0.0225	0.113		2
06133	Copper	7440-50-8	16.2	0.0743	0.450		2
06135	Lead	7439-92-1	13.0	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.183	0.0563	0.113		2
06139	Nickel	7440-02-0	24.7	0.113	0.450		2
06141	Selenium	7782-49-2	0.0596 J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0355 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.241	0.0328	0.109		2
06148	Vanadium	7440-62-2	60.1	0.0248	0.113		2
06149	Zinc	7440-66-6	67.7	0.631	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0211 J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.2	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.53	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292041
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE155-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 19:37	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 19:59	Jason M Long	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024464	05/20/2011 11:33	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024464	05/20/2011 11:29	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 13:35	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 20:37	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 22:29	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:44	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292041
LLI Group # 1247624
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE155-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202A	05/26/2011 14:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201A	06/03/2011 06:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 20:05	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202A	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201A	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401A	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111442AA	Sample number(s): 6292030,6292032,6292034,6292036-6292038,6292041									
Acetone	6.7	U	6.7	8.0	ug/kg	91		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	99		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	102		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	93		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	94		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	97		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	98		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	65		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	84		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	83		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	96		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	78		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	99		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	98		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	90		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	98		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	75*		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	98		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	96		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	97		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	98		61-134		
Methylene Chloride	0.66	J	0.24	4.0	ug/kg	100		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	98		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	99		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	97		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	88		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	96		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	96		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	95		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	96		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	83		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
Batch number: E111432AA	Sample number(s): 6292030,6292032,6292034,6292036-6292038,6292041									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	110	107	70-130	3	30
Batch number: 11141SLA026	Sample number(s): 6292030-6292038,6292040-6292041									
Acenaphthene	17	U	17.	170	ug/kg	84		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	94		75-122		
Aniline	170 U		170.	500	ug/kg	70		34-94		
Anthracene	17	U	17.	170	ug/kg	90		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	90		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	90		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	86		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	90		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	92		67-125		
Benzoic acid	170 U		170.	500	ug/kg	70		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	85		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	95		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	88		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	63		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	85		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	82		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	91		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	86		79-110		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	90		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	57		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	87		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	93		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	92		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	51*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	28*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	89		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	99		75-117		
Fluoranthene	17	U	17.	170	ug/kg	93		78-116		
Fluorene	17	U	17.	170	ug/kg	93		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	80		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	57		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	90		64-119		
Isophorone	17	U	17.	170	ug/kg	82		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	84		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	75		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	65		51-117		
Phenanthrene	17	U	17.	170	ug/kg	88		77-113		
Phenol	17	U	17.	170	ug/kg	84		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 11141SLD026	Sample number(s): 6292034-6292038,6292041									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	136*		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	139		63-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	147*		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	132		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	1.1	J	0.67	1.7	ug/kg	150*		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	94		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	124		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	105		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.69	J	0.67	1.7	ug/kg	148*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	8.0	J	6.0	18	ug/kg	152		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		56-121		
Batch number: 11146SLB026	Sample number(s): 6292030-6292033,6292040									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	103		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	108		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	131*		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	137		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	141		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	121		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	121		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	105		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	114		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	110		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	132		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	104		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	107		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	152		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	102		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 111450004A	Sample number(s): 6292034-6292035									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	95	0*	54-134	200*	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	119		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100 U		100.	300	ug/kg	101		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	132*		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	97		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80	U	80.	120	ug/kg	106		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	105		80-120		
PETN	800	U	800.	2,400	ug/kg	123*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	72		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	109		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111430024A	Sample number(s): 6292035									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111440020A	Sample number(s): 6292030-6292038,6292040-6292041									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	81	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	92		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111451026002A	Sample number(s): 6292030-6292041									
Antimony	0.0600	U	0.0600	0.200	mg/kg	108		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	113		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	119		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0707	J	0.0660	0.400	mg/kg	103		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	106		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	106		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	106		81-111		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	108		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	106		81-112		
Batch number: 111451026002B	Sample number(s): 6292030-6292041									
Selenium	0.0400	U	0.0400	0.400	mg/kg	111		83-111		
Batch number: 111451026002C	Sample number(s): 6292030-6292041									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	119		78-122		
Batch number: 111451026002D	Sample number(s): 6292030-6292041									
Barium	0.108	U	0.108	0.400	mg/kg	107		81-111		
Batch number: 111455708002	Sample number(s): 6292030-6292041									
Aluminum	5.03	U	5.03	20.0	mg/kg	93		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.19	J	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	100		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	105		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	2.54	U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.07	J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.61	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	100		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 111455711002	Sample number(s): 6292030-6292041									
Mercury	0.0027	U	0.0027	0.0946	mg/kg	99		88-123		
Batch number: 111531026004A	Sample number(s): 6292030-6292041									
Thallium	0.0288	U	0.0288	0.0962	mg/kg	105		83-110		
Batch number: 11144243202A	Sample number(s): 6292030-6292037,6292039-6292041									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	80		80-120		
Batch number: 11145621201A	Sample number(s): 6292030-6292037,6292039-6292041									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	113		85-115		
Batch number: 11145621202A	Sample number(s): 6292030-6292037,6292039-6292041									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	108		90-110		
Batch number: 11144039401A	Sample number(s): 6292030-6292036,6292039-6292041									
18a pH by 9045C						100		95-105		
Batch number: 11147162402A	Sample number(s): 6292030-6292033,6292036-6292041									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11160162402A	Sample number(s): 6292034-6292035									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111442AA	Sample number(s): 6292030,6292032,6292034,6292036-6292038,6292041 UNSPK: 6292036								
Acetone	90	93	15-210	9	30				
Benzene	113	102	55-143	24	30				
Bromobenzene	106	89	43-139	30	30				
Bromochloromethane	109	101	60-137	20	30				
Bromodichloromethane	102	93	53-136	22	30				
Bromoform	96	90	38-124	19	30				
Bromomethane	76	71	42-168	19	30				
2-Butanone	97	100	37-163	9	30				
n-Butylbenzene	107	84	30-146	36*	30				
sec-Butylbenzene	111	87	33-157	36*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
tert-Butylbenzene	110	88	41-152	35*	30				
Carbon Tetrachloride	110	99	45-153	23	30				
Chlorobenzene	108	94	49-135	27	30				
Chloroethane	70	65	39-152	20	30				
2-Chloroethyl Vinyl Ether	90	98	32-139	4	30				
Chloroform	110	100	61-142	23	30				
Chloromethane	94	89	51-163	18	30				
2-Chlorotoluene	107	87	42-146	33*	30				
4-Chlorotoluene	110	89	39-145	34*	30				
Chlorotrifluoroethene	94	85	70-130	19	30				
1,2-Dibromo-3-chloropropane	94	94	30-139	13	30				
Dibromochloromethane	99	91	51-128	22	30				
1,2-Dibromoethane	103	97	54-129	19	30				
Dibromomethane	101	96	57-130	19	30				
1,2-Dichlorobenzene	106	88	36-133	32*	30				
1,3-Dichlorobenzene	103	85	34-134	32*	30				
1,4-Dichlorobenzene	103	85	35-136	32*	30				
Dichlorodifluoromethane	90	83	26-151	21	30				
1,1-Dichloroethane	113	102	63-142	23	30				
1,2-Dichloroethane	106	100	68-131	19	30				
1,1-Dichloroethene	118	108	61-149	22	30				
cis-1,2-Dichloroethene	110	100	60-136	23	30				
trans-1,2-Dichloroethene	114	99	59-142	27	30				
1,2-Dichloropropane	107	97	62-135	22	30				
1,3-Dichloropropane	104	96	58-129	21	30				
2,2-Dichloropropane	106	98	53-147	22	30				
1,1-Dichloropropene	113	103	54-145	22	30				
cis-1,3-Dichloropropene	100	91	51-131	22	30				
trans-1,3-Dichloropropene	95	87	49-129	22	30				
Ethylbenzene	110	94	44-141	28	30				
Freon 113	115	107	56-156	20	30				
Freon 133a	81	74	61-131	19	30				
Hexachlorobutadiene	92	72	10-155	37*	30				
2-Hexanone	100	104	32-160	9	30				
Isopropylbenzene	111	93	38-144	30	30				
p-Isopropyltoluene	109	85	29-152	37*	30				
Methyl Tertiary Butyl Ether	103	96	55-129	19	30				
4-Methyl-2-pentanone	96	101	46-139	8	30				
Methylene Chloride	107	99	61-141	20	30				
n-Propylbenzene	111	89	39-157	34*	30				
Styrene	110	94	35-134	29	30				
1,1,1,2-Tetrachloroethane	104	93	52-130	25	30				
1,1,2,2-Tetrachloroethane	99	91	40-152	21	30				
Tetrachloroethene	117	100	42-149	28	30				
Toluene	111	97	50-146	26	30				
1,2,3-Trichlorobenzene	92	82	10-140	25	30				
1,2,4-Trichlorobenzene	89	76	10-136	28	30				
1,1,1-Trichloroethane	110	101	64-142	22	30				
1,1,2-Trichloroethane	104	95	54-139	22	30				
Trichloroethene	109	99	53-144	23	30				
Trichlorofluoromethane	97	91	47-163	19	30				
1,2,3-Trichloropropane	98	93	45-154	18	30				
1,2,4-Trimethylbenzene	108	86	37-149	35*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247624
Reported: 06/10/11 at 09:18 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3,5-Trimethylbenzene	111	90	38-150	34*	30				
Vinyl Chloride	95	90	50-154	18	30				
m+p-Xylene	112	95	44-137	29	30				
o-Xylene	109	93	42-137	28	30				
Batch number: E111432AA	Sample number(s): 6292030,6292032,6292034,6292036-6292038,6292041 UNSPK: 6292036								
1,4-Dioxane	99	111	70-130	9	30				
Batch number: 11141SLA026	Sample number(s): 6292030-6292038,6292040-6292041 UNSPK: 6292036								
Acenaphthene	89	86	75-115	3	30				
Acenaphthylene	99	96	81-110	3	30				
Aniline	68	69	35-95	3	30				
Anthracene	95	91	75-115	5	30				
Benzidine	43	55	35-141	23	30				
Benzo(a)anthracene	96	91	65-122	4	30				
Benzo(a)pyrene	99	94	57-126	5	30				
Benzo(b)fluoranthene	101	90	59-125	12	30				
Benzo(g,h,i)perylene	97	92	59-127	5	30				
Benzo(k)fluoranthene	100	96	56-132	3	30				
Benzoic acid	56	37	10-173	39*	30				
Benzyl alcohol	93	91	67-115	2	30				
4-Bromophenyl-phenylether	88	87	67-129	1	30				
Butylbenzylphthalate	108	102	73-134	5	30				
Di-n-butylphthalate	102	96	67-123	6	30				
Carbazole	105	100	64-120	5	30				
4-Chloro-3-methylphenol	93	92	76-110	1	30				
4-Chloroaniline	63	83	23-95	28	30				
bis(2-Chloroethoxy)methane	88	86	75-104	2	30				
bis(2-Chloroethyl)ether	87	84	60-116	4	30				
bis(2-Chloroisopropyl)ether	83	81	55-142	2	30				
2-Chloronaphthalene	68	97	50-141	35*	30				
2-Chlorophenol	96	93	73-121	3	30				
4-Chlorophenyl-phenylether	91	89	80-109	2	30				
Chrysene	99	94	62-128	5	30				
Dibenz(a,h)anthracene	98	93	65-125	5	30				
Dibenzofuran	97	95	71-112	3	30				
1,2-Dichlorobenzene	82	80	66-108	2	30				
1,3-Dichlorobenzene	79	77	63-109	2	30				
1,4-Dichlorobenzene	80	78	70-100	2	30				
3,3'-Dichlorobenzidine	53	69	16-119	26	30				
2,4-Dichlorophenol	102	100	78-117	2	30				
Diethylphthalate	99	96	66-118	3	30				
2,4-Dimethylphenol	90	88	78-110	2	30				
3,5-Dimethylphenol	98	96	70-130	1	30				
Dimethylphthalate	96	96	64-118	0	30				
4,6-Dinitro-2-methylphenol	65	23*	24-116	94*	30				
2,4-Dinitrophenol	34	0*	20-143	200*	30				
2,4-Dinitrotoluene	104	100	73-113	4	30				
2,6-Dinitrotoluene	99	97	69-123	2	30				
1,2-Diphenylhydrazine	94	87	71-129	6	30				
bis(2-Ethylhexyl)phthalate	102	97	63-122	5	30				
Fluoranthene	99	96	73-112	4	30				
Fluorene	99	97	77-111	1	30				

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Quality Control Summary

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Reported: 06/10/11 at 09:18 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobenzene	96	91	77-114	4	30				
Hexachlorobutadiene	79	79	62-120	0	30				
Hexachlorocyclopentadiene	57	56	10-153	1	30				
Hexachloroethane	77	75	57-109	2	30				
Indeno(1,2,3-cd)pyrene	95	89	61-126	6	30				
Isophorone	86	84	73-102	1	30				
1-Methylnaphthalene	95	92	73-112	3	30				
2-Methylnaphthalene	88	85	76-114	3	30				
2-Methylphenol	93	90	75-111	3	30				
4-Methylphenol	98	94	71-111	3	30				
Naphthalene	86	86	72-116	1	30				
2-Nitroaniline	100	99	67-125	0	30				
3-Nitroaniline	96	96	59-122	1	30				
4-Nitroaniline	75	77	52-112	3	30				
Nitrobenzene	86	84	72-106	2	30				
2-Nitrophenol	95	90	74-115	5	30				
4-Nitrophenol	90	88	54-113	1	30				
N-Nitroso-di-n-propylamine	80	79	60-116	1	30				
N-Nitrosodimethylamine	77	72	47-116	7	30				
N-Nitrosodiphenylamine	101	96	86-145	5	30				
Di-n-octylphthalate	111	105	56-126	6	30				
Pentachlorophenol	65	52	28-127	22	30				
Phenanthrene	96	90	65-125	6	30				
Phenol	88	85	58-126	3	30				
Pyrene	102	98	74-126	4	30				
1,2,4-Trichlorobenzene	84	82	72-115	2	30				
2,4,5-Trichlorophenol	99	97	78-109	1	30				
2,4,6-Trichlorophenol	98	99	77-115	2	30				
Batch number: 11141SLD026	Sample number(s): 6292034-6292038,6292041 UNSPK: 6292036								
Acenaphthene	91	26*	63-105	112*	30				
Acenaphthylene	93	26*	67-114	112*	30				
Anthracene	100	29*	60-122	110*	30				
Benzo(a)anthracene	103	32*	59-128	106*	30				
Benzo(a)pyrene	141*	43*	45-138	108*	30				
Benzo(b)fluoranthene	142	46	43-155	103*	30				
Benzo(g,h,i)perylene	92	23*	33-141	119*	30				
Benzo(k)fluoranthene	151*	48	42-144	105*	30				
Butylbenzylphthalate	108	31*	57-173	110*	30				
Di-n-butylphthalate	109	35*	65-148	103*	30				
Chrysene	97	30*	48-134	105*	30				
Dibenz(a,h)anthracene	111	29	22-133	118*	30				
Diethylphthalate	103	30*	70-136	112*	30				
Dimethylphthalate	97	30*	74-118	107*	30				
Bis(2-Ethylhexyl)phthalate	115	39	39-167	100*	30				
Fluoranthene	109	37	26-166	100*	30				
Fluorene	103	30*	66-122	111*	30				
Indeno(1,2,3-cd)pyrene	106	27	21-143	118*	30				
1-Methylnaphthalene	96	29*	72-123	107*	30				
2-Methylnaphthalene	82	26*	64-103	106*	30				
Naphthalene	91	25*	61-102	114*	30				
N-Nitrosodimethylamine	90	26*	48-113	112*	30				
Di-n-octylphthalate	147	62	40-192	82*	30				

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Quality Control Summary

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Reported: 06/10/11 at 09:18 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	93	29	12-165	107*	30				
Pyrene	90	29	15-153	105*	30				
Batch number: 11146SLB026	Sample number(s): 6292030-6292033,6292040 UNSPK: P298873								
Acenaphthene	93	91	63-105	2	30				
Acenaphthylene	95	91	67-114	3	30				
Anthracene	102	102	60-122	1	30				
Benzo(a)anthracene	104	103	59-128	0	30				
Benzo(a)pyrene	133	129	45-138	2	30				
Benzo(b)fluoranthene	160*	137	43-155	14	30				
Benzo(g,h,i)perylene	66	66	33-141	0	30				
Benzo(k)fluoranthene	136	144	42-144	6	30				
Butylbenzylphthalate	100	104	57-173	5	30				
Di-n-butylphthalate	112	112	65-148	1	30				
Chrysene	101	99	48-134	1	30				
Dibenz(a,h)anthracene	88	88	22-133	1	30				
Diethylphthalate	104	99	70-136	4	30				
Dimethylphthalate	101	96	74-118	4	30				
Fluoranthene	114	112	26-166	1	30				
Fluorene	101	98	66-122	2	30				
Indeno(1,2,3-cd)pyrene	82	82	21-143	0	30				
1-Methylnaphthalene	98	97	72-123	0	30				
2-Methylnaphthalene	90	88	64-103	2	30				
Naphthalene	95	92	61-102	2	30				
N-Nitrosodimethylamine	104	102	48-113	1	30				
Di-n-octylphthalate	156	151	40-192	2	30				
Phenanthrene	99	96	12-165	2	30				
Pyrene	89	89	15-153	2	30				
Batch number: 111450004A	Sample number(s): 6292034-6292035 UNSPK: P290754								
4-Amino-2,6-Dinitrotoluene	109	109	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	113	113	80-137	0	50				
1,3-Dinitrobenzene	117	117	38-166	0	50				
2,4-Dinitrotoluene	107	107	80-131	0	50				
2,6-Dinitrotoluene	106	106	80-127	0	50				
HMX	99	99	63-128	0	50				
Nitrobenzene	128*	128*	80-125	0	50				
Nitroglycerin	106	106	80-120	0	50				
2-Nitrotoluene	105	105	80-122	1	50				
3-Nitrotoluene	107	107	72-119	0	50				
4-Nitrotoluene	104	104	80-125	0	50				
PETN	126*	125*	80-121	1	50				
RDX	96	97	75-129	1	50				
Tetryl	74	73	55-174	0	50				
1,3,5-Trinitrobenzene	107	106	82-126	0	50				
2,4,6-Trinitrotoluene	108	107	82-130	0	50				
Batch number: 111430024A	Sample number(s): 6292035 UNSPK: P291999								
6a Perchlorate EPA 6850	109	111	80-120	2	20				
Batch number: 111440020A	Sample number(s): 6292030-6292038,6292040-6292041 UNSPK: 6292036								
PCB-1016	103	86	29-146	18	50				
PCB-1260	86	86	39-149	0	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111451026002A	Sample number(s): 6292030-6292041 UNSPK: 6292036 BKG: 6292036								
Antimony	66*	84	75-125	21*	20	0.121 J	0.152 J	23* (1)	20
Arsenic	123	281*	75-125	38*	20	4.11	4.73	14	20
Beryllium	80	167*	75-125	40*	20	0.711	0.684	4	20
Cadmium	101	151*	75-125	36*	20	0.0826 J	0.119	36* (1)	20
Chromium	109	301*	75-125	42*	20	24.4	27.1	10	20
Cobalt	99	143*	75-125	33*	20	5.76	6.95	19	20
Copper	111	198*	75-125	31*	20	11.3	11.3	0	20
Lead	123	321*	75-125	42*	20	7.12	7.89	10	20
Nickel	128*	232*	75-125	31*	20	15.2	16.8	10	20
Silver	103	138*	75-125	28*	20	0.0364 J	0.0484 J	28* (1)	20
Vanadium	172*	515*	75-125	48*	20	35.1	42.3	18	20
Zinc	155 (2)	400 (2)	75-125	32*	20	46.7	48.7	4	20
Batch number: 111451026002B	Sample number(s): 6292030-6292041 UNSPK: 6292036 BKG: 6292036								
Selenium	95	113	75-125	16	20	0.0765 J	0.0534 J	36* (1)	20
Batch number: 111451026002C	Sample number(s): 6292030-6292041 UNSPK: 6292036 BKG: 6292036								
Molybdenum	98	132*	75-125	28*	20	0.135	0.133	1 (1)	20
Batch number: 111451026002D	Sample number(s): 6292030-6292041 UNSPK: 6292036 BKG: 6292036								
Barium	-33 (2)	1553 (2)	75-125	85*	20	108	103	5	20
Batch number: 111455708002	Sample number(s): 6292030-6292041 UNSPK: 6292036 BKG: 6292036								
Aluminum	3128 (2)	5339 (2)	75-125	13	20	25,200	30,900	20	20
Boron	100	102	84-115	4	20	0.856 U	0.873 U	0 (1)	20
Calcium	168 (2)	1497 (2)	75-125	62*	20	5,270	13,100	85*	20
Iron	2495 (2)	3453 (2)	75-125	3	20	26,900	29,800	10	20
Lithium	106	109	82-114	4	20	28.9	32.3	11	20
Magnesium	525 (2)	755 (2)	75-125	7	20	5,850	6,420	9	20
Manganese	210 (2)	153 (2)	75-125	8	20	243	230	6	20
Phosphorus	130*	127*	75-125	0	20	140	131	6	20
Potassium	153*	177*	75-125	7	20	2,460	2,550	3	20
Sodium	104	109	75-125	4	20	668	745	11	20
Strontium	103	106	75-115	4	20	51.6	55.9	8	20
Tin	91	90	80-110	1	20	2.69 J	2.98 J	10 (1)	20
Titanium	565 (2)	785 (2)	75-125	17	20	647	1,020	44*	20
Zirconium	103	104	75-125	3	20	3.48 J	6.07	54* (1)	20
Batch number: 111455711002	Sample number(s): 6292030-6292041 UNSPK: 6292036 BKG: 6292036								
Mercury	103	99	65-135	6	20	0.0061 J	0.0027 U	200* (1)	20
Batch number: 111531026004A	Sample number(s): 6292030-6292041 UNSPK: 6292036 BKG: 6292036								
Thallium	81	94	75-125	9	20	0.265	0.260	2 (1)	20
Batch number: 11144243202A	Sample number(s): 6292030-6292037,6292039-6292041 UNSPK: 6292036 BKG: 6292036								
3a Cr VI by EPA 7199	85		75-125			0.20 U	0.20 U	0 (1)	20

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Quality Control Summary

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11145621201A	Sample number(s): 6292030-6292037,6292039-6292041					UNSPK: 6292036		BKG: 6292036	
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11145621202A	Sample number(s): 6292030-6292037,6292039-6292041					UNSPK: 6292036		BKG: 6292036	
11a Anions by 300.0 - Fluoride	112		80-120			16.5	16.9	2	20
Batch number: 11144039401A	Sample number(s): 6292030-6292036,6292039-6292041					BKG: 6292036			
18a pH by 9045C						8.49	8.50	0	3
Batch number: 11147162402A	Sample number(s): 6292030-6292033,6292036-6292041					BKG: 6292036			
28a Moisture Content by 160.3						9.5	8.9	7	20
Moisture Content by 160.3						9.5	8.9	7	20
Moisture Content by 160.3						9.5	8.9	7	20
Batch number: 11160162402A	Sample number(s): 6292034-6292035					BKG: P296047			
Moisture Content by 160.3						12.9	12.9	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111442AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6292030	101	102	99	94
6292032	100	101	99	93
6292034	99	99	99	92
6292036	101	103	97	94
6292037	100	99	102	98
6292038	103	106	100	100
6292041	100	100	98	94
Blank	100	101	98	94
LCS	102	101	100	99
MS	100	99	102	98
MSD	103	106	100	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111432AA

	Toluene-d8
6292030	97
6292032	98
6292034	98
6292036	98
6292037	98
6292038	98

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Surrogate Quality Control

6292041	98
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98
Limits:	70-130

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11141SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6292030	82	84	82	69	76	84
6292031	84	85	73	72	77	86
6292032	78	79	55	66	70	81
6292033	78	81	55	68	74	84
6292034	66	68	46	57	60	67
6292035	80	83	51	68	73	86
6292036	73	76	80	69	76	74
6292037	86	89	91	80	88	85
6292038	81	84	87	77	83	79
6292040	73	78	40	64	68	79
6292041	79	83	44	67	73	83
Blank	80	84	85	79	86	79
LCS	79	82	82	74	81	75
MS	86	89	91	80	88	85
MSD	81	84	87	77	83	79
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11141SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6292034	97	82	92
6292035	104	95	101
6292036	100	86	93
6292037	113	105	98
6292038	31*	31*	30*
6292041	89	77	89
Blank	106	94	108
LCS	98	92	97
MS	113	105	98
MSD	31*	31*	30*
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11146SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6292030	103	89	85
6292031	106	92	92
6292032	107	92	92
6292033	103	89	93
6292040	107	76	97

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Surrogate Quality Control

Blank	103	93	100
LCS	112	100	104
MS	106	95	95
MSD	109	96	96
Limits:	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111440020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6292030	93	77
6292031	88	74
6292032	81	76
6292033	89	70
6292034	91	79
6292035	91	91
6292036	98	78
6292037	105	91
6292038	98	91
6292040	95	93
6292041	98	90
Blank	111	101
LCS	97	91
LCSD	107	101
MS	105	91
MSD	98	91
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111450004A

	2-Nitro-m-xylene
6292034	132
6292035	120
Blank	136
LCS	123
LCSD	32*
MS	115
MSD	116
Limits:	80-146

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1247624 6292030-42

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-069-SA5DN-SB-4.5	05.18.11	0915	SOIL	NONE	4-Encores										X	X											
SL-069-SA5DN-SB-4.0-5.0	05.18.11	0918	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-069-SA5DN-SB-9.0-10.0	05.18.11	0924	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-070-SA5DN-SB-4.5	05.18.11	1045	SOIL	NONE	4-Encores										X	X											
SL-070-SA5DN-SB-4.0-5.0	05.18.11	1049	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-070-SA5DN-SB-9.0-10.0	05.18.11	1053	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-074-SA5DN-SB-4.5	05.18.11	1240	SOIL	NONE	4-Encores										X	X											
SL-074-SA5DN-SB-4.0-5.0	05.18.11	1244	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-074-SA5DN-SB-9.0-10.0	05.18.11	1248	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X								X					
SL-076-SA5DN-SB-4.5MS	05.18.11	1519	SOIL	NONE	12- Encores										X	X											MS/MSD sample
SL-076-SA5DN-SB-4.0-5.0MS	05.18.11	1515	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X														MS/MSD sample
SL-076-SA5DN-SB-9.0-10.0MS	05.18.11	1526	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
DUP-03-SA5DN-QC-051811	05.18.11	1522	SOIL	NONE	4-Encores										X	X											
DUP-03-SA5DN-QC-051811	05.18.11	1522	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-051811	05.18.11	1430	WATER	HCl	4-40 mL VOA VIALS	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		X	X											TRIP BLANK

Relinquished by: (*Signature*) Date/Time: 05/18/2011 / 1700

Received for Laboratory by: (*Signature*) 5/19/11 920

NLM 5/27/11

Received by: (*Signature*) Date/Time

Airbill No.(s):
8695 1441 7836; 8695 1441 7847
8695 1441 7858; 8695 1441 7869

Laboratory:
Lancaster Laboratories, Inc.

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, May 27, 2011 12:39 PM
To: 'Bloisa, Peggy'
Cc: Hartman, Pamela
Subject: RE: Question for you re: COC d. 5/18/11

No, perfect timing! I'm looking at that right now. I fixed that on the COC and the trip blank is checked off for the primary analyses. I crossed those out.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Friday, May 27, 2011 12:38 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: FW: Question for you re: COC d. 5/18/11

Hi Nicole – while I was putting together our tracking spreadsheet, I realized that I incorrectly indicated one of the subsurface sample numbers (highlighted in yellow on the attached COC) to indicate it was an MS sample.

If it's not too late, please remove the "MS" from the sample number SL-076-SA5DN-SB-9.0-10.0MS. It should read as SL-076-SA5DN-SB-9.0-10.0.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/19/2011
Group Number: 1247625
SDG: DX085
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-069-SA5DN-SB-4.0-5.0 Soil	6292043
SL-069-SA5DN-SB-9.0-10.0 Soil	6292044
SL-070-SA5DN-SB-4.0-5.0 Soil	6292045
SL-070-SA5DN-SB-9.0-10.0 Soil	6292046
SL-074-SA5DN-SB-4.0-5.0 Soil	6292047
SL-074-SA5DN-SB-9.0-10.0 Soil	6292048
SL-076-SA5DN-SB-4.0-5.0 Soil	6292049
SL-076-SA5DN-SB-4.0-5.0MS Soil	6292050
SL-076-SA5DN-SB-4.0-5.0MSD Soil	6292051
SL-076-SA5DN-SB-9.0-10.0 Soil	6292052
DUP-03-SA5DN-QC-051811 Soil	6292053

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292043
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0694 SDG#: DX085-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292043
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0694 SDG#: DX085-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0355	JB	0.0167	1.15	1
11031	12378-PeCDD	40321-76-4	0.0920	JB	0.0217	5.77	1
11031	123478-HxCDD	39227-28-6	0.0486	JBQ	0.0152	5.77	1
11031	123678-HxCDD	57653-85-7	0.245	JBQ	0.0167	5.77	1
11031	123789-HxCDD	19408-74-3	0.430	JB	0.0156	5.77	1
11031	1234678-HpCDD	35822-46-9	0.297	JB	0.0177	5.77	1
11031	OCDD	3268-87-9	0.893	JBQ	0.0136	11.5	1
11031	2378-TCDF	51207-31-9	0.0167	U	0.0167	1.15	1
11031	12378-PeCDF	57117-41-6	0.121	JBQ	0.0105	5.77	1
11031	23478-PeCDF	57117-31-4	0.127	JB	0.0101	5.77	1
11031	123478-HxCDF	70648-26-9	0.0853	JBQ	0.0137	5.77	1
11031	123678-HxCDF	57117-44-9	0.0798	JBQ	0.0124	5.77	1
11031	123789-HxCDF	72918-21-9	0.455	JB	0.0151	5.77	1
11031	234678-HxCDF	60851-34-5	0.0829	JB	0.0122	5.77	1
11031	1234678-HpCDF	67562-39-4	0.193	JB	0.00674	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0740	JB	0.00942	5.77	1
11031	OCDF	39001-02-0	0.238	JB	0.0202	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292043
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0694 SDG#: DX085-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-069-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292043
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:18

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0694 SDG#: DX085-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 03:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292044
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0699 SDG#: DX085-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292044
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0699 SDG#: DX085-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0472 JB	0.0257	1.14	1
11031	12378-PeCDD	40321-76-4	0.111 JBQ	0.0253	5.71	1
11031	123478-HxCDD	39227-28-6	0.0645 JBQ	0.0197	5.71	1
11031	123678-HxCDD	57653-85-7	0.0987 JB	0.0214	5.71	1
11031	123789-HxCDD	19408-74-3	0.133 JB	0.0207	5.71	1
11031	1234678-HpCDD	35822-46-9	0.308 JB	0.0233	5.71	1
11031	OCDD	3268-87-9	0.708 JB	0.0202	11.4	1
11031	2378-TCDF	51207-31-9	0.0288 JBQ	0.0242	1.14	1
11031	12378-PeCDF	57117-41-6	0.108 JB	0.0134	5.71	1
11031	23478-PeCDF	57117-31-4	0.116 JB	0.0131	5.71	1
11031	123478-HxCDF	70648-26-9	0.0881 JBQ	0.0165	5.71	1
11031	123678-HxCDF	57117-44-9	0.0788 JBQ	0.0149	5.71	1
11031	123789-HxCDF	72918-21-9	0.157 JB	0.0194	5.71	1
11031	234678-HxCDF	60851-34-5	0.120 JB	0.0157	5.71	1
11031	1234678-HpCDF	67562-39-4	0.203 JB	0.0109	5.71	1
11031	1234789-HpCDF	55673-89-7	0.117 JBQ	0.0166	5.71	1
11031	OCDF	39001-02-0	0.255 JBQ	0.0264	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-069-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292044
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0699 SDG#: DX085-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-069-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292044
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 09:24

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0699 SDG#: DX085-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 04:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292045
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0704 SDG#: DX085-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292045
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0704 SDG#: DX085-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0221 U	0.0221	1.13	1
11031	12378-PeCDD	40321-76-4	0.0782 JBQ	0.0243	5.65	1
11031	123478-HxCDD	39227-28-6	0.0630 JBQ	0.0195	5.65	1
11031	123678-HxCDD	57653-85-7	0.189 JB	0.0202	5.65	1
11031	123789-HxCDD	19408-74-3	0.308 JB	0.0190	5.65	1
11031	1234678-HpCDD	35822-46-9	0.256 JB	0.0220	5.65	1
11031	OCDD	3268-87-9	0.831 JB	0.0200	11.3	1
11031	2378-TCDF	51207-31-9	0.0214 U	0.0214	1.13	1
11031	12378-PeCDF	57117-41-6	0.0948 JBQ	0.0136	5.65	1
11031	23478-PeCDF	57117-31-4	0.128 JB	0.0128	5.65	1
11031	123478-HxCDF	70648-26-9	0.0815 JBQ	0.0164	5.65	1
11031	123678-HxCDF	57117-44-9	0.0862 JB	0.0143	5.65	1
11031	123789-HxCDF	72918-21-9	0.310 JBQ	0.0195	5.65	1
11031	234678-HxCDF	60851-34-5	0.102 JBQ	0.0152	5.65	1
11031	1234678-HpCDF	67562-39-4	0.165 JB	0.0104	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0498 JB	0.0142	5.65	1
11031	OCDF	39001-02-0	0.182 JBQ	0.0236	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292045
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0704 SDG#: DX085-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292045
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:49

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0704 SDG#: DX085-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 05:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292046
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0709 SDG#: DX085-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292046
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0709 SDG#: DX085-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0302 JBQ	0.0223	1.15	1
11031	12378-PeCDD	40321-76-4	0.0873 JB	0.0202	5.74	1
11031	123478-HxCDD	39227-28-6	0.0506 JBQ	0.0191	5.74	1
11031	123678-HxCDD	57653-85-7	0.0978 JB	0.0203	5.74	1
11031	123789-HxCDD	19408-74-3	0.0869 JB	0.0190	5.74	1
11031	1234678-HpCDD	35822-46-9	0.273 JB	0.0200	5.74	1
11031	OCDD	3268-87-9	0.837 JB	0.0182	11.5	1
11031	2378-TCDF	51207-31-9	0.0209 U	0.0209	1.15	1
11031	12378-PeCDF	57117-41-6	0.0790 JB	0.0127	5.74	1
11031	23478-PeCDF	57117-31-4	0.130 JBQ	0.0130	5.74	1
11031	123478-HxCDF	70648-26-9	0.0792 JB	0.0148	5.74	1
11031	123678-HxCDF	57117-44-9	0.0886 JBQ	0.0129	5.74	1
11031	123789-HxCDF	72918-21-9	0.0873 JB	0.0176	5.74	1
11031	234678-HxCDF	60851-34-5	0.105 JB	0.0142	5.74	1
11031	1234678-HpCDF	67562-39-4	0.168 JB	0.00934	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0994 JB	0.0143	5.74	1
11031	OCDF	39001-02-0	0.215 JBQ	0.0224	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292046
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0709 SDG#: DX085-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-070-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292046
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 10:53

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0709 SDG#: DX085-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 06:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292047
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX085-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292047
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX085-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0413	U	0.0413	1.12	1
11031	12378-PeCDD	40321-76-4	0.134	JB	0.0373	5.59	1
11031	123478-HxCDD	39227-28-6	0.115	JBQ	0.0322	5.59	1
11031	123678-HxCDD	57653-85-7	0.279	JB	0.0345	5.59	1
11031	123789-HxCDD	19408-74-3	0.400	JB	0.0340	5.59	1
11031	1234678-HpCDD	35822-46-9	0.377	JBQ	0.0316	5.59	1
11031	OCDD	3268-87-9	1.29	JB	0.0285	11.2	1
11031	2378-TCDF	51207-31-9	0.0491	JBQ	0.0381	1.12	1
11031	12378-PeCDF	57117-41-6	0.187	JBQ	0.0214	5.59	1
11031	23478-PeCDF	57117-31-4	0.210	JBQ	0.0219	5.59	1
11031	123478-HxCDF	70648-26-9	0.141	JB	0.0267	5.59	1
11031	123678-HxCDF	57117-44-9	0.127	JB	0.0205	5.59	1
11031	123789-HxCDF	72918-21-9	0.474	JB	0.0342	5.59	1
11031	234678-HxCDF	60851-34-5	0.164	JB	0.0227	5.59	1
11031	1234678-HpCDF	67562-39-4	0.168	JB	0.0136	5.59	1
11031	1234789-HpCDF	55673-89-7	0.169	JB	0.0268	5.59	1
11031	OCDF	39001-02-0	0.220	JBQ	0.0513	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	46	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	56	32 - 141
13C12-123678-HxCDD	55	28 - 130
13C12-123789-HxCDD	55	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	42	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	39	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	41	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292047
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX085-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292047
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:44

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0744 SDG#: DX085-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 07:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292048
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0749 SDG#: DX085-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292048
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0749 SDG#: DX085-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0836	JB	0.0303	1.13	1
11031	12378-PeCDD	40321-76-4	0.231	JBQ	0.0289	5.67	1
11031	123478-HxCDD	39227-28-6	0.193	JB	0.0238	5.67	1
11031	123678-HxCDD	57653-85-7	0.166	JB	0.0248	5.67	1
11031	123789-HxCDD	19408-74-3	0.200	JB	0.0232	5.67	1
11031	1234678-HpCDD	35822-46-9	0.345	JBQ	0.0247	5.67	1
11031	OCDD	3268-87-9	0.875	JB	0.0207	11.3	1
11031	2378-TCDF	51207-31-9	0.0533	JB	0.0333	1.13	1
11031	12378-PeCDF	57117-41-6	0.267	JBQ	0.0178	5.67	1
11031	23478-PeCDF	57117-31-4	0.245	JBQ	0.0184	5.67	1
11031	123478-HxCDF	70648-26-9	0.212	JBQ	0.0200	5.67	1
11031	123678-HxCDF	57117-44-9	0.218	JB	0.0156	5.67	1
11031	123789-HxCDF	72918-21-9	0.243	JBQ	0.0263	5.67	1
11031	234678-HxCDF	60851-34-5	0.211	JB	0.0188	5.67	1
11031	1234678-HpCDF	67562-39-4	0.237	JB	0.00932	5.67	1
11031	1234789-HpCDF	55673-89-7	0.129	JB	0.0184	5.67	1
11031	OCDF	39001-02-0	0.333	JB	0.0351	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292048
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0749 SDG#: DX085-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-074-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292048
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 12:48

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0749 SDG#: DX085-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 08:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292049
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292049
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.112	JB	0.0248	1.09	1
11031	12378-PeCDD	40321-76-4	0.510	JBQ	0.0236	5.45	1
11031	123478-HxCDD	39227-28-6	0.283	JB	0.0270	5.45	1
11031	123678-HxCDD	57653-85-7	0.474	JB	0.0281	5.45	1
11031	123789-HxCDD	19408-74-3	0.493	JB	0.0273	5.45	1
11031	1234678-HpCDD	35822-46-9	5.12	JB	0.0344	5.45	1
11031	OCDD	3268-87-9	78.7	B	0.0328	10.9	1
11031	2378-TCDF	51207-31-9	0.194	JB	0.0294	1.09	1
11031	12378-PeCDF	57117-41-6	0.571	JB	0.0149	5.45	1
11031	23478-PeCDF	57117-31-4	0.485	JB	0.0162	5.45	1
11031	123478-HxCDF	70648-26-9	0.422	JB	0.0240	5.45	1
11031	123678-HxCDF	57117-44-9	0.426	JB	0.0183	5.45	1
11031	123789-HxCDF	72918-21-9	0.388	JB	0.0267	5.45	1
11031	234678-HxCDF	60851-34-5	0.307	JBQ	0.0186	5.45	1
11031	1234678-HpCDF	67562-39-4	0.832	JB	0.0123	5.45	1
11031	1234789-HpCDF	55673-89-7	0.191	JB	0.0241	5.45	1
11031	OCDF	39001-02-0	1.63	JB	0.0312	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292049
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292049
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 09:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292050
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292050
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.3	B	0.0449	1.09	1
11031	12378-PeCDD	40321-76-4	109	B	0.0503	5.47	1
11031	123478-HxCDD	39227-28-6	110	B	0.0557	5.47	1
11031	123678-HxCDD	57653-85-7	112	B	0.0594	5.47	1
11031	123789-HxCDD	19408-74-3	112	B	0.0562	5.47	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0503	5.47	1
11031	OCDD	3268-87-9	223	B	0.0383	10.9	1
11031	2378-TCDF	51207-31-9	25.1	B	0.0724	1.09	1
11031	12378-PeCDF	57117-41-6	114	B	0.0330	5.47	1
11031	23478-PeCDF	57117-31-4	111	B	0.0358	5.47	1
11031	123478-HxCDF	70648-26-9	109	B	0.0717	5.47	1
11031	123678-HxCDF	57117-44-9	108	B	0.0552	5.47	1
11031	123789-HxCDF	72918-21-9	113	B	0.0954	5.47	1
11031	234678-HxCDF	60851-34-5	113	B	0.0615	5.47	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0372	5.47	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0849	5.47	1
11031	OCDF	39001-02-0	222	B	0.0561	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292050
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292050
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 13:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292051
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292051
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1	B	0.0438	1.10	1
11031	12378-PeCDD	40321-76-4	111	B	0.0591	5.48	1
11031	123478-HxCDD	39227-28-6	109	B	0.0522	5.48	1
11031	123678-HxCDD	57653-85-7	111	B	0.0561	5.48	1
11031	123789-HxCDD	19408-74-3	111	B	0.0534	5.48	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0501	5.48	1
11031	OCDD	3268-87-9	241	B	0.0461	11.0	1
11031	2378-TCDF	51207-31-9	24.2	B	0.0667	1.10	1
11031	12378-PeCDF	57117-41-6	112	B	0.0399	5.48	1
11031	23478-PeCDF	57117-31-4	111	B	0.0444	5.48	1
11031	123478-HxCDF	70648-26-9	109	B	0.0802	5.48	1
11031	123678-HxCDF	57117-44-9	108	B	0.0611	5.48	1
11031	123789-HxCDF	72918-21-9	110	B	0.103	5.48	1
11031	234678-HxCDF	60851-34-5	112	B	0.0718	5.48	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0388	5.48	1
11031	1234789-HpCDF	55673-89-7	111	B	0.0808	5.48	1
11031	OCDF	39001-02-0	220	B	0.0611	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA5DN-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292051
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-076-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-4.0-5.0

LLI Sample # SW 6292051
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:15

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0764 SDG#: DX085-07MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 14:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292052
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0769 SDG#: DX085-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292052
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0769 SDG#: DX085-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.130	JB	0.0272	1.13	1
11031	12378-PeCDD	40321-76-4	0.458	JB	0.0304	5.65	1
11031	123478-HxCDD	39227-28-6	0.390	JB	0.0267	5.65	1
11031	123678-HxCDD	57653-85-7	0.598	JB	0.0282	5.65	1
11031	123789-HxCDD	19408-74-3	0.506	JB	0.0272	5.65	1
11031	1234678-HpCDD	35822-46-9	6.91	B	0.0426	5.65	1
11031	OCDD	3268-87-9	161	B	0.0426	11.3	1
11031	2378-TCDF	51207-31-9	0.0587	JB	0.0319	1.13	1
11031	12378-PeCDF	57117-41-6	0.488	JBQ	0.0162	5.65	1
11031	23478-PeCDF	57117-31-4	0.443	JB	0.0175	5.65	1
11031	123478-HxCDF	70648-26-9	0.435	JB	0.0297	5.65	1
11031	123678-HxCDF	57117-44-9	0.405	JB	0.0231	5.65	1
11031	123789-HxCDF	72918-21-9	0.498	JB	0.0398	5.65	1
11031	234678-HxCDF	60851-34-5	0.422	JB	0.0275	5.65	1
11031	1234678-HpCDF	67562-39-4	1.14	JB	0.0128	5.65	1
11031	1234789-HpCDF	55673-89-7	0.424	JB	0.0284	5.65	1
11031	OCDF	39001-02-0	3.29	JB	0.0330	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	55	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	45	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-076-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292052
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0769 SDG#: DX085-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-076-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5DN-SB-9.0-10.0

LLI Sample # SW 6292052
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:26

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0769 SDG#: DX085-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 14:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292053
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX085-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292053
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX085-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0729	JBQ	0.0374	1.10	1
11031	12378-PeCDD	40321-76-4	0.305	JB	0.0399	5.51	1
11031	123478-HxCDD	39227-28-6	0.185	JB	0.0271	5.51	1
11031	123678-HxCDD	57653-85-7	0.237	JB	0.0296	5.51	1
11031	123789-HxCDD	19408-74-3	0.302	JB	0.0292	5.51	1
11031	1234678-HpCDD	35822-46-9	1.56	JB	0.0390	5.51	1
11031	OCDD	3268-87-9	23.6	B	0.0329	11.0	1
11031	2378-TCDF	51207-31-9	0.0775	JB	0.0425	1.10	1
11031	12378-PeCDF	57117-41-6	0.274	JB	0.0211	5.51	1
11031	23478-PeCDF	57117-31-4	0.261	JB	0.0207	5.51	1
11031	123478-HxCDF	70648-26-9	0.233	JBQ	0.0313	5.51	1
11031	123678-HxCDF	57117-44-9	0.220	JB	0.0242	5.51	1
11031	123789-HxCDF	72918-21-9	0.227	JB	0.0331	5.51	1
11031	234678-HxCDF	60851-34-5	0.300	JBQ	0.0249	5.51	1
11031	1234678-HpCDF	67562-39-4	0.348	JB	0.0140	5.51	1
11031	1234789-HpCDF	55673-89-7	0.163	JB	0.0287	5.51	1
11031	OCDF	39001-02-0	0.807	JB	0.0500	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	46	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	54	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292053
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX085-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-03-SA5DN-QC-051811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-03-SA5DN-QC-051811

LLI Sample # SW 6292053
LLI Group # 1247625
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/18/2011 15:22

Submitted: 05/19/2011 09:20
Reported: 06/10/2011 09:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX085-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 15:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247625
Reported: 06/10/11 at 09:20 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11147162402A	Sample number(s): 6292043-6292046,6292049-6292053								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162402A	Sample number(s): 6292047-6292048								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11148001	Sample number(s): 6292043-6292053								
2378-TCDD	0.0875 J	0.0217	1.00	ng/kg	97		67-158		
12378-PeCDD	0.107 J	0.0205	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0860 J	0.0153	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0968 J	0.0163	5.00	ng/kg	104		76-134		
123789-HxCDD	0.109 J	0.0156	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.291 J	0.0176	5.00	ng/kg	100		70-140		
OCDD	0.555 J	0.0115	10.0	ng/kg	100		78-144		
2378-TCDF	0.0262 J	0.0261	1.00	ng/kg	114		75-158		
12378-PeCDF	0.110 J	0.0126	5.00	ng/kg	101		80-134		
23478-PeCDF	0.168 J	0.0129	5.00	ng/kg	102		68-160		
123478-HxCDF	0.149 J	0.0170	5.00	ng/kg	102		72-134		
123678-HxCDF	0.118 J	0.0128	5.00	ng/kg	100		84-130		
123789-HxCDF	0.230 J	0.0228	5.00	ng/kg	100		78-130		
234678-HxCDF	0.165 J	0.0155	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.196 J	0.00630	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.166 J	0.0152	5.00	ng/kg	102		78-138		
OCDF	0.516 J	0.0284	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11147162402A	Sample number(s): 6292043-6292046,6292049-6292053					BKG: P292036			
Moisture Content by 160.3						9.5	8.9	7	20
Batch number: 11160162402A	Sample number(s): 6292047-6292048					BKG: P296047			
Moisture Content by 160.3						12.9	12.9	0	20
Batch number: 11148001	Sample number(s): 6292043-6292053					UNSPK: 6292049			
2378-TCDD	97	96	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247625
Reported: 06/10/11 at 09:20 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	99	101	70-142	2	25				
123478-HxCDD	100	99	70-164	0	25				
123678-HxCDD	102	101	76-134	1	25				
123789-HxCDD	102	101	64-162	0	25				
1234678-HpCDD	97	98	70-140	2	25				
OCDD	66*	74*	78-144	8	25				
2378-TCDF	114	110	75-158	3	25				
12378-PeCDF	103	101	80-134	2	25				
23478-PeCDF	101	101	68-160	0	25				
123478-HxCDF	99	99	72-134	0	25				
123678-HxCDF	99	98	84-130	1	25				
123789-HxCDF	103	100	78-130	2	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	99	97	82-122	2	25				
1234789-HpCDF	103	101	78-138	2	25				
OCDF	101	100	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11148001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6292043	74	78	71	75	71	71
6292044	65	68	65	70	64	63
6292045	70	76	66	70	65	61
6292046	74	80	70	76	69	63
6292047	46	52	45	56	49	39
6292048	61	68	56	69	59	49
6292049	64	67	52	67	63	53
6292050	62	66	63	79	68	53
6292051	63	65	60	75	64	51
6292052	55	59	53	66	57	45
6292053	52	56	47	58	54	49
Blank	61	61	56	73	60	48
MS	62	66	63	79	68	53
MSD	63	65	60	75	64	51
OPR	57	57	52	67	57	49
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6292043	83	68	64	85	78	74
6292044	78	60	57	79	72	67
6292045	73	64	60	85	78	66

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247625
Reported: 06/10/11 at 09:20 AM

Surrogate Quality Control

6292046	87	67	63	85	86	73
6292047	71	41	38	71	61	56
6292048	86	50	48	80	76	66
6292049	91	55	51	78	76	72
6292050	106	56	53	87	78	81
6292051	99	53	50	87	75	75
6292052	88	47	45	71	67	65
6292053	80	45	41	77	64	63
Blank	98	48	45	89	74	73
MS	106	56	53	87	78	81
MSD	99	53	50	87	75	75
OPR	92	46	44	79	67	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6292043	72	75	75	72	71	81
6292044	67	67	71	66	65	75
6292045	66	67	70	66	68	78
6292046	73	74	79	76	70	87
6292047	55	55	59	58	42	58
6292048	68	69	71	69	56	76
6292049	71	72	75	74	58	78
6292050	80	81	85	86	54	77
6292051	75	75	79	78	56	77
6292052	67	66	71	69	50	69
6292053	63	64	67	65	46	63
Blank	73	74	78	79	49	71
MS	80	81	85	86	54	77
MSD	75	75	79	78	56	77
OPR	68	68	73	73	49	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 12477625 6292043-53

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-069-SA5DN-SB-4.5	05.18.11	0915	SOIL	NONE	4-Encores										X	X											
SL-069-SA5DN-SB-4.0-5.0	05.18.11	0918	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-069-SA5DN-SB-9.0-10.0	05.18.11	0924	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-070-SA5DN-SB-4.5	05.18.11	1045	SOIL	NONE	4-Encores										X	X											
SL-070-SA5DN-SB-4.0-5.0	05.18.11	1049	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-070-SA5DN-SB-9.0-10.0	05.18.11	1053	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-074-SA5DN-SB-4.5	05.18.11	1240	SOIL	NONE	4-Encores										X	X											
SL-074-SA5DN-SB-4.0-5.0	05.18.11	1244	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-074-SA5DN-SB-9.0-10.0	05.18.11	1248	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X								X					
SL-076-SA5DN-SB-4.5MS	05.18.11	1519	SOIL	NONE	12- Encores										X	X											MS/MSD sample
SL-076-SA5DN-SB-4.0-5.0MS	05.18.11	1515	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X														MS/MSD sample
SL-076-SA5DN-SB-9.0-10.0MS	05.18.11	1526	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
DUP-03-SA5DN-QC-051811 NLA	05.18.11	1522	SOIL	NONE	4-Encores										X	X											
DUP-03-SA5DN-QC-051811 5127/11	05.18.11	1522	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-051811	05.18.11	1430	WATER	HCl	4-40 mL VOA VIALS	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		X	X											TRIP BLANK

NLA 5127/11

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/18/2011 / 1700	5/19/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1441 7836; 8695 1441 7847 8695 1441 7858; 8695 1441 7869	

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, May 27, 2011 12:39 PM
To: 'Bloisa, Peggy'
Cc: Hartman, Pamela
Subject: RE: Question for you re: COC d. 5/18/11

No, perfect timing! I'm looking at that right now. I fixed that on the COC and the trip blank is checked off for the primary analyses. I crossed those out.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Friday, May 27, 2011 12:38 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: FW: Question for you re: COC d. 5/18/11

Hi Nicole – while I was putting together our tracking spreadsheet, I realized that I incorrectly indicated one of the subsurface sample numbers (highlighted in yellow on the attached COC) to indicate it was an MS sample.

If it's not too late, please remove the "MS" from the sample number SL-076-SA5DN-SB-9.0-10.0MS. It should read as SL-076-SA5DN-SB-9.0-10.0.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/20/2011
Group Number: 1247820
SDG: DE156
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-066-SA5DN-SB-4.0-5.0 Soil	6293424
SL-066-SA5DN-SB-9.0-10.0 Soil	6293425
SL-067-SA5DN-SB-4.0-5.0 Soil	6293426
SL-067-SA5DN-SB-9.0-10.0 Soil	6293427
SL-079-SA5DN-SB-4.0-5.0 Soil	6293428
SL-079-SA5DN-SB-9.0-10.0 Soil	6293429
SL-080-SA5DN-SB-4.0-5.0 Soil	6293430
SL-080-SA5DN-SB-8.0-9.0 Soil	6293431
SL-082-SA5DN-SB-4.0-5.0 Soil	6293432
SL-206-SA5DN-SB-4.0-5.0 Soil	6293433
TB-051911 Water	6293434
EB03-SA5DN-SB-051911 Water	6293435
EB04-SA5DN-SS-051911 Water	6293436

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15601 SDG#: DE156-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.5		7.5	9.0		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.98
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.98
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.98
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.98
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.98
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.98
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.98
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.98
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.98
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.98
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.98
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.98
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.98
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.98
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.98
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.98
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.98
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.98
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.98
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.98
06192	Methylene Chloride	75-09-2	0.78	J	0.27	4.5		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.98

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15601 SDG#: DE156-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.98
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.98
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.98
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.98
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	26.4	J	19.0	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15601 SDG#: DE156-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1

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Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15601 SDG#: DE156-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.82
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15601 SDG#: DE156-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.2	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1

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SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15601 SDG#: DE156-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,900		5.59	22.2		1
07914	Boron	7440-42-8	0.990	U	0.990	5.56		1
01650	Calcium	7440-70-2	8,050		6.82	22.2		1
01654	Iron	7439-89-6	35,300		10.5	44.5		2
01656	Lithium	7439-93-2	28.5		0.24	2.2		1
01657	Magnesium	7439-95-4	8,620		2.82	11.1		1
06958	Manganese	7439-96-5	992		0.0867	0.556		1
10145	Phosphorus	7723-14-0	289		0.623	11.1		1
01662	Potassium	7440-09-7	4,230		20.0	55.6		1
01667	Sodium	7440-23-5	735		41.5	111		1
07968	Strontium	7440-24-6	50.6		0.0690	0.556		1
06969	Tin	7440-31-5	3.04	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,260		0.423	1.11		1
10146	Zirconium	7440-67-7	7.72		0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.318		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.69		0.0898	0.449		2
06126	Barium	7440-39-3	177		0.121	0.449		2
06127	Beryllium	7440-41-7	1.22		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.426		0.0449	0.112		2
06131	Chromium	7440-47-3	45.7		0.135	0.449		2
06132	Cobalt	7440-48-4	18.4		0.0225	0.112		2
06133	Copper	7440-50-8	22.1		0.0741	0.449		2
06135	Lead	7439-92-1	16.6		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.527		0.0562	0.112		2
06139	Nickel	7440-02-0	32.5		0.112	0.449		2
06141	Selenium	7782-49-2	0.175	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0591	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.364		0.0340	0.113		2
06148	Vanadium	7440-62-2	83.9		0.0247	0.112		2
06149	Zinc	7440-66-6	96.1		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	23.1		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1

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Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

15601 SDG#: DE156-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-066-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 20:00	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 20:19	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 16:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:36	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 16:53	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 22:13	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 14:00	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 21:09	Gregory J Drahovsky	1

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Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15601 SDG#: DE156-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 18:42	Elizabeth J Marin	26.82
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 16:52	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 08:46	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111510009A	06/01/2011 19:35	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 22:47	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 17:20	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 13:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 12:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 07:15	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:48	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 14:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293424
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15601 SDG#: DE156-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 14:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 14:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 14:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 15:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11145621202B	05/26/2011 15:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 06:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 20:17	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201A	05/25/2011 19:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201A	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15602 SDG#: DE156-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		8.8	10		1.1
06192	Benzene	71-43-2	0.13	U	0.13	5.2		1.1
06192	Bromobenzene	108-86-1	0.17	U	0.17	5.2		1.1
06192	Bromochloromethane	74-97-5	0.43	U	0.43	5.2		1.1
06192	Bromodichloromethane	75-27-4	0.11	U	0.11	5.2		1.1
06192	Bromoform	75-25-2	0.53	U	0.53	5.2		1.1
06192	Bromomethane	74-83-9	0.33	U	0.33	5.2		1.1
06192	2-Butanone	78-93-3	1.6	U	1.6	10		1.1
06192	n-Butylbenzene	104-51-8	0.16	U	0.16	5.2		1.1
06192	sec-Butylbenzene	135-98-8	0.08	U	0.08	5.2		1.1
06192	tert-Butylbenzene	98-06-6	0.21	U	0.21	5.2		1.1
06192	Carbon Tetrachloride	56-23-5	0.18	U	0.18	5.2		1.1
06192	Chlorobenzene	108-90-7	0.14	U	0.14	5.2		1.1
06192	Chloroethane	75-00-3	0.17	U	0.17	5.2		1.1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.39	U	0.39	5.2		1.1
06192	Chloroform	67-66-3	0.16	U	0.16	5.2		1.1
06192	Chloromethane	74-87-3	0.43	U	0.43	5.2		1.1
06192	2-Chlorotoluene	95-49-8	0.18	U	0.18	5.2		1.1
06192	4-Chlorotoluene	106-43-4	0.18	U	0.18	5.2		1.1
06192	Chlorotrifluoroethene	79-38-9	0.66	U	0.66	6.6		1.1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.92	U	0.92	5.2		1.1
06192	Dibromochloromethane	124-48-1	0.26	U	0.26	5.2		1.1
06192	1,2-Dibromoethane	106-93-4	0.22	U	0.22	5.2		1.1
06192	Dibromomethane	74-95-3	0.32	U	0.32	5.2		1.1
06192	1,2-Dichlorobenzene	95-50-1	0.12	U	0.12	5.2		1.1
06192	1,3-Dichlorobenzene	541-73-1	0.16	U	0.16	5.2		1.1
06192	1,4-Dichlorobenzene	106-46-7	0.21	U	0.21	5.2		1.1
06192	Dichlorodifluoromethane	75-71-8	0.16	U	0.16	5.2		1.1
06192	1,1-Dichloroethane	75-34-3	0.13	U	0.13	5.2		1.1
06192	1,2-Dichloroethane	107-06-2	0.20	U	0.20	5.2		1.1
06192	1,1-Dichloroethene	75-35-4	0.51	U	0.51	5.2		1.1
06192	cis-1,2-Dichloroethene	156-59-2	0.25	U	0.25	5.2		1.1
06192	trans-1,2-Dichloroethene	156-60-5	0.16	U	0.16	5.2		1.1
06192	1,2-Dichloropropane	78-87-5	0.22	U	0.22	5.2		1.1
06192	1,3-Dichloropropane	142-28-9	0.11	U	0.11	5.2		1.1
06192	2,2-Dichloropropane	594-20-7	0.22	U	0.22	5.2		1.1
06192	1,1-Dichloropropene	563-58-6	0.17	U	0.17	5.2		1.1
06192	cis-1,3-Dichloropropene	10061-01-5	0.21	U	0.21	5.2		1.1
06192	trans-1,3-Dichloropropene	10061-02-6	0.22	U	0.22	5.2		1.1
06192	Ethylbenzene	100-41-4	0.08	U	0.08	5.2		1.1
06192	Freon 113	76-13-1	0.14	U	0.14	5.2		1.1
06192	Freon 133a	75-88-7	0.66	U	0.66	6.6		1.1
06192	Hexachlorobutadiene	87-68-3	0.18	U	0.18	5.2		1.1
06192	2-Hexanone	591-78-6	2.1	U	2.1	10		1.1
06192	Isopropylbenzene	98-82-8	0.08	U	0.08	5.2		1.1
06192	p-Isopropyltoluene	99-87-6	0.14	U	0.14	5.2		1.1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.28	U	0.28	5.2		1.1
06192	4-Methyl-2-pentanone	108-10-1	0.51	U	0.51	10		1.1
06192	Methylene Chloride	75-09-2	3.6	J	0.32	5.2		1.1
06192	n-Propylbenzene	103-65-1	0.09	U	0.09	5.2		1.1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15602 SDG#: DE156-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.13	U	0.13	5.2		1.1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14	U	0.14	5.2		1.1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.30	U	0.30	5.2		1.1
06192	Tetrachloroethene	127-18-4	0.26	U	0.26	5.2		1.1
06192	Toluene	108-88-3	0.11	U	0.11	5.2		1.1
06192	1,2,3-Trichlorobenzene	87-61-6	0.18	U	0.18	5.2		1.1
06192	1,2,4-Trichlorobenzene	120-82-1	0.24	U	0.24	5.2		1.1
06192	1,1,1-Trichloroethane	71-55-6	0.26	U	0.26	5.2		1.1
06192	1,1,2-Trichloroethane	79-00-5	0.35	U	0.35	5.2		1.1
06192	Trichloroethene	79-01-6	0.20	U	0.20	5.2		1.1
06192	Trichlorofluoromethane	75-69-4	0.38	U	0.38	5.2		1.1
06192	1,2,3-Trichloropropane	96-18-4	0.43	U	0.43	5.2		1.1
06192	1,2,4-Trimethylbenzene	95-63-6	0.53	U	0.53	5.2		1.1
06192	1,3,5-Trimethylbenzene	108-67-8	0.13	U	0.13	5.2		1.1
06192	Vinyl Chloride	75-01-4	0.26	U	0.26	5.2		1.1
06192	m+p-Xylene	179601-23-1	0.22	U	0.22	5.2		1.1
06192	o-Xylene	95-47-6	0.22	U	0.22	5.2		1.1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	211	J	198	396		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15602 SDG#: DE156-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15602 SDG#: DE156-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.64
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1

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Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15602 SDG#: DE156-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.76	J	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1

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Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15602 SDG#: DE156-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,200		6.00	23.9		1
07914	Boron	7440-42-8	1.06	U	1.06	5.97		1
01650	Calcium	7440-70-2	12,700		7.32	23.9		1
01654	Iron	7439-89-6	32,900		11.2	47.7		2
01656	Lithium	7439-93-2	34.4		0.26	2.4		1
01657	Magnesium	7439-95-4	8,070		3.03	11.9		1
06958	Manganese	7439-96-5	278		0.0931	0.597		1
10145	Phosphorus	7723-14-0	245		0.668	11.9		1
01662	Potassium	7440-09-7	4,110		21.5	59.7		1
01667	Sodium	7440-23-5	990		44.5	119		1
07968	Strontium	7440-24-6	51.4		0.0740	0.597		1
06969	Tin	7440-31-5	3.02	J	1.19	11.9		1
06970	Titanium	7440-32-6	933		0.453	1.19		1
10146	Zirconium	7440-67-7	5.85	J	1.00	5.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.300		0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.32		0.0918	0.459		2
06126	Barium	7440-39-3	715		0.620	2.29		10
06127	Beryllium	7440-41-7	1.08		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.378		0.0459	0.115		2
06131	Chromium	7440-47-3	55.1		0.138	0.459		2
06132	Cobalt	7440-48-4	9.13		0.0229	0.115		2
06133	Copper	7440-50-8	23.4		0.0757	0.459		2
06135	Lead	7439-92-1	13.2		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.248		0.0574	0.115		2
06139	Nickel	7440-02-0	28.9		0.115	0.459		2
06141	Selenium	7782-49-2	0.0459	U	0.0459	0.459		2
06142	Silver	7440-22-4	0.0852	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.321		0.0348	0.116		2
06148	Vanadium	7440-62-2	66.6		0.0252	0.115		2
06149	Zinc	7440-66-6	96.8		0.643	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0199	J	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.4		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0		0.95	1.8		1

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Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

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Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15602 SDG#: DE156-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-066-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 20:22	Chelsea B Eastep	1.1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 20:39	Jason M Long	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:02	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:36	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 16:59	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	06/03/2011 11:34	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 14:25	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 21:41	Gregory J Drahovsky	1

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Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

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15602 SDG#: DE156-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 19:18	Elizabeth J Marin	22.64
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 16:58	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 09:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 19:54	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 23:06	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 17:45	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 13:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 12:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 05:01	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:52	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:31	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	06/01/2011 23:36	David K Beck	10
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2

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Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293425
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

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15602 SDG#: DE156-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 15:54	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11145621202B	05/26/2011 15:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 07:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 20:28	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		7.3	8.8		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.96
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.96
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.96
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.8		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.96
06192	Methylene Chloride	75-09-2	1.1	J	0.26	4.4		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.96

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Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.96
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.65
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1

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Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1

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Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15603 SDG#: DE156-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.72	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,400		5.72	22.8		1
07914	Boron	7440-42-8	1.01	U	1.01	5.69		1
01650	Calcium	7440-70-2	7,900		6.97	22.8		1
01654	Iron	7439-89-6	28,300		5.36	22.8		1
01656	Lithium	7439-93-2	27.8		0.25	2.3		1
01657	Magnesium	7439-95-4	5,910		2.89	11.4		1
06958	Manganese	7439-96-5	349		0.0887	0.569		1
10145	Phosphorus	7723-14-0	229		0.637	11.4		1
01662	Potassium	7440-09-7	2,920		20.5	56.9		1
01667	Sodium	7440-23-5	566		42.4	114		1
07968	Strontium	7440-24-6	42.7		0.0705	0.569		1
06969	Tin	7440-31-5	3.10	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,520		0.432	1.14		1
10146	Zirconium	7440-67-7	6.67		0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195	J	0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.74		0.0884	0.442		2
06126	Barium	7440-39-3	159		0.119	0.442		2
06127	Beryllium	7440-41-7	1.03		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.235		0.0442	0.110		2
06131	Chromium	7440-47-3	38.8		0.133	0.442		2
06132	Cobalt	7440-48-4	10.4		0.0221	0.110		2
06133	Copper	7440-50-8	16.4		0.0729	0.442		2
06135	Lead	7439-92-1	11.4		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.446		0.0552	0.110		2
06139	Nickel	7440-02-0	23.1		0.110	0.442		2
06141	Selenium	7782-49-2	0.0903	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0655	J	0.0133	0.110		2
06145	Thallium	7440-28-0	0.327		0.0331	0.110		2
06148	Vanadium	7440-62-2	74.0		0.0243	0.110		2
06149	Zinc	7440-66-6	68.1		0.619	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.0		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.91	1.7		1

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Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.46		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-067-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 20:44	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 20:58	Jason M Long	24.65
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 17:05	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 22:46	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 14:50	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 22:12	Gregory J Drahovsky	1

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Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 19:54	Elizabeth J Marin	24.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:04	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 10:11	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111510009A	06/01/2011 20:03	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 23:24	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 18:10	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 14:06	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 12:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 05:46	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:35	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 15:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2

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Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293426
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15603 SDG#: DE156-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 16:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11145621202B	05/26/2011 16:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 08:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 20:51	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15604 SDG#: DE156-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.9		6.8	8.2		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	3.3	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

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Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15604 SDG#: DE156-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		22.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.5	U	19.5	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15604 SDG#: DE156-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1

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Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15604 SDG#: DE156-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1

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Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15604 SDG#: DE156-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.65	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1

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Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

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14420 Albemarle Point Place
Suite 210
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15604 SDG#: DE156-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,800		5.71	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.67		1
01650	Calcium	7440-70-2	26,000		6.95	22.7		1
01654	Iron	7439-89-6	27,500		5.34	22.7		1
01656	Lithium	7439-93-2	26.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,700		2.88	11.3		1
06958	Manganese	7439-96-5	226		0.0885	0.567		1
10145	Phosphorus	7723-14-0	270		0.635	11.3		1
01662	Potassium	7440-09-7	3,130		20.4	56.7		1
01667	Sodium	7440-23-5	722		42.3	113		1
07968	Strontium	7440-24-6	64.5		0.0703	0.567		1
06969	Tin	7440-31-5	3.03	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,110		0.431	1.13		1
10146	Zirconium	7440-67-7	6.18		0.953	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.00		0.0916	0.458		2
06126	Barium	7440-39-3	128		0.124	0.458		2
06127	Beryllium	7440-41-7	1.05		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.235		0.0458	0.115		2
06131	Chromium	7440-47-3	44.9		0.137	0.458		2
06132	Cobalt	7440-48-4	7.15		0.0229	0.115		2
06133	Copper	7440-50-8	20.0		0.0756	0.458		2
06135	Lead	7439-92-1	11.0		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.178		0.0573	0.115		2
06139	Nickel	7440-02-0	25.0		0.115	0.458		2
06141	Selenium	7782-49-2	0.0458	U	0.0458	0.458		2
06142	Silver	7440-22-4	0.0591	J	0.0137	0.115		2
06145	Thallium	7440-28-0	0.305		0.0340	0.113		2
06148	Vanadium	7440-62-2	61.9		0.0252	0.115		2
06149	Zinc	7440-66-6	85.5		0.641	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0132	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.9		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15604 SDG#: DE156-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-067-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 21:06	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 21:18	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 17:10	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11141SLH026	05/25/2011 23:03	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 15:15	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/26/2011 10:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11141SLH026	05/23/2011 10:00	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15604 SDG#: DE156-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 20:31	Elizabeth J Marin	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:09	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 10:53	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 20:13	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	05/31/2011 23:43	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440028A	05/30/2011 18:35	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 14:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 13:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111430017A	05/25/2011 06:30	Melissa McDermott	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440028A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111430017A	05/23/2011 18:30	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 15:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2

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Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293427
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15604 SDG#: DE156-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 04:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 16:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11145621202B	05/26/2011 16:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 08:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 21:03	Ashley M Adams	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.4		6.8	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	0.88	J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.93
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1

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Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1

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Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.84	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,300		5.53	22.0		1
07914	Boron	7440-42-8	1.47	J	0.979	5.50		1
01650	Calcium	7440-70-2	7,440		6.75	22.0		1
01654	Iron	7439-89-6	31,900		10.4	44.0		2
01656	Lithium	7439-93-2	28.1		0.24	2.2		1
01657	Magnesium	7439-95-4	7,550		2.79	11.0		1
06958	Manganese	7439-96-5	368		0.0858	0.550		1
10145	Phosphorus	7723-14-0	297		0.616	11.0		1
01662	Potassium	7440-09-7	3,330		19.8	55.0		1
01667	Sodium	7440-23-5	697		41.0	110		1
07968	Strontium	7440-24-6	44.3		0.0682	0.550		1
06969	Tin	7440-31-5	3.08	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,310		0.418	1.10		1
10146	Zirconium	7440-67-7	7.78		0.924	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.295		0.0660	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.14		0.0880	0.440		2
06126	Barium	7440-39-3	140		0.297	1.10		5
06127	Beryllium	7440-41-7	1.22		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.471		0.0440	0.110		2
06131	Chromium	7440-47-3	46.1		0.132	0.440		2
06132	Cobalt	7440-48-4	20.9		0.0220	0.110		2
06133	Copper	7440-50-8	20.8		0.0726	0.440		2
06135	Lead	7439-92-1	17.8		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.529		0.0550	0.110		2
06139	Nickel	7440-02-0	32.5		0.110	0.440		2
06141	Selenium	7782-49-2	0.193	J	0.0440	0.440		2

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Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver		7440-22-4	0.0693 J	0.0132	0.110		2
06145	Thallium		7440-28-0	0.313	0.0321	0.107		2
06148	Vanadium		7440-62-2	84.2	0.0242	0.110		2
06149	Zinc		7440-66-6	90.1	0.616	3.30		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0186 J	0.0032	0.111		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	29.6	0.90	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1 U	10.1	33.7		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.35	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-079-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 21:28	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 21:37	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:17	Lois E Hiltz	n.a.

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Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 17:14	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 15:39	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/25/2011 23:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 11:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	06/01/2011 00:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 17:56	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	06/01/2011 23:22	David K Beck	5
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 05:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293428
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15605 SDG#: DE156-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 16:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 09:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 21:14	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293429
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15606 SDG#: DE156-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1

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Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293429
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15606 SDG#: DE156-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	73	U	73	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	150	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	97	U	97	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	97	U	97	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	150	10000000	1

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Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293429
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15606 SDG#: DE156-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	150	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	150	10000000	1
10132	Nitroglycerin	55-63-0	970	U	970	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	97	U	97	150	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	150	10000000	1
10132	4-Nitrotoluene	99-99-0	97	U	97	150	10000000	1
10132	PETN	78-11-5	970	U	970	2,900	10000000	1
10132	RDX	121-82-4	61	U	61	150	10000000	1
10132	Tetryl	479-45-8	74	U	74	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	150	10000000	1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	27,500		5.92	23.5		1
07914	Boron	7440-42-8	1.05	U	1.05	5.88		1
01650	Calcium	7440-70-2	17,100		7.21	23.5		1
01654	Iron	7439-89-6	32,300		11.1	47.1		2
01656	Lithium	7439-93-2	30.2		0.26	2.4		1
01657	Magnesium	7439-95-4	7,120		2.99	11.8		1
06958	Manganese	7439-96-5	368		0.0918	0.588		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293429
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15606 SDG#: DE156-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	373	0.659	11.8		1
01662	Potassium	7440-09-7	3,570	21.2	58.8		1
01667	Sodium	7440-23-5	604	43.9	118		1
07968	Strontium	7440-24-6	46.1	0.0730	0.588		1
06969	Tin	7440-31-5	3.04 J	1.18	11.8		1
06970	Titanium	7440-32-6	1,410	0.447	1.18		1
10146	Zirconium	7440-67-7	7.63	0.989	5.88		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.223 J	0.0699	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.61	0.0932	0.466		2
06126	Barium	7440-39-3	160	0.126	0.466		2
06127	Beryllium	7440-41-7	1.03	0.0186	0.117		2
06128	Cadmium	7440-43-9	0.304	0.0466	0.117		2
06131	Chromium	7440-47-3	42.1	0.140	0.466		2
06132	Cobalt	7440-48-4	13.8	0.0233	0.117		2
06133	Copper	7440-50-8	18.6	0.0769	0.466		2
06135	Lead	7439-92-1	11.7	0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.466	0.0583	0.117		2
06139	Nickel	7440-02-0	26.2	0.117	0.466		2
06141	Selenium	7782-49-2	0.0637 J	0.0466	0.466		2
06142	Silver	7440-22-4	0.0979 J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.310	0.0346	0.115		2
06148	Vanadium	7440-62-2	73.8	0.0256	0.117		2
06149	Zinc	7440-66-6	83.7	0.653	3.50		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0130 J	0.0034	0.118		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.6	0.97	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.59	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.5	0.50	0.50		1

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Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293429
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15606 SDG#: DE156-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 16:03	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/26/2011 10:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 13:43	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	06/01/2011 01:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 18:00	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:52	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 15:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293429
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15606 SDG#: DE156-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 05:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 17:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 09:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 21:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15607 SDG#: DE156-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		8.0	9.6		1.07
06192	Benzene	71-43-2	0.12	U	0.12	4.8		1.07
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.8		1.07
06192	Bromochloromethane	74-97-5	0.39	U	0.39	4.8		1.07
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8		1.07
06192	Bromoform	75-25-2	0.48	U	0.48	4.8		1.07
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8		1.07
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6		1.07
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8		1.07
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8		1.07
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8		1.07
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8		1.07
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8		1.07
06192	Chloroethane	75-00-3	0.15	U	0.15	4.8		1.07
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8		1.07
06192	Chloroform	67-66-3	0.14	U	0.14	4.8		1.07
06192	Chloromethane	74-87-3	0.39	U	0.39	4.8		1.07
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8		1.07
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8		1.07
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0		1.07
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8		1.07
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8		1.07
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8		1.07
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8		1.07
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8		1.07
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8		1.07
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8		1.07
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8		1.07
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8		1.07
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8		1.07
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8		1.07
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8		1.07
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8		1.07
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8		1.07
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8		1.07
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8		1.07
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.8		1.07
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8		1.07
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8		1.07
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8		1.07
06192	Freon 113	76-13-1	0.13	U	0.13	4.8		1.07
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0		1.07
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8		1.07
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6		1.07
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8		1.07
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8		1.07
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8		1.07
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6		1.07
06192	Methylene Chloride	75-09-2	1.5	J	0.29	4.8		1.07
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8		1.07

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15607 SDG#: DE156-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8		1.07
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8		1.07
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8		1.07
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8		1.07
06192	Toluene	108-88-3	0.1	U	0.1	4.8		1.07
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8		1.07
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8		1.07
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8		1.07
06192	1,1,2-Trichloroethane	79-00-5	0.32	U	0.32	4.8		1.07
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8		1.07
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8		1.07
06192	1,2,3-Trichloropropane	96-18-4	0.39	U	0.39	4.8		1.07
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8		1.07
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8		1.07
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8		1.07
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8		1.07
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8		1.07
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		23.45
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15607 SDG#: DE156-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15607 SDG#: DE156-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	16	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	Di-n-octylphthalate was detected in the method blank at a concentration of 8 ug/kg. The blank value was not subtracted from the analytical result.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15607 SDG#: DE156-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,600		5.50	21.9		1
07914	Boron	7440-42-8	0.973	U	0.973	5.46		1
01650	Calcium	7440-70-2	10,200		6.70	21.9		1
01654	Iron	7439-89-6	34,900		10.3	43.7		2
01656	Lithium	7439-93-2	30.7		0.24	2.2		1
01657	Magnesium	7439-95-4	8,140		2.78	10.9		1
06958	Manganese	7439-96-5	348		0.0853	0.546		1
10145	Phosphorus	7723-14-0	243		0.612	10.9		1
01662	Potassium	7440-09-7	3,840		19.7	54.6		1
01667	Sodium	7440-23-5	556		40.8	109		1
07968	Strontium	7440-24-6	47.1		0.0678	0.546		1
06969	Tin	7440-31-5	3.09	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,510		0.415	1.09		1
10146	Zirconium	7440-67-7	8.50		0.918	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276		0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.98		0.0892	0.446		2
06126	Barium	7440-39-3	182		0.120	0.446		2
06127	Beryllium	7440-41-7	1.13		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.325		0.0446	0.111		2
06131	Chromium	7440-47-3	39.6		0.134	0.446		2
06132	Cobalt	7440-48-4	16.7		0.0223	0.111		2
06133	Copper	7440-50-8	20.5		0.0736	0.446		2
06135	Lead	7439-92-1	13.4		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.462		0.0557	0.111		2

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Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15607 SDG#: DE156-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	27.4	0.111	0.446		2
06141	Selenium	7782-49-2	0.103 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0542 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.348	0.0322	0.107		2
06148	Vanadium	7440-62-2	72.3	0.0245	0.111		2
06149	Zinc	7440-66-6	77.2	0.624	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0210 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	27.4	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-080-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 21:50	Chelsea B Eastep	1.07
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 21:57	Jason M Long	23.45

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Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15607 SDG#: DE156-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:21	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 17:18	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 16:28	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/26/2011 00:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 14:25	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	06/01/2011 01:52	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 18:04	John P Hook	2
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:56	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 15:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 05:05	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293430
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15607 SDG#: DE156-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 17:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 10:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 21:37	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293431
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15608 SDG#: DE156-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293431
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15608 SDG#: DE156-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1

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Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293431
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15608 SDG#: DE156-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,700		5.40	21.5		1
07914	Boron	7440-42-8	0.955	U	0.955	5.36		1
01650	Calcium	7440-70-2	14,400		6.58	21.5		1
01654	Iron	7439-89-6	26,400		5.05	21.5		1
01656	Lithium	7439-93-2	23.3		0.24	2.1		1
01657	Magnesium	7439-95-4	4,900		2.72	10.7		1
06958	Manganese	7439-96-5	247		0.0837	0.536		1

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Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293431
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15608 SDG#: DE156-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	320		0.601	10.7		1
01662	Potassium	7440-09-7	2,220		19.3	53.6		1
01667	Sodium	7440-23-5	499		40.0	107		1
07968	Strontium	7440-24-6	30.0		0.0665	0.536		1
06969	Tin	7440-31-5	2.97	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,210		0.408	1.07		1
10146	Zirconium	7440-67-7	5.01	J	0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.17		0.0867	0.433		2
06126	Barium	7440-39-3	113		0.117	0.433		2
06127	Beryllium	7440-41-7	1.06		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.137		0.0433	0.108		2
06131	Chromium	7440-47-3	31.3		0.130	0.433		2
06132	Cobalt	7440-48-4	7.00		0.0217	0.108		2
06133	Copper	7440-50-8	15.7		0.0715	0.433		2
06135	Lead	7439-92-1	7.77		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.268		0.0542	0.108		2
06139	Nickel	7440-02-0	17.8		0.108	0.433		2
06141	Selenium	7782-49-2	0.0433	U	0.0433	0.433		2
06142	Silver	7440-22-4	0.0450	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.256		0.0316	0.105		2
06148	Vanadium	7440-62-2	52.4		0.0238	0.108		2
06149	Zinc	7440-66-6	61.1		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.66		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293431
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15608 SDG#: DE156-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 16:52	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/26/2011 00:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 15:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	06/01/2011 02:10	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/26/2011 23:59	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 15:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2

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Analysis Report

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293431
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15608 SDG#: DE156-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 05:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 17:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 10:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 21:48	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.2	8.7		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.99
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.99
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.99
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.3		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.99
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.99
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.99
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.99
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.99
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.3		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.99
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.3		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.99
06192	Methylene Chloride	75-09-2	5.3		0.26	4.3		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.99

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.99
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.99
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.3		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.99
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		25.05
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1

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Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1

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Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.42	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,500		5.44	21.6		1
07914	Boron	7440-42-8	0.962	U	0.962	5.40		1
01650	Calcium	7440-70-2	9,010		6.63	21.6		1
01654	Iron	7439-89-6	26,500		5.09	21.6		1
01656	Lithium	7439-93-2	26.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,960		2.75	10.8		1
06958	Manganese	7439-96-5	226		0.0843	0.540		1
10145	Phosphorus	7723-14-0	125		0.605	10.8		1
01662	Potassium	7440-09-7	2,610		19.5	54.0		1
01667	Sodium	7440-23-5	618		40.3	108		1
07968	Strontium	7440-24-6	50.3		0.0670	0.540		1
06969	Tin	7440-31-5	2.94	J	1.08	10.8		1
06970	Titanium	7440-32-6	747		0.411	1.08		1
10146	Zirconium	7440-67-7	4.07	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.268		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.00		0.0865	0.432		2
06126	Barium	7440-39-3	159		0.117	0.432		2
06127	Beryllium	7440-41-7	1.13		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.270		0.0432	0.108		2
06131	Chromium	7440-47-3	38.4		0.130	0.432		2
06132	Cobalt	7440-48-4	12.7		0.0216	0.108		2
06133	Copper	7440-50-8	16.1		0.0713	0.432		2
06135	Lead	7439-92-1	13.2		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.505		0.0540	0.108		2
06139	Nickel	7440-02-0	28.6		0.108	0.432		2
06141	Selenium	7782-49-2	0.133	J	0.0432	0.432		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06142	Silver	7440-22-4	0.0705	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.283		0.0324	0.108		2
06148	Vanadium	7440-62-2	70.6		0.0238	0.108		2
06149	Zinc	7440-66-6	71.2		0.605	3.24		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0102	J	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.0		0.87	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.35		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-082-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 22:13	Chelsea B Eastep	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 22:16	Jason M Long	25.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:25	Lois E Hiltz	n.a.

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Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 17:22	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 17:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/26/2011 01:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 15:50	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	06/01/2011 02:29	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/27/2011 00:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 15:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 05:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293432
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15609 SDG#: DE156-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 18:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 10:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 22:00	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15610 SDG#: DE156-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.7		7.2	8.6		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.94
06192	Methylene Chloride	75-09-2	1.2	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

*=This limit was used in the evaluation of the final result
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Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15610 SDG#: DE156-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.06
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15610 SDG#: DE156-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1

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Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15610 SDG#: DE156-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15610 SDG#: DE156-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,400		5.66	22.5		1
07914	Boron	7440-42-8	1.00	U	1.00	5.63		1
01650	Calcium	7440-70-2	5,210		6.90	22.5		1
01654	Iron	7439-89-6	25,600		5.30	22.5		1
01656	Lithium	7439-93-2	21.1		0.25	2.3		1
01657	Magnesium	7439-95-4	5,000		2.86	11.3		1
06958	Manganese	7439-96-5	143		0.0878	0.563		1
10145	Phosphorus	7723-14-0	130		0.630	11.3		1
01662	Potassium	7440-09-7	2,110		20.3	56.3		1
01667	Sodium	7440-23-5	411		42.0	113		1
07968	Strontium	7440-24-6	27.4		0.0698	0.563		1
06969	Tin	7440-31-5	3.18	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,160		0.428	1.13		1
10146	Zirconium	7440-67-7	4.76	J	0.945	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.35		0.0909	0.455		2
06126	Barium	7440-39-3	119		0.123	0.455		2
06127	Beryllium	7440-41-7	0.795		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0900	J	0.0455	0.114		2
06131	Chromium	7440-47-3	33.8		0.136	0.455		2
06132	Cobalt	7440-48-4	5.70		0.0227	0.114		2
06133	Copper	7440-50-8	15.0		0.0750	0.455		2
06135	Lead	7439-92-1	8.40		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.204		0.0568	0.114		2
06139	Nickel	7440-02-0	15.3		0.114	0.455		2
06141	Selenium	7782-49-2	0.0537	J	0.0455	0.455		2

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SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15610 SDG#: DE156-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	0.0796 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.280	0.0331	0.110		2
06148	Vanadium	7440-62-2	52.7	0.0250	0.114		2
06149	Zinc	7440-66-6	63.5	0.637	3.41		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0089 J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	16.0	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.40	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-206-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111442AA	05/24/2011 22:35	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111432AA	05/23/2011 22:36	Jason M Long	20.06
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:29	Lois E Hiltz	n.a.

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Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

15610 SDG#: DE156-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114024469	05/20/2011 17:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114024469	05/20/2011 17:38	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114024469	05/20/2011 17:26	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11141SLA026	05/24/2011 17:41	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11141SLD026	05/26/2011 01:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11141SLD026	05/23/2011 04:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11141SLA026	05/22/2011 08:00	Olivia Arosemena	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111430006A	05/25/2011 16:32	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111440020A	06/01/2011 02:47	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111440020A	05/24/2011 19:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111430006A	05/23/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	111455708002	05/27/2011 00:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111451026002D	05/27/2011 15:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111451026002C	05/27/2011 15:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111451026002B	05/27/2011 15:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111531026004A	06/06/2011 22:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111451026002A	05/27/2011 15:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111455711002	05/26/2011 05:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111455708002	05/25/2011 21:51	Annamaria Stipkovits	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293433
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15610 SDG#: DE156-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111451026002	05/25/2011 21:57	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026004	06/06/2011 11:27	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111455711002	05/26/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11145621202B	05/26/2011 18:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11145621201B	06/03/2011 11:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11144243202A	05/25/2011 23:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11145621202B	05/25/2011 08:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11145621201B	05/25/2011 07:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11144243202A	05/24/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-051911 Water
SSFL Area IV Collocated Soil Sampling
TB-051911

LLI Sample # WW 6293434
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:30

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15611 SDG#: DE156-11TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-051911 Water
SSFL Area IV Collocated Soil Sampling
TB-051911

LLI Sample # WW 6293434
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:30

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15611 SDG#: DE156-11TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111441AA	05/24/2011 12:59	Emily R Styer	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111401AA	05/20/2011 18:49	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111401AA	05/20/2011 18:49	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111441AA	05/24/2011 12:59	Emily R Styer	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11146A20A	05/26/2011 23:16	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11146A20A	05/26/2011 23:16	Elizabeth J Marin	1

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Analysis Report

Sample Description: EB03-SA5DN-SB-051911 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293435
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15612 SDG#: DE156-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB03-SA5DN-SB-051911 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293435
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15612 SDG#: DE156-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	3	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB03-SA5DN-SB-051911 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293435
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15612 SDG#: DE156-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.082	J	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.14	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.053	U	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.16	J	0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.033	J	0.011	0.053		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB03-SA5DN-SB-051911 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293435
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15612 SDG#: DE156-12EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	2-Methylnaphthalene	91-57-6	0.033	J	0.011	0.053		1
10137	Naphthalene	91-20-3	0.28		0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	0.053	U	0.053	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1
Reporting limits were raised due to limited sample volume.								
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB03-SA5DN-SB-051911 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293435
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15612 SDG#: DE156-12EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111441AA	05/24/2011 13:21	Emily R Styer	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111401AA	05/20/2011 19:09	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111401AA	05/20/2011 19:09	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111441AA	05/24/2011 13:21	Emily R Styer	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11144WAC026	05/30/2011 21:19	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11144WAK026	05/26/2011 12:27	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11144WAC026	05/24/2011 16:20	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11144WAK026	05/25/2011 09:50	Catherine R Wiker	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB03-SA5DN-SB-051911 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293435
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15612 SDG#: DE156-12EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111440011A	05/27/2011 09:57	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111440011A	05/24/2011 14:00	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111441848008	05/26/2011 03:58	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111446050005D	05/27/2011 17:05	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111446050005C	05/27/2011 17:05	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111446050005B	05/27/2011 17:05	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06045	Thallium	SW-846 6020	2	111536050004A	06/03/2011 06:45	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111446050005A	05/27/2011 17:05	Choon Y Tian	1
00259	Mercury	SW-846 7470A	2	111465713002	05/31/2011 15:08	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111441848008	05/25/2011 10:52	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111446050005	05/25/2011 11:46	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	111536050004	06/02/2011 23:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111465713002	05/26/2011 15:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11146196901C	05/27/2011 07:20	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/04/2011 10:30	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11140141401A	05/20/2011 11:21	Parker D Lindstrom	1
00200	18b pH by 9040B	SW-846 9040B	1	11144020001A	05/24/2011 19:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB04-SA5DN-SS-051911 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293436
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15613 SDG#: DE156-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	63		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	2	J	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB04-SA5DN-SS-051911 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293436
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15613 SDG#: DE156-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1

4-Chloroaniline was detected in the method blank at a concentration of 3 ug/l. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054		1
10137	Butylbenzylphthalate	85-68-7	0.089	J	0.054	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.15	J	0.054	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.054		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054		1
10137	Diethylphthalate	84-66-2	0.054	U	0.054	1.1		1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.21	J	0.054	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.054		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.054		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.054		1
10137	1-Methylnaphthalene	90-12-0	0.032	J	0.011	0.054		1
10137	2-Methylnaphthalene	91-57-6	0.032	J	0.011	0.054		1
10137	Naphthalene	91-20-3	0.21		0.032	0.054		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.054		1
10137	Di-n-octylphthalate	117-84-0	0.33	J	0.054	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.054		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.054		1

Reporting limits were raised due to limited sample volume.

The recovery of di-n-octylphthalate was above QC limits in the LCSD. This sample was re-extracted, and the recovery of di-n-octylphthalate was again above QC limits in the LCS/LCSD. Di-n-octylphthalate was not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.3		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.086	U	0.086	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	54	U	54	210		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB04-SA5DN-SS-051911 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293436
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15613 SDG#: DE156-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0098		1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0098		1
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0098		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0098		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.49		1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.020		1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.020		1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.020		1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0098		1
00177	Dieldrin	60-57-1	0.0052	U	0.0052	0.020		1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0098		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0057	U	0.0057	0.020		1
00177	Endrin	72-20-8	0.0079	U	0.0079	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.098		1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.020		1
00177	Heptachlor	76-44-8	0.0025	U	0.0025	0.0098		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.0098		1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.098		1
00177	Mirex	2385-85-5	0.083	U	0.083	0.24		1
00177	Toxaphene	8001-35-2	0.98	U	0.98	2.9		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1

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Analysis Report

Sample Description: EB04-SA5DN-SS-051911 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293436
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15613 SDG#: DE156-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000056 J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0213	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.3	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **EB04-SA5DN-SS-051911 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293436
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15613 SDG#: DE156-13EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11144WAC026	05/30/2011 21:44	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11144WAK026	05/26/2011 12:58	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11144WAC026	05/24/2011 16:20	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11144WAK026	05/25/2011 09:50	Catherine R Wiker	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111430020A	05/25/2011 00:18	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111440010A	05/27/2011 19:00	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111440011A	05/27/2011 10:15	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111440011A	05/24/2011 14:00	Kelli M Barto	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111440010A	05/24/2011 14:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111430020A	05/23/2011 20:00	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111441848008	05/26/2011 04:01	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111446050005D	05/27/2011 17:08	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111446050005C	05/27/2011 17:08	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111446050005B	05/27/2011 17:08	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06045	Thallium	SW-846 6020	2	111536050004A	06/03/2011 06:47	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111446050005A	05/27/2011 17:08	Choon Y Tian	1
00259	Mercury	SW-846 7470A	2	111465713002	05/31/2011 15:09	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111441848008	05/25/2011 10:52	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111446050005	05/25/2011 11:46	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	111536050004	06/02/2011 23:00	Mirit S Shenouda	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB04-SA5DN-SS-051911 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293436
LLI Group # 1247820
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/08/2011 16:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15613 SDG#: DE156-13EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	111465713002	05/26/2011 15:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11146196901C	05/27/2011 08:04	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 15:09	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11140141401A	05/20/2011 11:33	Parker D Lindstrom	1
00200	18b pH by 9040B	SW-846 9040B	1	11144020001A	05/24/2011 19:50	Luz M Groff	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111442AA	Sample number(s): 6293424-6293428,6293430,6293432-6293433									
Acetone	6.7	U	6.7	8.0	ug/kg	91		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	99		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	94		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	102		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	93		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	93		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	71		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	94		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	97		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	98		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	94		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	65		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	84		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	83		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	95		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	92		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	98		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	95		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	95		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	96		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	78		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	98		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	99		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	99		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	98		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	95		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	98		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	92		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	90		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	87		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	98		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	75*		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	91		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	98		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	100		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	96		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	97		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	98		61-134		
Methylene Chloride	0.66	J	0.24	4.0	ug/kg	100		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	98		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	99		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	95		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	92		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	97		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	97		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	88		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	96		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	98		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	96		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	95		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	96		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	83		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	100		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	98		80-120		
Batch number: E111401AA	Sample number(s): 6293434-6293435									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	111		80-123		
Batch number: E111432AA	Sample number(s): 6293424-6293428,6293430,6293432-6293433									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	110	107	70-130	3	30
Batch number: L111441AA	Sample number(s): 6293434-6293435									
Acetone	6	U	6.	20	ug/l	134	117	49-234	13	30
Benzene	0.5	U	0.5	5	ug/l	102	98	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	94	90	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	99	94	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	98	92	80-120	7	30
Bromoform	1	U	1.	5	ug/l	82	79	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	110	107	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	104	99	66-151	5	30
n-Butylbenzene	1	U	1.	5	ug/l	100	96	74-120	5	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	89	78-120	4	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	92	75-123	9	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	109	102	49-129	6	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	94	89	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	105	99	77-122	7	30
Chloromethane	1	U	1.	5	ug/l	104	103	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	92	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	93	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	57	56	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	89	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	94	87	80-120	7	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	95	80-120	6	30
Dibromomethane	1	U	1.	5	ug/l	100	93	80-120	7	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	91	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	91	88	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	99	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	105	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	92	89	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	92	80-120	7	30
1,2-Dichloropropane	1	U	1.	5	ug/l	100	93	78-120	6	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	95	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	90	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	95	80-120	8	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	91	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	88	79-120	6	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	95	79-120	5	30
Freon 113	2	U	2.	10	ug/l	95	87	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	96	96	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	80	79	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	93	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	100	95	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	89	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	93	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	91	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	98	93	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	91	80-120	7	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	100	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	92	80-121	5	30
Toluene	0.7	U	0.7	5	ug/l	100	95	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	88	85	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	83	81	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	101	96	75-127	5	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	95	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	112	105	64-129	7	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	94	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	94	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	90	75-120	6	30
Vinyl Chloride	1	U	1.	5	ug/l	103	101	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	94	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	97	92	80-120	5	30
Batch number: 11141SLA026	Sample number(s): 6293424-6293433									
Aniline	170 U		170.	500	ug/kg	70		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	70		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	85		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	88		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	63		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	85		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	82		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	91		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	86		79-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	57		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	87		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	93		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	51*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	28*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	89		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	99		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	80		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	57		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		68-105		
Isophorone	17	U	17.	170	ug/kg	82		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	84		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	65		51-117		
Phenol	17	U	17.	170	ug/kg	84		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 11141SLD026	Sample number(s): 6293424-6293433									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	93		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	136*		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	139		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	147*		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	132		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	107		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	1.1	J	0.67	1.7	ug/kg	150*		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	94		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	124		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	105		64-120		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	98		71-120		
Indeno(1,2,3-cd)pyrene	0.69	J	0.67	1.7	ug/kg	148*		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	8.0	J	6.0	18	ug/kg	152		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		56-121		
Batch number: 11141SLH026	Sample number(s): 6293424-6293427									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11144WAC026	Sample number(s): 6293435-6293436									
Aniline	1	U	1.	5	ug/l	80	83	49-101	4	30
Benzidine	20	U	20.	60	ug/l	86	90	34-117	5	30
Benzoic acid	6	U	6.	15	ug/l	27	40	10-69	39*	30
Benzyl alcohol	5	U	5.	15	ug/l	77	79	66-97	3	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	92	93	82-117	2	30
Carbazole	1	U	1.	5	ug/l	92	93	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	93	70-123	4	30
4-Chloroaniline	3	J	1.	5	ug/l	80	79	42-124	1	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	98	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	93	96	77-108	3	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	85	90	62-127	6	30
2-Chloronaphthalene	2	U	2.	5	ug/l	72	76	54-132	5	30
2-Chlorophenol	1	U	1.	5	ug/l	90	92	77-108	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	91	93	82-111	2	30
Dibenzofuran	1	U	1.	5	ug/l	89	95	83-108	6	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	80	83	55-118	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	81	82	50-119	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	79	83	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	79	76	49-111	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	93	98	80-109	5	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	89	93	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	98	103	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	91	96	78-119	5	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	92	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	92	97	81-115	6	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	92	95	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	97	101	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	90	93	81-118	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	81	87	57-124	6	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	70	76	36-118	9	30
Hexachloroethane	1	U	1.	5	ug/l	81	81	52-113	1	30
Isophorone	1	U	1.	5	ug/l	91	96	74-117	5	30
2-Methylphenol	1	U	1.	5	ug/l	81	83	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	82	83	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	94	97	83-116	3	30
3-Nitroaniline	1	U	1.	5	ug/l	93	96	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	77	78	59-100	1	30
Nitrobenzene	1	U	1.	5	ug/l	94	98	75-109	3	30
2-Nitrophenol	1	U	1.	5	ug/l	91	97	86-120	6	30
4-Nitrophenol	10	U	10.	30	ug/l	46	43	16-78	6	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	92	69-110	6	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	90	94	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	74	77	53-110	3	30
Phenol	1	U	1.	5	ug/l	44	46	21-67	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	91	71-112	6	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	90	95	79-107	5	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	92	97	81-113	5	30
Batch number: 11144WAK026	Sample number(s): 6293435-6293436									
Acenaphthene	0.010	U	0.010	0.050	ug/l	96	99	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	98	103	70-110	6	30
Anthracene	0.010	U	0.010	0.050	ug/l	102	104	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	103	105	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	142*	146*	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	145*	148*	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	147*	152*	57-131	4	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	143*	147*	59-130	3	30
Butylbenzylphthalate	0.070	J	0.050	1.0	ug/l	105	109	40-138	4	30
Di-n-butylphthalate	0.082	J	0.050	1.0	ug/l	102	105	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	101	103	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	147*	153*	55-134	4	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	98	102	57-134	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	97	103	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.11	J	0.050	1.0	ug/l	121	124	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	102	104	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	107	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	147*	152*	69-124	3	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	101	96	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	90	85	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	97	96	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	63	69	36-89	9	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	144	152*	57-145	6	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	97	99	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	96	98	69-118	2	30
Batch number: 11139A34A	Sample number(s): 6293424-6293427									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71	73	67-119	2	30
Batch number: 11146A20A	Sample number(s): 6293434									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 111430006A	Sample number(s): 6293424-6293433									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	119		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	126*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	107	54-134	7	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	107	54-134	7	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	129		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	119		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	108		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	145*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	105		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	115		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	113		80-120		
PETN	800 U		800.	2,400	ug/kg	132*		80-120		
RDX	50	U	50.	120	ug/kg	116		75-131		
Tetryl	61	U	61.	120	ug/kg	82		70-168		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	119		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 111510009A	Sample number(s): 6293424-6293427									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	84		80-126		
Batch number: 111430020A	Sample number(s): 6293436									
2,4-D	0.16	U	0.16	0.50	ug/l	104	92	73-157	12	30
Dalapon	0.25	U	0.25	1.3	ug/l	75	71	40-100	4	30
2,4-DB	0.30	U	0.30	1.0	ug/l	108	104	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	48*	52*	68-135	8	30
Dinoseb	0.10	U	0.10	0.50	ug/l	86	42	32-91	69*	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	124	76-170	0	30
MCPA	300 U		300.	1,000	ug/l	90	84	65-128	7	30
MCPP	50	U	50.	200	ug/l	88	88	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	116	104	63-147	11	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	112	112	63-134	0	30
Batch number: 111440010A	Sample number(s): 6293436									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	73-147	9	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	115	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	116	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	105	105	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	124	113	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	110	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	92	89	68-128	3	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	105	100	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	120	110	71-142	9	30
Endrin	0.0081	U	0.0081	0.020	ug/l	110	100	52-132	10	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	120	115	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	115	115	69-146	0	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	110	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	110	100	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111440011A	Sample number(s): 6293435-6293436									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	92*	84	35-84	9	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	108	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	84	88	56-135	5	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111440020A	Sample number(s): 6293424-6293433									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	81	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	92		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111440028A	Sample number(s): 6293424-6293427									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	96		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 111400025A	Sample number(s): 6293424-6293427									
Ethanol	100 U		100.	500	ug/kg	83		71-129		
Isopropanol	100 U		100.	500	ug/kg	91		75-125		
Methanol	100 U		100.	500	ug/kg	78		68-129		
Batch number: 111430018A	Sample number(s): 6293424-6293427									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Batch number: 111430017A	Sample number(s): 6293424-6293427									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
Batch number: 111441848008	Sample number(s): 6293435-6293436									
Aluminum	0.0834	U	0.0834	0.200	mg/l	96	97	90-112	1	20
Boron	0.0138	U	0.0138	0.0500	mg/l	92	93	89-110	1	20
Calcium	0.0702	U	0.0702	0.200	mg/l	100	100	90-112	0	20
Iron	0.0522	U	0.0522	0.200	mg/l	100	101	90-112	2	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	97	97	80-120	0	20
Magnesium	0.0172	U	0.0172	0.100	mg/l	98	99	89-110	0	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	100	101	90-110	1	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	97	98	80-120	1	20
Potassium	0.239	U	0.239	0.500	mg/l	97	95	85-115	3	20
Sodium	0.433	U	0.433	1.00	mg/l	96	96	87-114	0	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	99	101	90-110	2	20
Tin	0.0098	U	0.0098	0.0200	mg/l	97	98	90-110	1	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	99	101	90-113	1	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	101	102	80-120	1	20
Batch number: 111446050005A	Sample number(s): 6293435-6293436									
Antimony	0.00030	U	0.00030	0.0010	mg/l	101	98	87-110	3	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	101	108	86-111	7	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	110	107	90-112	3	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.00020 U	0.00020	0.00050	mg/l	104	105	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	105	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	100	99	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	99	97	90-113	2	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	104	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	105	90-113	1	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	102	104	90-115	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	102	89-116	5	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	105	105	90-116	0	20
Batch number: 111446050005B	Sample number(s): 6293435-6293436								
Selenium	0.00025 U	0.00025	0.0020	mg/l	98	101	85-114	3	20
Batch number: 111446050005C	Sample number(s): 6293435-6293436								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	103	89-115	1	20
Batch number: 111446050005D	Sample number(s): 6293435-6293436								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	102	88-113	3	20
Batch number: 111451026002A	Sample number(s): 6293424-6293433								
Antimony	0.0600 U	0.0600	0.200	mg/kg	108		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	105		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	110		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	113		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	119		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0707 J	0.0660	0.400	mg/kg	103		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	106		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	106		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	106		81-111		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	108		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	106		81-112		
Batch number: 111451026002B	Sample number(s): 6293424-6293433								
Selenium	0.0400 U	0.0400	0.400	mg/kg	111		83-111		
Batch number: 111451026002C	Sample number(s): 6293424-6293433								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	119		78-122		
Batch number: 111451026002D	Sample number(s): 6293424-6293433								
Barium	0.108 U	0.108	0.400	mg/kg	107		81-111		
Batch number: 111455708002	Sample number(s): 6293424-6293433								
Aluminum	5.03 U	5.03	20.0	mg/kg	93		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.19 J	6.13	20.0	mg/kg	102		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	100		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	99		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.07 J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	98		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.61 J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	100		80-120		

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Quality Control Summary

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Reported: 06/08/11 at 04:50 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Zirconium	0.840 U	0.840	5.00	mg/kg	104		80-120		
Batch number: 111455711002	Sample number(s): 6293424-6293433								
Mercury	0.0027 U	0.0027	0.0946	mg/kg	99		88-123		
Batch number: 111465713002	Sample number(s): 6293435-6293436								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	97	97	80-120	1	20
Batch number: 111531026004A	Sample number(s): 6293424-6293433								
Thallium	0.0288 U	0.0288	0.0962	mg/kg	105		83-110		
Batch number: 111536050004A	Sample number(s): 6293435-6293436								
Thallium	0.00015 U	0.00015	0.00050	mg/l	105	106	89-116	1	20
Batch number: 11140141401A	Sample number(s): 6293435-6293436								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	112*	113*	90-110	1	20
Batch number: 11144243202A	Sample number(s): 6293424-6293433								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	80		80-120		
Batch number: 11145102201A	Sample number(s): 6293424								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11145102201B	Sample number(s): 6293425-6293427								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11145621201B	Sample number(s): 6293424-6293433								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	113		85-115		
Batch number: 11145621202B	Sample number(s): 6293424-6293433								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	110		90-110		
Batch number: 11146196901C	Sample number(s): 6293435-6293436								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	101	103	90-110	2	20
Batch number: 11154621701A	Sample number(s): 6293435-6293436								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11144020001A	Sample number(s): 6293435-6293436								
18b pH by 9040B					100	100	90-110	0	3
Batch number: 11144039401B	Sample number(s): 6293424-6293433								
18a pH by 9045C					100		95-105		
Batch number: 11152162401B	Sample number(s): 6293424-6293433								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: B111442AA	Sample number(s): 6293424-6293428,6293430,6293432-6293433 UNSPK: P292036								
Acetone	90	93	15-210	9	30				
Benzene	113	102	55-143	24	30				
Bromobenzene	106	89	43-139	30	30				
Bromochloromethane	109	101	60-137	20	30				
Bromodichloromethane	102	93	53-136	22	30				
Bromoform	96	90	38-124	19	30				
Bromomethane	76	71	42-168	19	30				
2-Butanone	97	100	37-163	9	30				
n-Butylbenzene	107	84	30-146	36*	30				
sec-Butylbenzene	111	87	33-157	36*	30				
tert-Butylbenzene	110	88	41-152	35*	30				
Carbon Tetrachloride	110	99	45-153	23	30				
Chlorobenzene	108	94	49-135	27	30				
Chloroethane	70	65	39-152	20	30				
2-Chloroethyl Vinyl Ether	90	98	32-139	4	30				
Chloroform	110	100	61-142	23	30				
Chloromethane	94	89	51-163	18	30				
2-Chlorotoluene	107	87	42-146	33*	30				
4-Chlorotoluene	110	89	39-145	34*	30				
Chlorotrifluoroethene	94	85	70-130	19	30				
1,2-Dibromo-3-chloropropane	94	94	30-139	13	30				
Dibromochloromethane	99	91	51-128	22	30				
1,2-Dibromoethane	103	97	54-129	19	30				
Dibromomethane	101	96	57-130	19	30				
1,2-Dichlorobenzene	106	88	36-133	32*	30				
1,3-Dichlorobenzene	103	85	34-134	32*	30				
1,4-Dichlorobenzene	103	85	35-136	32*	30				
Dichlorodifluoromethane	90	83	26-151	21	30				
1,1-Dichloroethane	113	102	63-142	23	30				
1,2-Dichloroethane	106	100	68-131	19	30				
1,1-Dichloroethene	118	108	61-149	22	30				
cis-1,2-Dichloroethene	110	100	60-136	23	30				
trans-1,2-Dichloroethene	114	99	59-142	27	30				
1,2-Dichloropropane	107	97	62-135	22	30				
1,3-Dichloropropane	104	96	58-129	21	30				
2,2-Dichloropropane	106	98	53-147	22	30				
1,1-Dichloropropene	113	103	54-145	22	30				
cis-1,3-Dichloropropene	100	91	51-131	22	30				
trans-1,3-Dichloropropene	95	87	49-129	22	30				
Ethylbenzene	110	94	44-141	28	30				
Freon 113	115	107	56-156	20	30				
Freon 133a	81	74	61-131	19	30				
Hexachlorobutadiene	92	72	10-155	37*	30				
2-Hexanone	100	104	32-160	9	30				
Isopropylbenzene	111	93	38-144	30	30				
p-Isopropyltoluene	109	85	29-152	37*	30				
Methyl Tertiary Butyl Ether	103	96	55-129	19	30				
4-Methyl-2-pentanone	96	101	46-139	8	30				
Methylene Chloride	107	99	61-141	20	30				
n-Propylbenzene	111	89	39-157	34*	30				
Styrene	110	94	35-134	29	30				
1,1,1,2-Tetrachloroethane	104	93	52-130	25	30				
1,1,2,2-Tetrachloroethane	99	91	40-152	21	30				
Tetrachloroethene	117	100	42-149	28	30				
Toluene	111	97	50-146	26	30				
1,2,3-Trichlorobenzene	92	82	10-140	25	30				
1,2,4-Trichlorobenzene	89	76	10-136	28	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1-Trichloroethane	110	101	64-142	22	30				
1,1,2-Trichloroethane	104	95	54-139	22	30				
Trichloroethene	109	99	53-144	23	30				
Trichlorofluoromethane	97	91	47-163	19	30				
1,2,3-Trichloropropane	98	93	45-154	18	30				
1,2,4-Trimethylbenzene	108	86	37-149	35*	30				
1,3,5-Trimethylbenzene	111	90	38-150	34*	30				
Vinyl Chloride	95	90	50-154	18	30				
m+p-Xylene	112	95	44-137	29	30				
o-Xylene	109	93	42-137	28	30				
Batch number: E111401AA	Sample number(s): 6293434-6293435 UNSPK: P292416								
1,4-Dioxane	108	115	73-138	5	30				
Batch number: E111432AA	Sample number(s): 6293424-6293428,6293430,6293432-6293433 UNSPK: P292036								
1,4-Dioxane	99	111	70-130	9	30				
Batch number: 11141SLA026	Sample number(s): 6293424-6293433 UNSPK: P292036								
Aniline	68	69	35-95	3	30				
Benzidine	43	55	35-141	23	30				
Benzoic acid	56	37	10-173	39*	30				
Benzyl alcohol	93	91	67-115	2	30				
4-Bromophenyl-phenylether	88	87	67-129	1	30				
Carbazole	105	100	64-120	5	30				
4-Chloro-3-methylphenol	93	92	76-110	1	30				
4-Chloroaniline	63	83	23-95	28	30				
bis(2-Chloroethoxy)methane	88	86	75-104	2	30				
bis(2-Chloroethyl)ether	87	84	60-116	4	30				
bis(2-Chloroisopropyl)ether	83	81	55-142	2	30				
2-Chloronaphthalene	68	97	50-141	35*	30				
2-Chlorophenol	96	93	73-121	3	30				
4-Chlorophenyl-phenylether	91	89	80-109	2	30				
Dibenzofuran	97	95	71-112	3	30				
1,2-Dichlorobenzene	82	80	66-108	2	30				
1,3-Dichlorobenzene	79	77	63-109	2	30				
1,4-Dichlorobenzene	80	78	70-100	2	30				
3,3'-Dichlorobenzidine	53	69	16-119	26	30				
2,4-Dichlorophenol	102	100	78-117	2	30				
2,4-Dimethylphenol	90	88	78-110	2	30				
3,5-Dimethylphenol	98	96	70-130	1	30				
4,6-Dinitro-2-methylphenol	65	23*	24-116	94*	30				
2,4-Dinitrophenol	34	0*	20-143	200*	30				
2,4-Dinitrotoluene	104	100	73-113	4	30				
2,6-Dinitrotoluene	99	97	69-123	2	30				
1,2-Diphenylhydrazine	94	87	71-129	6	30				
bis(2-Ethylhexyl)phthalate	102	97	63-122	5	30				
Hexachlorobenzene	96	91	77-114	4	30				
Hexachlorobutadiene	79	79	62-120	0	30				
Hexachlorocyclopentadiene	57	56	10-153	1	30				
Hexachloroethane	77	75	57-109	2	30				
Isophorone	86	84	73-102	1	30				
2-Methylphenol	93	90	75-111	3	30				
4-Methylphenol	98	94	71-111	3	30				

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Quality Control Summary

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Reported: 06/08/11 at 04:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitroaniline	100	99	67-125	0	30				
3-Nitroaniline	96	96	59-122	1	30				
4-Nitroaniline	75	77	52-112	3	30				
Nitrobenzene	86	84	72-106	2	30				
2-Nitrophenol	95	90	74-115	5	30				
4-Nitrophenol	90	88	54-113	1	30				
N-Nitroso-di-n-propylamine	80	79	60-116	1	30				
N-Nitrosodiphenylamine	101	96	86-145	5	30				
Pentachlorophenol	65	52	28-127	22	30				
Phenol	88	85	58-126	3	30				
1,2,4-Trichlorobenzene	84	82	72-115	2	30				
2,4,5-Trichlorophenol	99	97	78-109	1	30				
2,4,6-Trichlorophenol	98	99	77-115	2	30				
Batch number: 11141SLD026	Sample number(s): 6293424-6293433 UNSPK: P292036								
Acenaphthene	91	26*	63-105	112*	30				
Acenaphthylene	93	26*	67-114	112*	30				
Anthracene	100	29*	60-122	110*	30				
Benzo(a)anthracene	103	32*	59-128	106*	30				
Benzo(a)pyrene	141*	43*	45-138	108*	30				
Benzo(b)fluoranthene	142	46	43-155	103*	30				
Benzo(g,h,i)perylene	92	23*	33-141	119*	30				
Benzo(k)fluoranthene	151*	48	42-144	105*	30				
Butylbenzylphthalate	108	31*	57-173	110*	30				
Di-n-butylphthalate	109	35*	65-148	103*	30				
Chrysene	97	30*	48-134	105*	30				
Dibenz(a,h)anthracene	111	29	22-133	118*	30				
Diethylphthalate	103	30*	70-136	112*	30				
Dimethylphthalate	97	30*	74-118	107*	30				
Bis(2-Ethylhexyl)phthalate	115	39	39-167	100*	30				
Fluoranthene	109	37	26-166	100*	30				
Fluorene	103	30*	66-122	111*	30				
Indeno(1,2,3-cd)pyrene	106	27	21-143	118*	30				
1-Methylnaphthalene	96	29*	72-123	107*	30				
2-Methylnaphthalene	82	26*	64-103	106*	30				
Naphthalene	91	25*	61-102	114*	30				
N-Nitrosodimethylamine	90	26*	48-113	112*	30				
Di-n-octylphthalate	147	62	40-192	82*	30				
Phenanthrene	93	29	12-165	107*	30				
Pyrene	90	29	15-153	105*	30				
Batch number: 11141SLH026	Sample number(s): 6293424-6293427 UNSPK: P291999								
N-Nitrosodimethylamine	82	72	70-130	11	30				
Batch number: 111430006A	Sample number(s): 6293424-6293433 UNSPK: P291999								
4-Amino-2,6-Dinitrotoluene	95	104	80-127	10	50				
2-Amino-4,6-Dinitrotoluene	97	106	80-137	11	50				
1,3-Dinitrobenzene	104	111	38-166	9	50				
2,4-Dinitrotoluene	93	102	80-131	11	50				
2,6-Dinitrotoluene	93	99	80-127	9	50				
HMX	83	91	63-128	12	50				
Nitrobenzene	115	125	80-125	10	50				
Nitroglycerin	92	99	80-120	10	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrotoluene	94	101	80-122	9	50				
3-Nitrotoluene	97	104	72-119	9	50				
4-Nitrotoluene	93	100	80-125	9	50				
PETN	109	118	80-121	10	50				
RDX	80	90	75-129	13	50				
Tetryl	60	69	55-174	15	50				
1,3,5-Trinitrobenzene	90	101	82-126	13	50				
2,4,6-Trinitrotoluene	91	100	82-130	11	50				
Batch number: 111510009A	Sample number(s): 6293424-6293427 UNSPK: P293457								
25a Formaldehyde 8315A	89	91	80-120	2	50				
Batch number: 111440020A	Sample number(s): 6293424-6293433 UNSPK: P292036								
PCB-1016	103	86	29-146	18	50				
PCB-1260	86	86	39-149	0	50				
Batch number: 111440028A	Sample number(s): 6293424-6293427 UNSPK: P291999								
EFH (C12-C14)	101	100	49-123	1	20				
EFH (C15-C20)	60	113	49-123	16	20				
EFH (C21-C30)	101 (2)	286 (2)	49-123	30*	20				
EFH (C30 - C40)	248 (2)	541 (2)	49-123	21*	20				
EFH (C8-C11)	90	88	49-123	3	20				
Batch number: 111400025A	Sample number(s): 6293424-6293427 UNSPK: P293457								
Ethanol	0*	0*	48-130	0	20				
Isopropanol	25	56	12-149	75*	20				
Methanol	62	58	43-138	6	20				
Batch number: 111430018A	Sample number(s): 6293424-6293427 UNSPK: P291999								
Diethylene glycol	36*	56*	59-109	45*	20				
Ethylene glycol	44*	71	63-107	47*	20				
Propylene glycol	48*	77	63-107	45*	20				
Batch number: 111430017A	Sample number(s): 6293424-6293427 UNSPK: P291999								
m-Terphenyl	63*	62*	75-125	2	20				
o-Terphenyl	92	95	75-125	3	20				
p-Terphenyl	83	80	75-125	4	20				
Batch number: 111451026002A	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								
Antimony	66*	84	75-125	21*	20	0.121 J	0.152 J	23* (1)	20
Arsenic	123	281*	75-125	38*	20	4.11	4.73	14	20
Beryllium	80	167*	75-125	40*	20	0.711	0.684	4	20
Cadmium	101	151*	75-125	36*	20	0.0826 J	0.119	36* (1)	20
Chromium	109	301*	75-125	42*	20	24.4	27.1	10	20
Cobalt	99	143*	75-125	33*	20	5.76	6.95	19	20
Copper	111	198*	75-125	31*	20	11.3	11.3	0	20
Lead	123	321*	75-125	42*	20	7.12	7.89	10	20
Nickel	128*	232*	75-125	31*	20	15.2	16.8	10	20
Silver	103	138*	75-125	28*	20	0.0364 J	0.0484 J	28* (1)	20
Vanadium	172*	515*	75-125	48*	20	35.1	42.3	18	20
Zinc	155 (2)	400 (2)	75-125	32*	20	46.7	48.7	4	20
Batch number: 111451026002B	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	95	113	75-125	16	20	0.0765 J	0.0534 J	36* (1)	20
Batch number: 111451026002C	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								
Molybdenum	98	132*	75-125	28*	20	0.135	0.133	1 (1)	20
Batch number: 111451026002D	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								
Barium	-33 (2)	1553 (2)	75-125	85*	20	108	103	5	20
Batch number: 111455708002	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								
Aluminum	3128 (2)	5339 (2)	75-125	13	20	25,200	30,900	20	20
Boron	100	102	84-115	4	20	0.856 U	0.873 U	0 (1)	20
Calcium	168 (2)	1497 (2)	75-125	62*	20	5,270	13,100	85*	20
Iron	2495 (2)	3453 (2)	75-125	3	20	26,900	29,800	10	20
Lithium	106	109	82-114	4	20	28.9	32.3	11	20
Magnesium	525 (2)	755 (2)	75-125	7	20	5,850	6,420	9	20
Manganese	210 (2)	153 (2)	75-125	8	20	243	230	6	20
Phosphorus	130*	127*	75-125	0	20	140	131	6	20
Potassium	153*	177*	75-125	7	20	2,460	2,550	3	20
Sodium	104	109	75-125	4	20	668	745	11	20
Strontium	103	106	75-115	4	20	51.6	55.9	8	20
Tin	91	90	80-110	1	20	2.69 J	2.98 J	10 (1)	20
Titanium	565 (2)	785 (2)	75-125	17	20	647	1,020	44*	20
Zirconium	103	104	75-125	3	20	3.48 J	6.07	54* (1)	20
Batch number: 111455711002	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								
Mercury	103	99	65-135	6	20	0.0061 J	0.0027 U	200* (1)	20
Batch number: 111531026004A	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								
Thallium	81	94	75-125	9	20	0.265	0.260	2 (1)	20
Batch number: 11144243202A	Sample number(s): 6293424-6293433 UNSPK: P292036 BKG: P292036								
3a Cr VI by EPA 7199	85		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11145102201A	Sample number(s): 6293424 UNSPK: P291999 BKG: P291999								
17a Cyanide by 9012B	105		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11145102201B	Sample number(s): 6293425-6293427 UNSPK: 6293427 BKG: 6293427								
17a Cyanide by 9012B	104		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11145621201B	Sample number(s): 6293424-6293433 UNSPK: 6293424 BKG: 6293424								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11145621202B	Sample number(s): 6293424-6293433 UNSPK: 6293424 BKG: 6293424								
11a Anions by 300.0 - Fluoride	78*		80-120			20.2	23.8	17	20
11a Anions by 300.0 - Nitrate	110		80-120			1.0 J	1.1 J	5 (1)	20
Batch number: 11144039401B	Sample number(s): 6293424-6293433 BKG: 6293424								
18a pH by 9045C						8.34	8.36	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11152162401B	Sample number(s): 6293424-6293433					BKG: P292005			
Moisture Content by 160.3						14.1	13.3	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111442AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6293424	103	109	97	96
6293425	99	97	98	93
6293426	101	100	100	94
6293427	103	106	98	95
6293428	102	103	97	94
6293430	101	96	99	94
6293432	101	98	99	94
6293433	101	98	98	92
Blank	100	101	98	94
LCS	102	101	100	99
MS	100	99	102	98
MSD	103	106	100	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111401AA

	Toluene-d8
6293434	100
6293435	100
Blank	100
LCS	99
MS	100
MSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111432AA

	Toluene-d8
6293424	98
6293425	97
6293426	98
6293427	97
6293428	97
6293430	97

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Surrogate Quality Control

6293432	98
6293433	98
Blank	98
LCS	98
LCSD	98
MS	98
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6293434	104	101	101	99
6293435	105	100	101	100
Blank	105	101	101	100
LCS	104	104	103	104
LCSD	104	100	102	103
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11141SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6293424	80	87	44	72	78	87
6293425	79	84	42	70	73	85
6293426	77	82	44	67	73	86
6293427	75	80	44	66	71	81
6293428	76	81	47	66	72	80
6293429	78	82	52	69	72	85
6293430	78	83	56	70	78	87
6293431	79	84	61	70	76	80
6293432	80	85	63	71	76	82
6293433	81	85	68	74	78	79
Blank	80	84	85	79	86	79
LCS	79	82	82	74	81	75
MS	86	89	91	80	88	85
MSD	81	84	87	77	83	79
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11141SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6293424	91	83	96
6293425	92	86	93
6293426	94	85	98
6293427	101	98	106
6293428	96	88	95
6293429	95	91	102
6293430	92	85	92
6293431	101	94	102
6293432	104	88	96
6293433	90	85	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Surrogate Quality Control

Blank	106	94	108
LCS	98	92	97
MS	113	105	98
MSD	31*	31*	30*
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11141SLH026

	N-Nitrosodimethylamine-d6
6293424	102
6293425	94
6293426	109
6293427	103
Blank	104
LCS	103
MS	126
MSD	130
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11144WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6293435	55	35	78	93	88	84
6293436	56	35	85	89	84	79
Blank	52	31	88	88	85	77
LCS	59	38	83	85	83	81
LCSD	60	39	86	90	89	83
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11144WAK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6293435	97	93	101
6293436	101	95	103
Blank	93	91	89
LCS	106	94	97
LCSD	108	101	103
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11139A34A

	Trifluorotoluene-F
6293424	75
6293425	69
6293426	72
6293427	71
Blank	81
LCS	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Surrogate Quality Control

LCSD 86

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11146A20A

	Trifluorotoluene-F
6293434	70
Blank	71
LCS	112
LCSD	107

Limits: 63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111430006A

	2-Nitro-m-xylene
6293424	119
6293425	108
6293426	106
6293427	106
6293428	110
6293429	89
6293430	110
6293431	105
6293432	112
6293433	108
Blank	114
LCS	121
LCSD	114
MS	101
MSD	99

Limits: 80-146

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111430020A

	2,4-Dichlorophenylacetic acid
6293436	90
Blank	91
LCS	103
LCSD	102

Limits: 35-144

Analysis Name: 12b Pesticides by 8081A
Batch number: 111440010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6293436	97	100
Blank	112	94
LCS	108	96
LCSD	108	100

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Surrogate Quality Control

Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111440011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6293435	114	96
6293436	108	87
Blank	113	73
LCS	115	78
LCSD	124	82
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111440020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6293424	95	89
6293425	83	86
6293426	102	97
6293427	87	85
6293428	88	83
6293429	101	88
6293430	90	82
6293431	103	103
6293432	97	91
6293433	95	87
Blank	111	101
LCS	97	91
LCSD	107	101
MS	105	91
MSD	98	91
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111510009A

	Butyraldehyde
6293424	104
6293425	91
6293426	108
6293427	104
Blank	90
LCS	100
MS	103
MSD	97
Limits:	64-126

Analysis Name: 19a Alcohols by 8015B
Batch number: 111400025A

	Acetone
6293424	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247820
Reported: 06/08/11 at 04:50 PM

Surrogate Quality Control

6293425	73
6293426	79
6293427	75
Blank	92
LCS	90
MS	124
MSD	91
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111430017A

	n-Triacontane-d62
6293424	80
6293425	82
6293426	81
6293427	81
Blank	89
LCS	87
MS	115
MSD	74
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111430018A

	Tetramethylene glycol
6293424	81
6293425	76
6293426	85
6293427	83
Blank	90
LCS	96
MS	78
MSD	77
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111440028A

	Chlorobenzene	Orthoterphenyl
6293424	60	81
6293425	64	81
6293426	69	85
6293427	57	76
Blank	85	95
LCS	88	97
MS	84	100
MSD	81	97
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1247820 Sample#6293424-36

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-066-SA5DN-SB-4.5	5/19/11	1435	SOIL	NONE	5-Encores										X	X	X										
SL-066-SA5DN-SB-4.0-5.0	5/19/11	1439	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SB-9.5	5/19/11	1443	SOIL	NONE	5-Encores										X	X	X										
SL-066-SA5DN-SB-9.0-10.0	5/19/11	1445	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SB-4.5	5/19/11	0830	SOIL	NONE	5-Encores										X	X	X										
SL-067-SA5DN-SB-4.0-5.0	5/19/11	0834	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SB-9.5	5/19/11	0838	SOIL	NONE	5-Encores										X	X	X										
SL-067-SA5DN-SB-9.0-10.0	5/19/11	0840	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-079-SA5DN-SB-4.5	5/19/11	0930	SOIL	NONE	4-Encores										X	X											
SL-079-SA5DN-SB-4.0-5.0	5/19/11	0934	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-079-SA5DN-SB-9.0-10.0	5/19/11	0939	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-080-SA5DN-SB-4.5	5/19/11	1040	SOIL	NONE	4-Encores										X	X											
SL-080-SA5DN-SB-4.0-5.0	5/19/11	1044	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-080-SA5DN-SB-8.0-9.0	5/19/11	1049	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-082-SA5DN-SB-4.5	5/19/11	1120	SOIL	NONE	4-Encores										X	X											
SL-082-SA5DN-SB-4.0-5.0	5/19/11	1124	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-206-SA5DN-SB-4.5	5/19/11	1405	SOIL	NONE	4-Encores										X	X											
SL-206-SA5DN-SB-4.0-5.0	5/19/11	1410	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
TB-051911	5/19/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/19/2011 / 1700	5/20/11 920 NMS 5/27/11	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7870; 8695 1441 7880 8695 1441 7891; 8695 1441 7906 8695 1441 7917; 8695 1441 7928	

acct# 13013 Cp# 1247820 sample# 6293424-36

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
Samplers Signatures:																				
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers															
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	NONE	5-1 liter ambers				X	X	X									
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	HNO3	1-500 mL poly		X													
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	None	1-500 mL poly			X				X	X	X						
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	HCl	6-40 mL vial												X	X		
EB04-SA5DN-SS-051911	5/19/11	1215	WATER	NONE	7-1 liter ambers				X	X	X				X	X				
EB04-SA5DN-SS-051911	5/19/11	1215	WATER	HNO3	1-500 mL poly		X													
EB04-SA5DN-SS-051911	5/19/11	1215	WATER	None	1-500 mL poly			X				X	X	X						
Relinquished by: (Signature)	Date/Time		Received for Laboratory by: (Signature)																Laboratory:	
	05/19/2011 / 1700		LLI 5/20/11 920																Lancaster Laboratories, Inc.	
Received by: (Signature)			Airbill No.(s) 8695 1441 7870; 8695 1441 7880 8695 1441 7891; 8695 1441 7906 8695 1441 7917; 8695 1441 7928																	

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Friday, May 27, 2011 2:30 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: RE: The COC for 5/19/2011

Nicole - I knew I would get an email from you sooner or later regarding this omission!

You are correct - the trip blank should be run for VOCs, 1,4-Dioxane, and GRO.

Thanks! Peggy

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Friday, May 27, 2011 11:28 AM
To: Bloisa, Peggy
Subject: FW: The COC for 5/19/2011

Hi Peggy,
I have a quick question for you on this COC. What should be run on the TB? Nothing is checked off. We entered it for VOCs, 1,4-Dioxane and GRO since all of those tests were requested on the soils. Let me know if you need GRO, if not, I can delete it off the TB entry.

Thanks!
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, May 19, 2011 7:36 PM
To: Laura Rainey; Burgesser, Todd; Zakowski, Cherie
Cc: Nicole Maljovec; SA Env Entry
Subject: RE: The COC for 5/19/2011

Is attached. Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/20/2011
Group Number: 1247821
SDG: DX083
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-066-SA5DN-SB-4.0-5.0 Soil	6293437
SL-066-SA5DN-SB-9.0-10.0 Soil	6293438
SL-067-SA5DN-SB-4.0-5.0 Soil	6293439
SL-067-SA5DN-SB-9.0-10.0 Soil	6293440
SL-079-SA5DN-SB-4.0-5.0 Soil	6293441
SL-079-SA5DN-SB-9.0-10.0 Soil	6293442
SL-080-SA5DN-SB-4.0-5.0 Soil	6293443
SL-080-SA5DN-SB-8.0-9.0 Soil	6293444
SL-082-SA5DN-SB-4.0-5.0 Soil	6293445
SL-206-SA5DN-SB-4.0-5.0 Soil	6293446
EB03-SA5DN-SB-051911 Water	6293447
EB04-SA5DN-SS-051911 Water	6293448

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293437
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X83-9 SDG#: DX083-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293437
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X83-9 SDG#: DX083-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0312 JB	0.0179	1.12	1
11031	12378-PeCDD	40321-76-4	0.0660 JBQ	0.0221	5.58	1
11031	123478-HxCDD	39227-28-6	0.0469 JBQ	0.0197	5.58	1
11031	123678-HxCDD	57653-85-7	0.151 JB	0.0203	5.58	1
11031	123789-HxCDD	19408-74-3	0.211 JB	0.0182	5.58	1
11031	1234678-HpCDD	35822-46-9	0.386 JBQ	0.0233	5.58	1
11031	OCDD	3268-87-9	1.22 JB	0.0263	11.2	1
11031	2378-TCDF	51207-31-9	0.0188 U	0.0188	1.12	1
11031	12378-PeCDF	57117-41-6	0.0723 JBQ	0.00905	5.58	1
11031	23478-PeCDF	57117-31-4	0.0803 JBQ	0.00905	5.58	1
11031	123478-HxCDF	70648-26-9	0.0545 JB	0.0175	5.58	1
11031	123678-HxCDF	57117-44-9	0.0560 JB	0.0158	5.58	1
11031	123789-HxCDF	72918-21-9	0.243 JB	0.0150	5.58	1
11031	234678-HxCDF	60851-34-5	0.0705 JBQ	0.0131	5.58	1
11031	1234678-HpCDF	67562-39-4	0.131 JB	0.0112	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0747 JBQ	0.0145	5.58	1
11031	OCDF	39001-02-0	0.210 JBQ	0.0329	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293437
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X83-9 SDG#: DX083-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293437
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X83-9 SDG#: DX083-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 05:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293438
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8310 SDG#: DX083-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293438
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8310 SDG#: DX083-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0202	U	0.0202	1.17	1
11031	12378-PeCDD	40321-76-4	0.0319	JB	0.0189	5.84	1
11031	123478-HxCDD	39227-28-6	0.0302	JBQ	0.0166	5.84	1
11031	123678-HxCDD	57653-85-7	0.0511	JB	0.0168	5.84	1
11031	123789-HxCDD	19408-74-3	0.0534	JB	0.0156	5.84	1
11031	1234678-HpCDD	35822-46-9	0.265	JB	0.0241	5.84	1
11031	OCDD	3268-87-9	0.651	JB	0.0296	11.7	1
11031	2378-TCDF	51207-31-9	0.0168	U	0.0168	1.17	1
11031	12378-PeCDF	57117-41-6	0.0311	JBQ	0.00931	5.84	1
11031	23478-PeCDF	57117-31-4	0.0760	JBQ	0.00859	5.84	1
11031	123478-HxCDF	70648-26-9	0.0597	JB	0.0113	5.84	1
11031	123678-HxCDF	57117-44-9	0.0623	JBQ	0.0104	5.84	1
11031	123789-HxCDF	72918-21-9	0.0691	JBQ	0.0124	5.84	1
11031	234678-HxCDF	60851-34-5	0.0725	JBQ	0.0107	5.84	1
11031	1234678-HpCDF	67562-39-4	0.162	JBQ	0.00990	5.84	1
11031	1234789-HpCDF	55673-89-7	0.0603	JBQ	0.0138	5.84	1
11031	OCDF	39001-02-0	0.213	JB	0.0289	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293438
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8310 SDG#: DX083-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-066-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293438
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:45

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8310 SDG#: DX083-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 05:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293439
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8311 SDG#: DX083-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293439
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8311 SDG#: DX083-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0213 JBQ	0.0209	1.14	1
11031	12378-PeCDD	40321-76-4	0.0351 JB	0.0190	5.68	1
11031	123478-HxCDD	39227-28-6	0.0370 JB	0.0192	5.68	1
11031	123678-HxCDD	57653-85-7	0.122 JBQ	0.0199	5.68	1
11031	123789-HxCDD	19408-74-3	0.248 JB	0.0185	5.68	1
11031	1234678-HpCDD	35822-46-9	0.582 JB	0.0300	5.68	1
11031	OCDD	3268-87-9	5.12 JB	0.0289	11.4	1
11031	2378-TCDF	51207-31-9	0.0183 U	0.0183	1.14	1
11031	12378-PeCDF	57117-41-6	0.0580 JBQ	0.0102	5.68	1
11031	23478-PeCDF	57117-31-4	0.0731 JBQ	0.00990	5.68	1
11031	123478-HxCDF	70648-26-9	0.0585 JBQ	0.0142	5.68	1
11031	123678-HxCDF	57117-44-9	0.0457 JBQ	0.0131	5.68	1
11031	123789-HxCDF	72918-21-9	0.274 JBQ	0.0155	5.68	1
11031	234678-HxCDF	60851-34-5	0.0591 JB	0.0122	5.68	1
11031	1234678-HpCDF	67562-39-4	0.136 JBQ	0.0115	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0485 JB	0.0150	5.68	1
11031	OCDF	39001-02-0	0.216 JB	0.0259	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293439
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8311 SDG#: DX083-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293439
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8311 SDG#: DX083-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 06:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293440
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8312 SDG#: DX083-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293440
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8312 SDG#: DX083-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0422 JBQ	0.0308	1.16	1
11031	12378-PeCDD	40321-76-4	0.0435 JBQ	0.0301	5.78	1
11031	123478-HxCDD	39227-28-6	0.0622 JB	0.0262	5.78	1
11031	123678-HxCDD	57653-85-7	0.174 JBQ	0.0278	5.78	1
11031	123789-HxCDD	19408-74-3	0.161 JB	0.0251	5.78	1
11031	1234678-HpCDD	35822-46-9	3.45 JB	0.0554	5.78	1
11031	OCDD	3268-87-9	26.7 B	0.0367	11.6	1
11031	2378-TCDF	51207-31-9	0.0325 JBQ	0.0287	1.16	1
11031	12378-PeCDF	57117-41-6	0.0371 JBQ	0.0155	5.78	1
11031	23478-PeCDF	57117-31-4	0.0914 JBQ	0.0152	5.78	1
11031	123478-HxCDF	70648-26-9	0.0572 JBQ	0.0230	5.78	1
11031	123678-HxCDF	57117-44-9	0.0578 JB	0.0210	5.78	1
11031	123789-HxCDF	72918-21-9	0.116 JB	0.0249	5.78	1
11031	234678-HxCDF	60851-34-5	0.0833 JB	0.0210	5.78	1
11031	1234678-HpCDF	67562-39-4	0.488 JB	0.0209	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0794 JBQ	0.0311	5.78	1
11031	OCDF	39001-02-0	1.09 JB	0.0485	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-067-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293440
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8312 SDG#: DX083-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-067-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293440
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:40

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8312 SDG#: DX083-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 07:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293441
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8313 SDG#: DX083-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293441
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8313 SDG#: DX083-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0180 U	0.0180	1.12	1
11031	12378-PeCDD	40321-76-4	0.0488 JBQ	0.0186	5.61	1
11031	123478-HxCDD	39227-28-6	0.0369 JB	0.0178	5.61	1
11031	123678-HxCDD	57653-85-7	0.115 JB	0.0185	5.61	1
11031	123789-HxCDD	19408-74-3	0.176 JB	0.0173	5.61	1
11031	1234678-HpCDD	35822-46-9	0.951 JB	0.0388	5.61	1
11031	OCDD	3268-87-9	17.2 B	0.0276	11.2	1
11031	2378-TCDF	51207-31-9	0.0177 U	0.0177	1.12	1
11031	12378-PeCDF	57117-41-6	0.0521 JBQ	0.00909	5.61	1
11031	23478-PeCDF	57117-31-4	0.0644 JBQ	0.00954	5.61	1
11031	123478-HxCDF	70648-26-9	0.0601 JBQ	0.0172	5.61	1
11031	123678-HxCDF	57117-44-9	0.0371 JBQ	0.0152	5.61	1
11031	123789-HxCDF	72918-21-9	0.188 JB	0.0186	5.61	1
11031	234678-HxCDF	60851-34-5	0.0772 JB	0.0149	5.61	1
11031	1234678-HpCDF	67562-39-4	0.289 JB	0.0139	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0524 JB	0.0213	5.61	1
11031	OCDF	39001-02-0	0.595 JB	0.0363	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293441
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8313 SDG#: DX083-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-079-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293441
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:34

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8313 SDG#: DX083-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 08:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293442
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8314 SDG#: DX083-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293442
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8314 SDG#: DX083-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0227 U	0.0227	1.19	1
11031	12378-PeCDD	40321-76-4	0.0854 JB	0.0238	5.95	1
11031	123478-HxCDD	39227-28-6	0.0616 JB	0.0199	5.95	1
11031	123678-HxCDD	57653-85-7	0.0742 JBQ	0.0207	5.95	1
11031	123789-HxCDD	19408-74-3	0.101 JBQ	0.0190	5.95	1
11031	1234678-HpCDD	35822-46-9	0.539 JB	0.0361	5.95	1
11031	OCDD	3268-87-9	6.37 JB	0.0264	11.9	1
11031	2378-TCDF	51207-31-9	0.0376 JB	0.0210	1.19	1
11031	12378-PeCDF	57117-41-6	0.0890 JB	0.0118	5.95	1
11031	23478-PeCDF	57117-31-4	0.132 JBQ	0.0114	5.95	1
11031	123478-HxCDF	70648-26-9	0.117 JB	0.0161	5.95	1
11031	123678-HxCDF	57117-44-9	0.0889 JB	0.0139	5.95	1
11031	123789-HxCDF	72918-21-9	0.0698 JBQ	0.0162	5.95	1
11031	234678-HxCDF	60851-34-5	0.0864 JB	0.0132	5.95	1
11031	1234678-HpCDF	67562-39-4	0.168 JB	0.0116	5.95	1
11031	1234789-HpCDF	55673-89-7	0.0380 JBQ	0.0154	5.95	1
11031	OCDF	39001-02-0	0.358 JB	0.0314	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293442
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8314 SDG#: DX083-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA5DN-SB-9.0-10.0

LLI Sample # SW 6293442
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:39

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8314 SDG#: DX083-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 09:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293443
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8315 SDG#: DX083-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293443
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8315 SDG#: DX083-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0265 U	0.0265	1.11	1
11031	12378-PeCDD	40321-76-4	0.147 JBQ	0.0278	5.57	1
11031	123478-HxCDD	39227-28-6	0.0739 JBQ	0.0235	5.57	1
11031	123678-HxCDD	57653-85-7	0.127 JBQ	0.0247	5.57	1
11031	123789-HxCDD	19408-74-3	0.189 JBQ	0.0231	5.57	1
11031	1234678-HpCDD	35822-46-9	0.651 JB	0.0343	5.57	1
11031	OCDD	3268-87-9	6.59 JB	0.0353	11.1	1
11031	2378-TCDF	51207-31-9	0.0506 JBQ	0.0247	1.11	1
11031	12378-PeCDF	57117-41-6	0.144 JB	0.0117	5.57	1
11031	23478-PeCDF	57117-31-4	0.133 JBQ	0.0124	5.57	1
11031	123478-HxCDF	70648-26-9	0.138 JB	0.0282	5.57	1
11031	123678-HxCDF	57117-44-9	0.118 JBQ	0.0240	5.57	1
11031	123789-HxCDF	72918-21-9	0.237 JB	0.0193	5.57	1
11031	234678-HxCDF	60851-34-5	0.101 JBQ	0.0174	5.57	1
11031	1234678-HpCDF	67562-39-4	0.136 JBQ	0.0130	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0794 JB	0.0171	5.57	1
11031	OCDF	39001-02-0	0.272 JBQ	0.0396	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293443
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8315 SDG#: DX083-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293443
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:44

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8315 SDG#: DX083-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 10:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293444
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8316 SDG#: DX083-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293444
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8316 SDG#: DX083-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243 U	0.0243	1.09	1
11031	12378-PeCDD	40321-76-4	0.0573 JBQ	0.0246	5.44	1
11031	123478-HxCDD	39227-28-6	0.0336 JB	0.0186	5.44	1
11031	123678-HxCDD	57653-85-7	0.0623 JBQ	0.0190	5.44	1
11031	123789-HxCDD	19408-74-3	0.0437 JBQ	0.0178	5.44	1
11031	1234678-HpCDD	35822-46-9	0.335 JB	0.0265	5.44	1
11031	OCDD	3268-87-9	2.76 JB	0.0394	10.9	1
11031	2378-TCDF	51207-31-9	0.0222 U	0.0222	1.09	1
11031	12378-PeCDF	57117-41-6	0.0363 JB	0.0106	5.44	1
11031	23478-PeCDF	57117-31-4	0.0551 JBQ	0.0109	5.44	1
11031	123478-HxCDF	70648-26-9	0.0339 JB	0.0147	5.44	1
11031	123678-HxCDF	57117-44-9	0.0523 JB	0.0122	5.44	1
11031	123789-HxCDF	72918-21-9	0.0522 JBQ	0.0148	5.44	1
11031	234678-HxCDF	60851-34-5	0.0512 JBQ	0.0112	5.44	1
11031	1234678-HpCDF	67562-39-4	0.102 JBQ	0.00862	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0336 JB	0.0129	5.44	1
11031	OCDF	39001-02-0	0.174 JB	0.0375	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293444
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8316 SDG#: DX083-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-080-SA5DN-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA5DN-SB-8.0-9.0

LLI Sample # SW 6293444
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:49

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8316 SDG#: DX083-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 11:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293445
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8317 SDG#: DX083-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293445
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X8317 SDG#: DX083-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0265 JBQ	0.0213	1.08	1
11031	12378-PeCDD	40321-76-4	0.0180 U	0.0180	5.38	1
11031	123478-HxCDD	39227-28-6	0.0268 JB	0.0146	5.38	1
11031	123678-HxCDD	57653-85-7	0.0680 JB	0.0154	5.38	1
11031	123789-HxCDD	19408-74-3	0.0970 JBQ	0.0143	5.38	1
11031	1234678-HpCDD	35822-46-9	0.419 JBQ	0.0260	5.38	1
11031	OCDD	3268-87-9	3.19 JB	0.0241	10.8	1
11031	2378-TCDF	51207-31-9	0.0170 U	0.0170	1.08	1
11031	12378-PeCDF	57117-41-6	0.0343 JBQ	0.00873	5.38	1
11031	23478-PeCDF	57117-31-4	0.0715 JB	0.00862	5.38	1
11031	123478-HxCDF	70648-26-9	0.0742 JB	0.0156	5.38	1
11031	123678-HxCDF	57117-44-9	0.0414 JBQ	0.0132	5.38	1
11031	123789-HxCDF	72918-21-9	0.0761 JB	0.0127	5.38	1
11031	234678-HxCDF	60851-34-5	0.0381 JB	0.00961	5.38	1
11031	1234678-HpCDF	67562-39-4	0.104 JBQ	0.00961	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0754 JBQ	0.0123	5.38	1
11031	OCDF	39001-02-0	0.245 JBQ	0.0258	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293445
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8317 SDG#: DX083-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-082-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293445
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:24

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
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Chantilly VA 20151

X8317 SDG#: DX083-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 17:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Analysis Report

Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293446
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8318 SDG#: DX083-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293446
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8318 SDG#: DX083-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0181 U	0.0181	1.14	1
11031	12378-PeCDD	40321-76-4	0.0505 JBQ	0.0195	5.72	1
11031	123478-HxCDD	39227-28-6	0.0348 JBQ	0.0153	5.72	1
11031	123678-HxCDD	57653-85-7	0.0679 JBQ	0.0163	5.72	1
11031	123789-HxCDD	19408-74-3	0.0915 JBQ	0.0148	5.72	1
11031	1234678-HpCDD	35822-46-9	0.531 JB	0.0271	5.72	1
11031	OCDD	3268-87-9	6.22 JB	0.0248	11.4	1
11031	2378-TCDF	51207-31-9	0.0168 U	0.0168	1.14	1
11031	12378-PeCDF	57117-41-6	0.0304 JBQ	0.00953	5.72	1
11031	23478-PeCDF	57117-31-4	0.0811 JB	0.00987	5.72	1
11031	123478-HxCDF	70648-26-9	0.0726 JBQ	0.0134	5.72	1
11031	123678-HxCDF	57117-44-9	0.0533 JBQ	0.0111	5.72	1
11031	123789-HxCDF	72918-21-9	0.0812 JB	0.0123	5.72	1
11031	234678-HxCDF	60851-34-5	0.0455 JBQ	0.00987	5.72	1
11031	1234678-HpCDF	67562-39-4	0.112 JBQ	0.00838	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0567 JBQ	0.0123	5.72	1
11031	OCDF	39001-02-0	0.269 JB	0.0257	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-206-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293446
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8318 SDG#: DX083-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-206-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-206-SA5DN-SB-4.0-5.0

LLI Sample # SW 6293446
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:10

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
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Chantilly VA 20151

X8318 SDG#: DX083-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151002	06/04/2011 18:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151002	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB03-SA5DN-SB-051911 Water
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293447
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8319 SDG#: DX083-19EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	1234678-HpCDD	35822-46-9	1.93	JB	0.232	10.2	1
10915	1234678-HpCDF	67562-39-4	0.835	JB	0.104	10.2	1
10915	1234789-HpCDF	55673-89-7	0.225	JB	0.112	10.2	1
10915	123478-HxCDD	39227-28-6	0.262	JB	0.173	10.2	1
10915	123478-HxCDF	70648-26-9	0.214	JBQ	0.162	10.2	1
10915	123678-HxCDD	57653-85-7	0.213	JB	0.174	10.2	1
10915	123678-HxCDF	57117-44-9	0.319	JBQ	0.152	10.2	1
10915	123789-HxCDD	19408-74-3	0.163	U	0.163	10.2	1
10915	123789-HxCDF	72918-21-9	0.181	JB	0.150	10.2	1
10915	12378-PeCDD	40321-76-4	0.235	U	0.235	10.2	1
10915	12378-PeCDF	57117-41-6	0.198	JBQ	0.120	10.2	1
10915	234678-HxCDF	60851-34-5	0.504	JBQ	0.130	10.2	1
10915	23478-PeCDF	57117-31-4	0.382	JB	0.107	10.2	1
10915	2378-TCDD	1746-01-6	0.240	U	0.240	2.03	1
10915	2378-TCDF	51207-31-9	0.230	U	0.230	2.03	1
10915	OCDD	3268-87-9	3.12	JB	0.219	20.3	1
10915	OCDF	39001-02-0	0.690	JBQ	0.262	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	58	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB03-SA5DN-SB-051911 Water**
SSFL Area IV Collocated Soil Sampling
EB03-SA5DN-SB-051911

LLI Sample # WW 6293447
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:50

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8319 SDG#: DX083-19EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140002	05/25/2011 14:22	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11140002	05/21/2011 11:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB04-SA5DN-SS-051911 Water
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293448
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8320 SDG#: DX083-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	1234678-HpCDD	35822-46-9	2.11	JBQ	0.211	10.2	1
10915	1234678-HpCDF	67562-39-4	0.806	JBQ	0.0998	10.2	1
10915	1234789-HpCDF	55673-89-7	0.254	JB	0.110	10.2	1
10915	123478-HxCDD	39227-28-6	0.169	U	0.169	10.2	1
10915	123478-HxCDF	70648-26-9	0.335	JBQ	0.161	10.2	1
10915	123678-HxCDD	57653-85-7	0.357	JBQ	0.167	10.2	1
10915	123678-HxCDF	57117-44-9	0.207	JBQ	0.153	10.2	1
10915	123789-HxCDD	19408-74-3	0.274	JBQ	0.153	10.2	1
10915	123789-HxCDF	72918-21-9	0.147	U	0.147	10.2	1
10915	12378-PeCDD	40321-76-4	0.247	U	0.247	10.2	1
10915	12378-PeCDF	57117-41-6	0.200	JBQ	0.131	10.2	1
10915	234678-HxCDF	60851-34-5	0.487	JB	0.140	10.2	1
10915	23478-PeCDF	57117-31-4	0.327	JBQ	0.123	10.2	1
10915	2378-TCDD	1746-01-6	0.273	JBQ	0.262	2.04	1
10915	2378-TCDF	51207-31-9	0.253	U	0.253	2.04	1
10915	OCDD	3268-87-9	3.64	JBQ	0.200	20.4	1
10915	OCDF	39001-02-0	0.985	JBQ	0.288	20.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB04-SA5DN-SS-051911 Water**
SSFL Area IV Collocated Soil Sampling
EB04-SA5DN-SS-051911

LLI Sample # WW 6293448
LLI Group # 1247821
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:15

Submitted: 05/20/2011 09:20
Reported: 06/07/2011 21:47

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8320 SDG#: DX083-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11140002	05/25/2011 15:18	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11140002	05/21/2011 11:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247821
Reported: 06/07/11 at 09:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11152162401B	Sample number(s): 6293437-6293446									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11140002	Sample number(s): 6293447-6293448									
2378-TCDD	0.410	J	0.280	2.00	pg/l	101		67-158		
2378-TCDF	0.263	U	0.263	2.00	pg/l	101		75-158		
12378-PeCDD	1.03	J	0.308	10.0	pg/l	109		70-142		
12378-PeCDF	0.573	J	0.154	10.0	pg/l	106		80-134		
23478-PeCDF	0.830	J	0.141	10.0	pg/l	103		68-160		
123478-HxCDD	0.648	J	0.199	10.0	pg/l	112		70-164		
123678-HxCDD	0.598	J	0.208	10.0	pg/l	110		76-134		
123789-HxCDD	0.427	J	0.206	10.0	pg/l	112		64-162		
123478-HxCDF	0.579	J	0.181	10.0	pg/l	114		72-134		
123678-HxCDF	0.716	J	0.182	10.0	pg/l	113		84-130		
123789-HxCDF	1.14	J	0.202	10.0	pg/l	113		78-130		
234678-HxCDF	0.697	J	0.175	10.0	pg/l	111		70-156		
1234678-HpCDD	2.50	J	0.308	10.0	pg/l	118		70-140		
1234678-HpCDF	1.49	J	0.128	10.0	pg/l	119		82-122		
1234789-HpCDF	0.992	J	0.166	10.0	pg/l	118		78-138		
OCDD	6.14	J	0.365	20.0	pg/l	128		78-144		
OCDF	3.26	J	0.430	20.0	pg/l	126		63-170		
Batch number: 11151002	Sample number(s): 6293437-6293446									
2378-TCDD	0.0427	J	0.0189	1.00	ng/kg	96		67-158		
12378-PeCDD	0.125	J	0.0193	5.00	ng/kg	101		70-142		
123478-HxCDD	0.107	J	0.0183	5.00	ng/kg	101		70-164		
123678-HxCDD	0.114	J	0.0190	5.00	ng/kg	105		76-134		
123789-HxCDD	0.149	J	0.0185	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.286	J	0.0221	5.00	ng/kg	101		70-140		
OCDD	0.448	J	0.0200	10.0	ng/kg	100		78-144		
2378-TCDF	0.0225	J	0.0181	1.00	ng/kg	107		75-158		
12378-PeCDF	0.132	J	0.0101	5.00	ng/kg	100		80-134		
23478-PeCDF	0.151	J	0.0100	5.00	ng/kg	100		68-160		
123478-HxCDF	0.144	J	0.0190	5.00	ng/kg	100		72-134		
123678-HxCDF	0.124	J	0.0165	5.00	ng/kg	100		84-130		
123789-HxCDF	0.206	J	0.0177	5.00	ng/kg	100		78-130		
234678-HxCDF	0.134	J	0.0149	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.161	J	0.0106	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.174	J	0.0139	5.00	ng/kg	100		78-138		
OCDF	0.332	J	0.0253	10.0	ng/kg	100		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247821
Reported: 06/07/11 at 09:47 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11152162401B	Sample number(s): 6293437-6293446					BKG: P292005			
Moisture Content by 160.3						14.1	13.3	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11140002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6293447	65	65	52	54	60	62
6293448	65	68	52	52	59	64
Blank	71	71	64	65	66	67
OPR	59	57	52	52	53	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6293447	54	64	65	87	66	59
6293448	57	64	69	98	68	60
Blank	63	62	57	101	72	68
OPR	50	49	46	90	57	55
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6293447	58	64	65	69	66	63
6293448	59	64	68	73	68	65
Blank	69	68	66	61	73	69
OPR	55	56	54	49	59	55
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11151002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6293437	60	61	46	51	60	60
6293438	63	67	65	68	66	67
6293439	59	64	60	64	68	65
6293440	58	60	58	62	62	61
6293441	62	62	57	65	63	59
6293442	66	67	58	65	70	66
6293443	58	58	37	43	59	61

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247821
Reported: 06/07/11 at 09:47 PM

Surrogate Quality Control

6293444	60	61	51	59	65	57
6293445	56	61	40	46	64	58
6293446	67	69	54	63	70	66
Blank	73	78	65	72	81	82
OPR	62	66	61	66	69	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6293437	59	57	54	72	64	59
6293438	72	62	57	74	70	66
6293439	71	64	61	77	66	67
6293440	73	60	58	74	64	63
6293441	74	57	53	73	67	65
6293442	74	66	62	76	70	71
6293443	58	55	51	72	61	60
6293444	71	57	53	73	66	67
6293445	61	59	54	72	63	66
6293446	76	63	58	77	72	71
Blank	86	78	77	92	80	83
OPR	76	67	65	79	68	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6293437	59	63	65	63	58	66
6293438	65	68	68	65	61	69
6293439	65	70	70	67	58	65
6293440	63	66	69	69	55	64
6293441	66	69	68	66	59	68
6293442	69	73	74	72	63	71
6293443	60	62	64	63	55	64
6293444	66	69	70	67	56	69
6293445	65	66	67	64	55	64
6293446	71	75	75	72	63	75
Blank	80	84	88	89	70	80
OPR	66	73	74	73	60	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1247821 Sample#6293437-48

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-066-SA5DN-SB-4.5	5/19/11	1435	SOIL	NONE	5-Encores										X	X	X										
SL-066-SA5DN-SB-4.0-5.0	5/19/11	1439	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SB-9.5	5/19/11	1443	SOIL	NONE	5-Encores										X	X	X										
SL-066-SA5DN-SB-9.0-10.0	5/19/11	1445	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SB-4.5	5/19/11	0830	SOIL	NONE	5-Encores										X	X	X										
SL-067-SA5DN-SB-4.0-5.0	5/19/11	0834	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-067-SA5DN-SB-9.5	5/19/11	0838	SOIL	NONE	5-Encores										X	X	X										
SL-067-SA5DN-SB-9.0-10.0	5/19/11	0840	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-079-SA5DN-SB-4.5	5/19/11	0930	SOIL	NONE	4-Encores										X	X											
SL-079-SA5DN-SB-4.0-5.0	5/19/11	0934	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-079-SA5DN-SB-9.0-10.0	5/19/11	0939	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-080-SA5DN-SB-4.5	5/19/11	1040	SOIL	NONE	4-Encores										X	X											
SL-080-SA5DN-SB-4.0-5.0	5/19/11	1044	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-080-SA5DN-SB-8.0-9.0	5/19/11	1049	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-082-SA5DN-SB-4.5	5/19/11	1120	SOIL	NONE	4-Encores										X	X											
SL-082-SA5DN-SB-4.0-5.0	5/19/11	1124	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-206-SA5DN-SB-4.5	5/19/11	1405	SOIL	NONE	4-Encores										X	X											
SL-206-SA5DN-SB-4.0-5.0	5/19/11	1410	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
TB-051911	5/19/11	1430	WATER	HCl	4-40 mL VOA VIALS																						TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/19/2011 / 1700	5/20/11 920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7870; 8695 1441 7880 8695 1441 7891; 8695 1441 7906 8695 1441 7917; 8695 1441 7928	

acct# 13013 Cp# 1247821 sample# 6293437-48

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Samplers Signatures:						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers														
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	NONE	5-1 liter ambers			X	X	X									
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	HNO3	1-500 mL poly	X													
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	None	1-500 mL poly		X				X	X	X						
EB03-SA5DN-SB-051911	5/19/11	0950	WATER	HCl	6-40 mL vial											X	X		
EB04-SA5DN-SS-051911	5/19/11	1215	WATER	NONE	7-1 liter ambers			X	X	X				X	X				
EB04-SA5DN-SS-051911	5/19/11	1215	WATER	HNO3	1-500 mL poly	X													
EB04-SA5DN-SS-051911	5/19/11	1215	WATER	None	1-500 mL poly		X				X	X	X						
Relinquished by: (*Signature*)	Date/Time		Received for Laboratory by: (*Signature*)																Laboratory:
	05/19/2011 / 1700		LI 5/20/11 920																Lancaster Laboratories, Inc.
Received by: (*Signature*)			Airbill No.(s) 8695 1441 7870; 8695 1441 7880 8695 1441 7891; 8695 1441 7906 8695 1441 7917; 8695 1441 7928																

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/20/2011
Group Number: 1247822
SDG: DE157
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-030-SA5DN-SS-0.0-0.5 Soil	6293449
SL-031-SA5DN-SS-0.0-0.5 Soil	6293450
SL-032-SA5DN-SS-0.0-0.5 Soil	6293451
SL-033-SA5DN-SS-0.0-0.5 Soil	6293452
SL-034-SA5DN-SS-0.0-0.5 Soil	6293453
SL-035-SA5DN-SS-0.0-0.5 Soil	6293454
SL-041-SA5DN-SS-0.0-0.5 Soil	6293455
SL-042-SA5DN-SS-0.0-0.5 Soil	6293456
SL-043-SA5DN-SS-0.0-0.5 Soil	6293457
SL-043-SA5DN-SS-0.0-0.5MS Soil	6293458
SL-043-SA5DN-SS-0.0-0.5MSD Soil	6293459
SL-043-SA5DN-SS-0.0-0.5DUP Soil	6293460
SL-045-SA5DN-SS-0.0-0.5 Soil	6293461
SL-046-SA5DN-SS-0.0-0.5 Soil	6293462
SL-047-SA5DN-SS-0.0-0.5 Soil	6293463
SL-048-SA5DN-SS-0.0-0.5 Soil	6293464
SL-049-SA5DN-SS-0.0-0.5 Soil	6293465
DUP-04-SA5DN-QC-051911 Soil	6293466

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

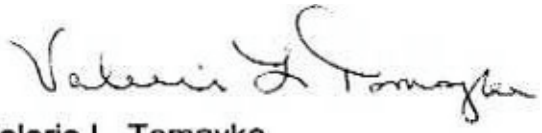
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	257	J	192	383		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	12	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.40	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	380		87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

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Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.6	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.35	U	0.35	0.39		1
01363	p,p-DDT	50-29-3	0.51	U	0.51	0.51		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	1.1	U	1.1	1.1		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.043	U	0.043	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.6		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	4.9	J	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	27		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	86		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.5	U	3.5	8.1		2
10318	o-Terphenyl	84-15-1	3.5	U	3.5	8.1		2
10318	p-Terphenyl	92-94-4	3.5	U	3.5	8.1		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,400		5.71	22.7		1
07914	Boron	7440-42-8	12.1		1.01	5.67		1
01650	Calcium	7440-70-2	17,400		6.96	22.7		1
01654	Iron	7439-89-6	40,600		26.7	113		5
01656	Lithium	7439-93-2	27.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,800		2.88	11.3		1
06958	Manganese	7439-96-5	383		0.0885	0.567		1
10145	Phosphorus	7723-14-0	377		0.635	11.3		1
01662	Potassium	7440-09-7	3,630		20.4	56.7		1
01667	Sodium	7440-23-5	131		42.3	113		1
07968	Strontium	7440-24-6	46.8		0.0704	0.567		1
06969	Tin	7440-31-5	2.83	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,290		0.431	1.13		1
10146	Zirconium	7440-67-7	3.83	J	0.953	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.217	J	0.0668	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.88		0.0890	0.445		2
06126	Barium	7440-39-3	135		0.120	0.445		2
06127	Beryllium	7440-41-7	0.847		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.260		0.0445	0.111		2
06131	Chromium	7440-47-3	32.0		0.134	0.445		2
06132	Cobalt	7440-48-4	11.2		0.0223	0.111		2
06133	Copper	7440-50-8	17.0		0.0735	0.445		2
06135	Lead	7439-92-1	10.8		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.396		0.0556	0.111		2
06139	Nickel	7440-02-0	21.5		0.111	0.445		2
06141	Selenium	7782-49-2	0.0856	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0459	J	0.0134	0.111		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.452		0.0334	0.111		2
06148	Vanadium	7440-62-2	64.5		0.0245	0.111		2
06149	Zinc	7440-66-6	79.5		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 11:51	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 05:23	Ryan P Byrne	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 00:00	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/27/2011 20:27	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111510009A	06/01/2011 20:22	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111430022A	05/25/2011 05:56	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 04:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 04:20	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111430022A	05/24/2011 02:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/01/2011 23:33	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 14:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 13:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 08:31	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:35	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293449
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15701 SDG#: DE157-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 13:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 04:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 06:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 06:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 06:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11145243201A	05/26/2011 15:39	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039401B	05/24/2011 21:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15702 SDG#: DE157-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	303	J	192	385		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15702 SDG#: DE157-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.8	J	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1

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Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15702 SDG#: DE157-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	210	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1

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Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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15702 SDG#: DE157-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.95	J	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.39		1
01363	p,p-DDE	72-55-9	0.15	J	0.077	0.39		1
01363	p,p-DDT	50-29-3	0.78		0.077	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.15	J	0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.12	J	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that p,p DDT was not detected in the reextract. The DDT recovery associated with the LCS for both the original and rextraction batch is outside the upper QC limit.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	1.2	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15702 SDG#: DE157-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.5		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	5.1		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	20		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,900		5.62	22.3		1
07914	Boron	7440-42-8	11.3		0.994	5.58		1
01650	Calcium	7440-70-2	39,700		6.85	22.3		1
01654	Iron	7439-89-6	32,700		26.3	112		5
01656	Lithium	7439-93-2	29.0		0.25	2.2		1
01657	Magnesium	7439-95-4	6,860		2.84	11.2		1
06958	Manganese	7439-96-5	247		0.0871	0.558		1
10145	Phosphorus	7723-14-0	196		0.625	11.2		1
01662	Potassium	7440-09-7	2,760		20.1	55.8		1
01667	Sodium	7440-23-5	153		41.7	112		1
07968	Strontium	7440-24-6	49.8		0.0692	0.558		1
06969	Tin	7440-31-5	2.87	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,250		0.424	1.12		1
10146	Zirconium	7440-67-7	3.79	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.245		0.0690	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.18		0.0920	0.460		2
06126	Barium	7440-39-3	151		0.124	0.460		2
06127	Beryllium	7440-41-7	0.882		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.217		0.0460	0.115		2

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Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15702 SDG#: DE157-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	37.0	0.138	0.460		2
06132	Cobalt	7440-48-4	8.85	0.0230	0.115		2
06133	Copper	7440-50-8	17.7	0.0759	0.460		2
06135	Lead	7439-92-1	11.5	0.0120	0.230		2
06138	Molybdenum	7439-98-7	0.276	0.0575	0.115		2
06139	Nickel	7440-02-0	21.2	0.115	0.460		2
06141	Selenium	7782-49-2	0.0615 J	0.0460	0.460		2
06142	Silver	7440-22-4	0.0362 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.445	0.0342	0.114		2
06148	Vanadium	7440-62-2	67.5	0.0253	0.115		2
06149	Zinc	7440-66-6	67.0	0.644	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93 U	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2	0.93	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.03	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
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15702 SDG#: DE157-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 12:07	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 05:48	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 00:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/27/2011 21:10	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111510009A	06/01/2011 20:32	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111430022A	05/25/2011 06:23	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 04:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 04:39	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111430022A	05/24/2011 02:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/01/2011 23:08	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 14:52	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 14:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 07:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:39	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293450
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15702 SDG#: DE157-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 13:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 04:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 06:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 06:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 07:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11145243201A	05/26/2011 15:51	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:32	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	63.8		18.6	37.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	260		18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.58	J	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.6	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.5		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	5.2		0.73	1.8		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	3.2		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	5.2		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.75	J	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.84	J	0.73	1.8		1
10138	Naphthalene	91-20-3	1.4	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.5	J	6.6	20		1
10138	Phenanthrene	85-01-8	2.8		0.73	1.8		1
10138	Pyrene	129-00-0	3.4		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1

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Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	84	U	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.10	J	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	1.5	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38		1
01363	p,p-DDT	50-29-3	1.2		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.22	U	0.22	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.4		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.4		2
10225	Aroclor 5460	11126-42-4	3.5	J	2.2	7.4		2
10225	PCB-1016	12674-11-2	0.74	U	0.74	3.8		2
10225	PCB-1221	11104-28-2	0.74	U	0.74	3.8		2
10225	PCB-1232	11141-16-5	0.74	U	0.74	3.8		2
10225	PCB-1242	53469-21-9	0.74	U	0.74	3.8		2
10225	PCB-1248	12672-29-6	0.74	U	0.74	3.8		2
10225	PCB-1254	11097-69-1	0.74	U	0.74	3.8		2
10225	PCB-1260	11096-82-5	4.4		0.87	3.8		2
10225	PCB-1262	37324-23-5	0.74	U	0.74	3.8		2
10225	PCB-1268	11100-14-4	0.74	U	0.74	3.8		2
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.7		5

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Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	4.9	J	2.2	6.7		5
10199	EFH (C21-C30)	n.a.	31		2.2	6.7		5
10199	EFH (C30 - C40)	n.a.	120		2.2	6.7		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.7		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.4	U	3.4	7.8		2
10318	o-Terphenyl	84-15-1	3.4	U	3.4	7.8		2
10318	p-Terphenyl	92-94-4	3.4	U	3.4	7.8		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,900		5.52	21.9		1
07914	Boron	7440-42-8	1.34	J	0.976	5.48		1
01650	Calcium	7440-70-2	11,200		6.72	21.9		1
01654	Iron	7439-89-6	51,800		25.8	110		5
01656	Lithium	7439-93-2	27.5		0.24	2.2		1
01657	Magnesium	7439-95-4	6,930		2.79	11.0		1
06958	Manganese	7439-96-5	423		0.0855	0.548		1
10145	Phosphorus	7723-14-0	324		0.614	11.0		1
01662	Potassium	7440-09-7	3,760		19.7	54.8		1
01667	Sodium	7440-23-5	128		40.9	110		1
07968	Strontium	7440-24-6	42.5		0.0680	0.548		1
06969	Tin	7440-31-5	2.96	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,210		0.417	1.10		1
10146	Zirconium	7440-67-7	2.53	J	0.921	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.325		0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.98		0.0895	0.447		2
06126	Barium	7440-39-3	140		0.121	0.447		2
06127	Beryllium	7440-41-7	1.14		0.0179	0.112		2

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Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.311		0.0447	0.112		2
06131	Chromium	7440-47-3	47.3		0.134	0.447		2
06132	Cobalt	7440-48-4	15.0		0.0224	0.112		2
06133	Copper	7440-50-8	26.6		0.0738	0.447		2
06135	Lead	7439-92-1	16.6		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.625		0.0559	0.112		2
06139	Nickel	7440-02-0	33.9		0.112	0.447		2
06141	Selenium	7782-49-2	0.137	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0963	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.486		0.0336	0.112		2
06148	Vanadium	7440-62-2	86.4		0.0246	0.112		2
06149	Zinc	7440-66-6	126		0.626	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0116	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.89	U	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	05/25/2011 23:53	Gregory J Drahovsky	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 06:14	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 01:03	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/27/2011 21:52	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111510009A	06/01/2011 20:41	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/06/2011 22:10	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:20	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 04:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 04:57	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/01/2011 23:58	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 15:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 14:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 09:15	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:42	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1

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Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/27/2011 08:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 04:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 06:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 06:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 07:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 16:08	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:33	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293451
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15703 SDG#: DE157-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293452
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15704 SDG#: DE157-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	260	J	193	386		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

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Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293452
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15704 SDG#: DE157-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.7		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.7		5
10138	Benzo(a)anthracene	56-55-3	3.9	U	3.9	9.7		5
10138	Benzo(a)pyrene	50-32-8	3.9	U	3.9	9.7		5
10138	Benzo(b)fluoranthene	205-99-2	4.4	J	3.9	9.7		5
10138	Benzo(g,h,i)perylene	191-24-2	3.9	U	3.9	9.7		5
10138	Benzo(k)fluoranthene	207-08-9	5.8	J	3.9	9.7		5
10138	Butylbenzylphthalate	85-68-7	36	J	35	100		5
10138	Chrysene	218-01-9	5.0	J	1.9	9.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.7		5
10138	Fluoranthene	206-44-0	7.0	J	3.9	9.7		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.7		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7		5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.7		5
10138	Pyrene	129-00-0	4.1	J	3.9	9.7		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

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LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15704 SDG#: DE157-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.35	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.10	J	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.7	U	4.7	14		10
10199	EFH (C15-C20)	n.a.	6.2	J	4.7	14		10
10199	EFH (C21-C30)	n.a.	25		4.7	14		10

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SL-033-SA5DN-SS-0.0-0.5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	160		4.7	14		10
10199	EFH (C8-C11)	n.a.	4.7	U	4.7	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,900		5.77	22.9		1
07914	Boron	7440-42-8	12.4		1.02	5.73		1
01650	Calcium	7440-70-2	13,700		7.03	22.9		1
01654	Iron	7439-89-6	31,000		27.0	115		5
01656	Lithium	7439-93-2	27.3		0.25	2.3		1
01657	Magnesium	7439-95-4	7,190		2.91	11.5		1
06958	Manganese	7439-96-5	371		0.0894	0.573		1
10145	Phosphorus	7723-14-0	378		0.642	11.5		1
01662	Potassium	7440-09-7	3,680		20.6	57.3		1
01667	Sodium	7440-23-5	121		42.8	115		1
07968	Strontium	7440-24-6	43.6		0.0711	0.573		1
06969	Tin	7440-31-5	2.67	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,210		0.436	1.15		1
10146	Zirconium	7440-67-7	3.88	J	0.963	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.367		0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.0		0.0900	0.450		2
06126	Barium	7440-39-3	142		0.304	1.12		5
06127	Beryllium	7440-41-7	1.10		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.453		0.0450	0.112		2
06131	Chromium	7440-47-3	46.9		0.135	0.450		2
06132	Cobalt	7440-48-4	16.4		0.0225	0.112		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293452
LLI Group # 1247822
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Project Name: SSFL Area IV Collocated Soil Sampling

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	26.4		0.0742	0.450		2
06135	Lead	7439-92-1	15.3		0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.650		0.0562	0.112		2
06139	Nickel	7440-02-0	33.0		0.112	0.450		2
06141	Selenium	7782-49-2	0.181	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0754	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.496		0.0341	0.114		2
06148	Vanadium	7440-62-2	86.7		0.0247	0.112		2
06149	Zinc	7440-66-6	120		0.630	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94	U	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293452
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15704 SDG#: DE157-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 12:24	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 06:39	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 01:35	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/27/2011 22:35	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111510009A	06/01/2011 20:51	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111430022A	05/25/2011 07:18	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 04:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 05:15	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111430022A	05/24/2011 02:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 00:47	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 15:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 14:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 07:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:46	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293452
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15704 SDG#: DE157-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:53	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:14	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 04:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 07:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 07:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 09:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 16:19	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15705 SDG#: DE157-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	91.8		18.2	36.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15705 SDG#: DE157-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.82	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.95	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.8		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	1.3	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.1	J	6.5	20		1
10138	Fluoranthene	206-44-0	2.5		0.72	1.8		1
10138	Fluorene	86-73-7	0.85	J	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.72	1.8		1
10138	Pyrene	129-00-0	1.5	J	0.72	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1

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Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15705 SDG#: DE157-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	160	J	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.40		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.091	J	0.082	0.19		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15705 SDG#: DE157-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	8.6	U	8.6	8.6		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	2.0		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.097	U	0.097	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	5.9		0.36	1.9		5
01363	Endosulfan I	959-98-8	0.068	J	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2		2
10225	Aroclor 5460	11126-42-4	2.2	U	2.2	7.2		2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7		2
10225	PCB-1221	11104-28-2	0.72	U	0.72	3.7		2
10225	PCB-1232	11141-16-5	0.72	U	0.72	3.7		2
10225	PCB-1242	53469-21-9	0.72	U	0.72	3.7		2
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7		2
10225	PCB-1254	11097-69-1	0.72	U	0.72	3.7		2
10225	PCB-1260	11096-82-5	0.85	U	0.85	3.7		2
10225	PCB-1262	37324-23-5	0.72	U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72	U	0.72	3.7		2

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.8	U	8.8	26		20
10199	EFH (C15-C20)	n.a.	8.8	U	8.8	26		20
10199	EFH (C21-C30)	n.a.	73		8.8	26		20
10199	EFH (C30 - C40)	n.a.	440		8.8	26		20
10199	EFH (C8-C11)	n.a.	8.8	U	8.8	26		20

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Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15705 SDG#: DE157-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.3	U	3.3	7.7		2
10318	o-Terphenyl	84-15-1	3.3	U	3.3	7.7		2
10318	p-Terphenyl	92-94-4	3.3	U	3.3	7.7		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,400		5.38	21.4		1
07914	Boron	7440-42-8	11.6		0.952	5.35		1
01650	Calcium	7440-70-2	13,800		6.55	21.4		1
01654	Iron	7439-89-6	31,100		25.2	107		5
01656	Lithium	7439-93-2	25.2		0.24	2.1		1
01657	Magnesium	7439-95-4	6,570		2.72	10.7		1
06958	Manganese	7439-96-5	380		0.0834	0.535		1
10145	Phosphorus	7723-14-0	359		0.599	10.7		1
01662	Potassium	7440-09-7	3,610		19.2	53.5		1
01667	Sodium	7440-23-5	145		39.9	107		1
07968	Strontium	7440-24-6	42.4		0.0663	0.535		1
06969	Tin	7440-31-5	2.68	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,220		0.406	1.07		1
10146	Zirconium	7440-67-7	3.37	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.355		0.0648	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.38		0.0864	0.432		2
06126	Barium	7440-39-3	119		0.292	1.08		5
06127	Beryllium	7440-41-7	1.04		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.525		0.0432	0.108		2
06131	Chromium	7440-47-3	38.8		0.130	0.432		2
06132	Cobalt	7440-48-4	14.8		0.0216	0.108		2
06133	Copper	7440-50-8	24.2		0.0713	0.432		2
06135	Lead	7439-92-1	16.7		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.567		0.0540	0.108		2
06139	Nickel	7440-02-0	28.1		0.108	0.432		2
06141	Selenium	7782-49-2	0.110	J	0.0432	0.432		2

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Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15705 SDG#: DE157-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06142	Silver	7440-22-4	0.0730	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.352		0.0330	0.110		2
06148	Vanadium	7440-62-2	74.4		0.0238	0.108		2
06149	Zinc	7440-66-6	112		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.88	U	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/06/2011 16:58	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 07:04	Ryan P Byrne	1

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Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
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15705 SDG#: DE157-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 02:07	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 00:42	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 21:01	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/06/2011 22:37	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 05:02	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 05:15	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 05:34	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 03:17	Heather E Williams	20
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 15:38	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111430018A	05/24/2011 15:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 12:15	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111430018A	05/23/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:57	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1

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Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
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SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293453
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15705 SDG#: DE157-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:17	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 04:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 07:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 07:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 09:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 16:31	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15706 SDG#: DE157-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

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Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15706 SDG#: DE157-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.5		5
10138	Benzo(a)pyrene	50-32-8	3.8	U	3.8	9.5		5
10138	Benzo(b)fluoranthene	205-99-2	3.8	U	3.8	9.5		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.5		5
10138	Benzo(k)fluoranthene	207-08-9	5.0	J	3.8	9.5		5
10138	Chrysene	218-01-9	3.5	J	1.9	9.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.5		5
10138	Fluoranthene	206-44-0	5.0	J	3.8	9.5		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.5		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5		5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.5		5
10138	Pyrene	129-00-0	3.8	U	3.8	9.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1

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Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15706 SDG#: DE157-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	160	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.10	J	0.087	0.20		1
	Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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15706 SDG#: DE157-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.3	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	1.1		0.076	0.39		1
01363	p,p-DDT	50-29-3	1.3		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.18	J	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. The result for DDT for the reextract was .16 ug/kg.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.5		2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.9		2
10225	PCB-1221	11104-28-2	0.75	U	0.75	3.9		2
10225	PCB-1232	11141-16-5	0.75	U	0.75	3.9		2
10225	PCB-1242	53469-21-9	0.75	U	0.75	3.9		2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.9		2
10225	PCB-1254	11097-69-1	0.75	U	0.75	3.9		2
10225	PCB-1260	11096-82-5	0.89	U	0.89	3.9		2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.9		2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.9		2

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15706 SDG#: DE157-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	3.7		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	4.5		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	21		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,800		5.74	22.8		1
07914	Boron	7440-42-8	13.8		1.02	5.71		1
01650	Calcium	7440-70-2	6,760		7.00	22.8		1
01654	Iron	7439-89-6	35,500		26.9	114		5
01656	Lithium	7439-93-2	28.0		0.25	2.3		1
01657	Magnesium	7439-95-4	7,650		2.90	11.4		1
06958	Manganese	7439-96-5	571		0.0891	0.571		1
10145	Phosphorus	7723-14-0	284		0.640	11.4		1
01662	Potassium	7440-09-7	4,300		20.6	57.1		1
01667	Sodium	7440-23-5	363		42.6	114		1
07968	Strontium	7440-24-6	50.0		0.0708	0.571		1
06969	Tin	7440-31-5	2.81	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,340		0.434	1.14		1
10146	Zirconium	7440-67-7	4.53	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.332		0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0887	0.444		2
06126	Barium	7440-39-3	172		0.299	1.11		5
06127	Beryllium	7440-41-7	1.29		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.492		0.0444	0.111		2

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Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15706 SDG#: DE157-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	53.3	0.133	0.444		2
06132	Cobalt	7440-48-4	18.3	0.0222	0.111		2
06133	Copper	7440-50-8	28.4	0.0732	0.444		2
06135	Lead	7439-92-1	16.8	0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.651	0.0555	0.111		2
06139	Nickel	7440-02-0	38.2	0.111	0.444		2
06141	Selenium	7782-49-2	0.262 J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0785 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.503	0.0333	0.111		2
06148	Vanadium	7440-62-2	99.3	0.0244	0.111		2
06149	Zinc	7440-66-6	120	0.621	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92 U	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.92 U	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15706 SDG#: DE157-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/06/2011 17:14	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 07:29	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 02:38	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 01:24	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 21:10	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/06/2011 23:05	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 05:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 05:52	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/01/2011 22:43	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 15:53	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 16:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 05:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 19:01	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1

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Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293454
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15706 SDG#: DE157-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:01	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:18	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 04:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 07:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 07:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 09:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 16:42	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-041-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293455
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15707 SDG#: DE157-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	61.1		19.4	38.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(b)fluoranthene	205-99-2	20	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	24	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	21	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-041-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293455
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15707 SDG#: DE157-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	26	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.8		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.8		5
10138	Anthracene	120-12-7	2.0	U	2.0	9.8		5
10138	Benzo(a)anthracene	56-55-3	3.9	U	3.9	9.8		5
10138	Benzo(a)pyrene	50-32-8	4.6	J	3.9	9.8		5
10138	Benzo(g,h,i)perylene	191-24-2	3.9	U	3.9	9.8		5
10138	Benzo(k)fluoranthene	207-08-9	4.1	J	3.9	9.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.8		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	89	J	35	110		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.8		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.8		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.8		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8		5
10138	Di-n-octylphthalate	117-84-0	50	J	35	110		5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1

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Sample Description: SL-041-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293455
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15707 SDG#: DE157-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1

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Sample Description: SL-041-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293455
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15707 SDG#: DE157-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	2.7	J	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.16	U	0.16	0.39		1
01363	p,p-DDE	72-55-9	0.19	U	0.19	0.39		1
01363	p,p-DDT	50-29-3	1.9		0.077	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.45	U	0.45	0.45		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.39		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The surrogate recoveries associated with the reextract are outside the lower QC limit. The hold time had expired prior to the reextraction so all results are reported from the original extract. The DDT result for the reextract is .18 ug/kg.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.8	U	5.8	19		5
10225	Aroclor 5442	12642-23-8	5.8	U	5.8	19		5
10225	Aroclor 5460	11126-42-4	27		5.8	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.9		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.9		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.9		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.9		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.9		5
10225	PCB-1254	11097-69-1	34		1.9	9.9		5
10225	PCB-1260	11096-82-5	2.3	U	2.3	9.9		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.9		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.9		5
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.7	U	4.7	14		10
10199	EFH (C15-C20)	n.a.	6.2	J	4.7	14		10

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SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293455
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15707 SDG#: DE157-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	58		4.7	14		10
10199	EFH (C30 - C40)	n.a.	250		4.7	14		10
10199	EFH (C8-C11)	n.a.	4.7	U	4.7	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.5	U	3.5	8.1		2
10318	o-Terphenyl	84-15-1	3.5	U	3.5	8.1		2
10318	p-Terphenyl	92-94-4	3.5	U	3.5	8.1		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		5.83	23.2		1
07914	Boron	7440-42-8	14.5		1.03	5.80		1
01650	Calcium	7440-70-2	9,850		7.11	23.2		1
01654	Iron	7439-89-6	33,300		27.3	116		5
01656	Lithium	7439-93-2	26.4		0.26	2.3		1
01657	Magnesium	7439-95-4	7,440		2.94	11.6		1
06958	Manganese	7439-96-5	689		0.0904	0.580		1
10145	Phosphorus	7723-14-0	419		0.649	11.6		1
01662	Potassium	7440-09-7	4,100		20.9	58.0		1
01667	Sodium	7440-23-5	114	J	43.2	116		1
07968	Strontium	7440-24-6	42.4		0.0719	0.580		1
06969	Tin	7440-31-5	2.91	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,260		0.441	1.16		1
10146	Zirconium	7440-67-7	0.974	U	0.974	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.465		0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.7		0.0909	0.455		2
06126	Barium	7440-39-3	145		0.307	1.14		5
06127	Beryllium	7440-41-7	1.18		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.522		0.0455	0.114		2

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SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293455
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

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15707 SDG#: DE157-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	52.0		0.136	0.455		2
06132	Cobalt	7440-48-4	17.5		0.0227	0.114		2
06133	Copper	7440-50-8	29.9		0.0750	0.455		2
06135	Lead	7439-92-1	24.0		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.752		0.0568	0.114		2
06139	Nickel	7440-02-0	35.7		0.114	0.455		2
06141	Selenium	7782-49-2	0.231	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.114		0.0136	0.114		2
06145	Thallium	7440-28-0	0.456		0.0338	0.113		2
06148	Vanadium	7440-62-2	96.3		0.0250	0.114		2
06149	Zinc	7440-66-6	149		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0169	J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/06/2011 17:31	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 07:54	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 03:09	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 02:07	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 21:20	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/06/2011 23:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 05:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 06:11	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 01:12	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 16:09	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 16:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 10:00	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 19:04	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:20	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 07:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 07:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 10:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 16:54	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11145102201B	05/25/2011 19:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11145102201B	05/25/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293456
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15708 SDG#: DE157-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	411	J	308	616		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	310	U	310	920		1
04688	Benzidine	92-87-5	2,100	U	2,100	6,100		1
04688	Benzoic acid	65-85-0	310	U	310	920		1
04688	Benzyl alcohol	100-51-6	310	U	310	920		1
04688	4-Bromophenyl-phenylether	101-55-3	31	U	31	310		1
04688	Butylbenzylphthalate	85-68-7	31	U	31	310		1
04688	Di-n-butylphthalate	84-74-2	31	U	31	310		1
04688	Carbazole	86-74-8	31	U	31	310		1
04688	4-Chloro-3-methylphenol	59-50-7	61	U	61	310		1
04688	4-Chloroaniline	106-47-8	120	U	120	310		1
04688	bis(2-Chloroethoxy)methane	111-91-1	31	U	31	310		1
04688	bis(2-Chloroethyl)ether	111-44-4	31	U	31	310		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	31	U	31	310		1
04688	2-Chloronaphthalene	91-58-7	31	U	31	310		1
04688	2-Chlorophenol	95-57-8	31	U	31	310		1
04688	4-Chlorophenyl-phenylether	7005-72-3	61	U	61	310		1
04688	Chrysene	218-01-9	33	J	31	310		1
04688	Dibenzofuran	132-64-9	31	U	31	310		1
04688	1,2-Dichlorobenzene	95-50-1	31	U	31	310		1
04688	1,3-Dichlorobenzene	541-73-1	31	U	31	310		1
04688	1,4-Dichlorobenzene	106-46-7	31	U	31	310		1
04688	3,3'-Dichlorobenzidine	91-94-1	180	U	180	610		1
04688	2,4-Dichlorophenol	120-83-2	31	U	31	310		1
04688	Diethylphthalate	84-66-2	31	U	31	310		1
04688	2,4-Dimethylphenol	105-67-9	61	U	61	310		1
04688	3,5-Dimethylphenol	108-68-9	61	U	61	310		1
04688	Dimethylphthalate	131-11-3	31	U	31	310		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	310	U	310	920		1
04688	2,4-Dinitrophenol	51-28-5	610	U	610	1,800		1
04688	2,4-Dinitrotoluene	121-14-2	61	U	61	310		1
04688	2,6-Dinitrotoluene	606-20-2	31	U	31	310		1
04688	1,2-Diphenylhydrazine	122-66-7	31	U	31	310		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	31	610		1
04688	Hexachlorobenzene	118-74-1	31	U	31	310		1
04688	Hexachlorobutadiene	87-68-3	120	U	120	310		1
04688	Hexachlorocyclopentadiene	77-47-4	310	U	310	920		1
04688	Hexachloroethane	67-72-1	31	U	31	310		1
04688	Isophorone	78-59-1	31	U	31	310		1
04688	2-Methylphenol	95-48-7	61	U	61	310		1
04688	4-Methylphenol	106-44-5	61	U	61	310		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	31	U	31	310		1
04688	3-Nitroaniline	99-09-2	61	U	61	310		1
04688	4-Nitroaniline	100-01-6	120	U	120	310		1

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SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293456
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15708 SDG#: DE157-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	31	U	31	310		1
04688	2-Nitrophenol	88-75-5	31	U	31	310		1
04688	4-Nitrophenol	100-02-7	310	U	310	920		1
04688	N-Nitroso-di-n-propylamine	621-64-7	31	U	31	310		1
04688	N-Nitrosodiphenylamine	86-30-6	31	U	31	310		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	31	U	31	310		1
04688	Pentachlorophenol	87-86-5	310	U	310	920		1
04688	Phenol	108-95-2	31	U	31	310		1
04688	1,2,4-Trichlorobenzene	120-82-1	31	U	31	310		1
04688	2,4,5-Trichlorophenol	95-95-4	61	U	61	310		1
04688	2,4,6-Trichlorophenol	88-06-2	61	U	61	310		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	6.1	U	6.1	15		5
10138	Acenaphthylene	208-96-8	3.1	U	3.1	15		5
10138	Anthracene	120-12-7	3.1	U	3.1	15		5
10138	Benzo(a)anthracene	56-55-3	9.7	J	6.1	15		5
10138	Benzo(a)pyrene	50-32-8	14	J	6.1	15		5
10138	Benzo(b)fluoranthene	205-99-2	18		6.1	15		5
10138	Benzo(g,h,i)perylene	191-24-2	7.8	J	6.1	15		5
10138	Benzo(k)fluoranthene	207-08-9	24		6.1	15		5
10138	Dibenz(a,h)anthracene	53-70-3	6.1	U	6.1	15		5
10138	Fluoranthene	206-44-0	16		6.1	15		5
10138	Fluorene	86-73-7	6.1	U	6.1	15		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.1	U	6.1	15		5
10138	1-Methylnaphthalene	90-12-0	6.1	U	6.1	15		5
10138	2-Methylnaphthalene	91-57-6	6.1	U	6.1	15		5
10138	Naphthalene	91-20-3	6.1	U	6.1	15		5
10138	N-Nitrosodimethylamine	62-75-9	6.1	U	6.1	15		5
10138	Phenanthrene	85-01-8	6.1	U	6.1	15		5
10138	Pyrene	129-00-0	11	J	6.1	15		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	110	U	110	220	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	72	U	72	220	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	140	U	140	430	10000000	1

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SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293456
LLI Group # 1247822
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Project Name: SSFL Area IV Collocated Soil Sampling

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15708 SDG#: DE157-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	140	U	140	430	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	72	U	72	220	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	72	U	72	220	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	72	U	72	220	10000000	1
10132	HMX	2691-41-0	180	U	180	540	10000000	1
10132	Nitrobenzene	98-95-3	72	U	72	220	10000000	1
10132	Nitroglycerin	55-63-0	1,400	U	1,400	4,300	10000000	1
10132	2-Nitrotoluene	88-72-2	140	U	140	220	10000000	1
10132	3-Nitrotoluene	99-08-1	180	U	180	220	10000000	1
10132	4-Nitrotoluene	99-99-0	140	U	140	220	10000000	1
10132	PETN	78-11-5	1,400	U	1,400	4,300	10000000	1
10132	RDX	121-82-4	91	U	91	220	10000000	1
10132	Tetryl	479-45-8	110	U	110	220	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	72	U	72	220	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	72	U	72	220	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	2.2	U	2.2	6.6		1
10401	Dalapon	75-99-0	8.1	U	8.1	17		1
10401	2,4-DB	94-82-6	1.1	U	1.1	3.1		1
10401	Dicamba	1918-00-9	0.74	U	0.74	2.2		1
10401	Dinoseb	88-85-7	1.5	U	1.5	4.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.5	U	1.5	3.1		1
10401	MCPA	94-74-6	140	U	140	460		1
10401	MCPP (Mecoprop)	93-65-2	140	U	140	460		1
10401	2,4,5-T	93-76-5	0.15	U	0.15	0.31		1
10401	2,4,5-TP	93-72-1	0.14	U	0.14	0.31		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,100	U	1,100	2,800		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.12	U	0.12	0.31		1
01363	Alpha BHC	319-84-6	0.063	U	0.063	0.31		1

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SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293456
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15708 SDG#: DE157-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	1.1		0.11	0.31		1
01363	Gamma BHC - Lindane	58-89-9	0.063	U	0.063	0.31		1
01363	Chlordane	57-74-9	1.5	U	1.5	6.3		1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.63		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.63		1
01363	p,p-DDT	50-29-3	0.61	J	0.12	0.63		1
01363	Delta BHC	319-86-8	0.066	U	0.066	0.31		1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.63		1
01363	Endosulfan I	959-98-8	0.081	U	0.081	0.31		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.63		1
01363	Endosulfan Sulfate	1031-07-8	0.12	U	0.12	0.63		1
01363	Endrin	72-20-8	0.12	U	0.12	0.63		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.63		1
01363	Endrin Ketone	53494-70-5	0.12	U	0.12	0.63		1
01363	Heptachlor	76-44-8	0.11	U	0.11	0.31		1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.31		1
01363	Methoxychlor	72-43-5	0.63	U	0.63	3.1		1
01363	Mirex	2385-85-5	0.28	J	0.12	0.63		1
01363	Toxaphene	8001-35-2	4.1	U	4.1	12		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. The DDT result for the reextract is 1.04 ug/kg.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.8	U	1.8	6.1		1
10225	Aroclor 5442	12642-23-8	1.8	U	1.8	6.1		1
10225	Aroclor 5460	11126-42-4	1.8	U	1.8	6.1		1
10225	PCB-1016	12674-11-2	0.61	U	0.61	3.1		1
10225	PCB-1221	11104-28-2	0.61	U	0.61	3.1		1
10225	PCB-1232	11141-16-5	0.61	U	0.61	3.1		1
10225	PCB-1242	53469-21-9	0.61	U	0.61	3.1		1
10225	PCB-1248	12672-29-6	0.61	U	0.61	3.1		1
10225	PCB-1254	11097-69-1	4.3		0.61	3.1		1
10225	PCB-1260	11096-82-5	1.9	J	0.72	3.1		1
10225	PCB-1262	37324-23-5	0.61	U	0.61	3.1		1
10225	PCB-1268	11100-14-4	0.61	U	0.61	3.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	3.7	U	3.7	11		5
10199	EFH (C15-C20)	n.a.	6.9	J	3.7	11		5
10199	EFH (C21-C30)	n.a.	48		3.7	11		5

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15708 SDG#: DE157-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	170		3.7	11		5
10199	EFH (C8-C11)	n.a.	3.7	U	3.7	11		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	180	U	180	920		1
10501	Isopropanol	67-63-0	180	U	180	920		1
10501	Methanol	67-56-1	180	U	180	920		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	9.2	U	9.2	18		1
08283	Ethylene glycol	107-21-1	9.2	U	9.2	18		1
08283	Propylene glycol	57-55-6	9.2	U	9.2	18		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	5.5	U	5.5	13		2
10318	o-Terphenyl	84-15-1	5.5	U	5.5	13		2
10318	p-Terphenyl	92-94-4	5.5	U	5.5	13		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	47,700		9.21	36.6		1
07914	Boron	7440-42-8	20.6		1.63	9.15		1
01650	Calcium	7440-70-2	17,400		11.2	36.6		1
01654	Iron	7439-89-6	49,200		43.1	183		5
01656	Lithium	7439-93-2	40.7		0.40	3.7		1
01657	Magnesium	7439-95-4	10,500		4.65	18.3		1
06958	Manganese	7439-96-5	788		0.143	0.915		1
10145	Phosphorus	7723-14-0	568		1.02	18.3		1
01662	Potassium	7440-09-7	6,080		32.9	91.5		1
01667	Sodium	7440-23-5	181	J	68.3	183		1
07968	Strontium	7440-24-6	66.2		0.113	0.915		1
06969	Tin	7440-31-5	4.37	J	1.83	18.3		1
06970	Titanium	7440-32-6	2,030		0.695	1.83		1
10146	Zirconium	7440-67-7	6.06	J	1.54	9.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.535		0.109	0.362		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	16.6		0.145	0.725		2
06126	Barium	7440-39-3	263		0.489	1.81		5
06127	Beryllium	7440-41-7	1.75		0.0290	0.181		2
06128	Cadmium	7440-43-9	0.785		0.0725	0.181		2
06131	Chromium	7440-47-3	81.1		0.217	0.725		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293456
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15708 SDG#: DE157-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	28.9		0.0362	0.181		2
06133	Copper	7440-50-8	44.4		0.120	0.725		2
06135	Lead	7439-92-1	30.1		0.0188	0.362		2
06138	Molybdenum	7439-98-7	1.16		0.0906	0.181		2
06139	Nickel	7440-02-0	57.3		0.181	0.725		2
06141	Selenium	7782-49-2	0.305	J	0.0725	0.725		2
06142	Silver	7440-22-4	0.117	J	0.0217	0.181		2
06145	Thallium	7440-28-0	0.807		0.0538	0.179		2
06148	Vanadium	7440-62-2	152		0.0399	0.181		2
06149	Zinc	7440-66-6	203		1.01	5.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	U	0.0051	0.178		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		1.5	1.8		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	J	1.5	2.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	16.6	U	16.6	55.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.37	1.8		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.33	U	0.33	0.92		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	45.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293456
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15708 SDG#: DE157-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 12:41	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 08:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 03:41	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 02:49	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 21:39	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 00:00	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 05:56	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 06:29	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111430022A	05/24/2011 02:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 00:22	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 16:24	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 17:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 10:45	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 19:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1

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Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293456
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15708 SDG#: DE157-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:10	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 14:07	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 03:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205A	06/05/2011 03:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 10:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 17:16	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	57.4		19.0	38.1		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.9	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	J	6.9	21		1
10138	Chrysene	218-01-9	1.8	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.9	J	6.9	21		1
10138	Fluoranthene	206-44-0	2.3		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	9.6	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	1.6	J	0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	1.9		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	1.9		1
10401	MCPA	94-74-6	87	U	87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
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CDM Federal Programs Corp.
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15709 SDG#: DE157-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	4.6		0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.23	J	0.076	0.39		1
01363	p,p-DDT	50-29-3	1.2		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.27	U	0.27	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	2.5		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	9.2	U	9.2	28		20

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SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

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Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
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15709 SDG#: DE157-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	9.2	U	9.2	28		20
10199	EFH (C21-C30)	n.a.	67		9.2	28		20
10199	EFH (C30 - C40)	n.a.	370		9.2	28		20
10199	EFH (C8-C11)	n.a.	9.2	U	9.2	28		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.4	U	3.4	8.0		2
10318	o-Terphenyl	84-15-1	3.4	U	3.4	8.0		2
10318	p-Terphenyl	92-94-4	3.4	U	3.4	8.0		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,200		5.74	22.8		1
07914	Boron	7440-42-8	13.6		1.02	5.71		1
01650	Calcium	7440-70-2	11,000		7.00	22.8		1
01654	Iron	7439-89-6	31,900		26.9	114		5
01656	Lithium	7439-93-2	26.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,850		2.90	11.4		1
06958	Manganese	7439-96-5	358		0.0891	0.571		1
10145	Phosphorus	7723-14-0	380		0.640	11.4		1
01662	Potassium	7440-09-7	4,060		20.6	57.1		1
01667	Sodium	7440-23-5	137		42.6	114		1
07968	Strontium	7440-24-6	40.1		0.0708	0.571		1
06969	Tin	7440-31-5	2.93	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,220		0.434	1.14		1
10146	Zirconium	7440-67-7	4.23	J	0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.442		0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0914	0.457		2
06126	Barium	7440-39-3	126		0.123	0.457		2
06127	Beryllium	7440-41-7	1.22		0.0183	0.114		2

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Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
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14420 Albemarle Point Place
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15709 SDG#: DE157-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.465		0.0457	0.114		2
06131	Chromium	7440-47-3	44.0		0.137	0.457		2
06132	Cobalt	7440-48-4	16.4		0.0228	0.114		2
06133	Copper	7440-50-8	27.9		0.0754	0.457		2
06135	Lead	7439-92-1	17.2		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.845		0.0571	0.114		2
06139	Nickel	7440-02-0	34.4		0.114	0.457		2
06141	Selenium	7782-49-2	0.225	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0937	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.439		0.0333	0.111		2
06148	Vanadium	7440-62-2	81.2		0.0251	0.114		2
06149	Zinc	7440-66-6	131		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0092	J	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	U	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.95		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
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15709 SDG#: DE157-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/06/2011 17:48	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/28/2011 23:56	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/24/2011 21:53	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 03:32	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	3	111510009A	06/01/2011 21:48	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111430022A	05/25/2011 04:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 06:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 06:48	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111430022A	05/24/2011 02:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 03:43	Heather E Williams	20
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 16:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 17:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 14:29	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:13	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1

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SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293457
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15709 SDG#: DE157-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 05:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 05:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201B	06/02/2011 11:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 17:28	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201B	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	452		19.1	38.2		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,300		190	570		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	2,400	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	1,300		190	570		1
04688	Benzyl alcohol	100-51-6	1,700		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190		1
04688	4-Chloroaniline	106-47-8	850		77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,700		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,600		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,700		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,800		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	1,700		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700		77	190		1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	570		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,800	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,600	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	77	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,700	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.77	1.9		1
10138	Acenaphthylene	208-96-8	35	0.38	1.9		1
10138	Anthracene	120-12-7	40	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	43	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	45	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	48	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	24	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	45	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	41	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	43	6.9	21		1
10138	Chrysene	218-01-9	41	0.38	1.9		1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	29		0.77	1.9		1
10138	Diethylphthalate	84-66-2	37		6.9	21		1
10138	Dimethylphthalate	131-11-3	36		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	59		6.9	21		1
10138	Fluoranthene	206-44-0	50		0.77	1.9		1
10138	Fluorene	86-73-7	36		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	36		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	32		0.77	1.9		1
10138	Naphthalene	91-20-3	35		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	50		6.9	21		1
10138	Phenanthrene	85-01-8	37		0.77	1.9		1
10138	Pyrene	129-00-0	36		0.77	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		69	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,700		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,400		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		46	140		1
10132	HMX	2691-41-0	2,300		120	350		1
10132	Nitrobenzene	98-95-3	2,900		46	140		1
10132	Nitroglycerin	55-63-0	58,000		920	2,800		1
10132	2-Nitrotoluene	88-72-2	2,400		92	140		1
10132	3-Nitrotoluene	99-08-1	2,400		120	140		1
10132	4-Nitrotoluene	99-99-0	2,300		92	140		1
10132	PETN	78-11-5	70,000		920	2,800		1
10132	RDX	121-82-4	2,200		58	140		1
10132	Tetryl	479-45-8	1,500		71	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,400		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		46	140		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	9.3		1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	8.8		0.72	2.0		1
10401	Dicamba	1918-00-9	0.68	J	0.46	1.4		1
10401	Dinoseb	88-85-7	2.3	J	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.2		0.92	2.0		1
10401	MCPA	94-74-6	820		88	290		1
10401	MCPP (Mecoprop)	93-65-2	670		86	290		1
10401	2,4,5-T	93-76-5	0.53		0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.42		0.087	0.20		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,100		690	1,700		1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15709 SDG#: DE157-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.18	J	0.076	0.20		1
01363	Alpha BHC	319-84-6	0.23		0.039	0.20		1
01363	Beta BHC	319-85-7	0.18	J	0.069	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.039	0.20		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.42		0.076	0.39		1
01363	p,p-DDE	72-55-9	0.51		0.076	0.39		1
01363	p,p-DDT	50-29-3	2.4		0.076	0.39		1
01363	Delta BHC	319-86-8	0.21		0.042	0.20		1
01363	Dieldrin	60-57-1	0.39		0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.27	J	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.53		0.076	0.39		1
01363	Endrin	72-20-8	0.60		0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	1.9		0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.29		0.069	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.21		0.039	0.20		1
01363	Methoxychlor	72-43-5	2.5		0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	22		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	17		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

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Chantilly VA 20151

15709 SDG#: DE157-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	6.0	J	4.6	14		10
10199	EFH (C21-C30)	n.a.	46		4.6	14		10
10199	EFH (C30 - C40)	n.a.	210		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	730		120	580		1
10501	Methanol	67-56-1	1,800		120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	140		5.8	12		1
08283	Ethylene glycol	107-21-1	190		5.8	12		1
08283	Propylene glycol	57-55-6	180		5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	8.1		2
10318	o-Terphenyl	84-15-1	1.9	J	1.8	8.1		2
10318	p-Terphenyl	92-94-4	1.6	J	1.6	8.1		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,900		5.63	22.4		1
07914	Boron	7440-42-8	238		0.997	5.60		1
01650	Calcium	7440-70-2	11,800		6.86	22.4		1
01654	Iron	7439-89-6	30,500		26.4	112		5
01656	Lithium	7439-93-2	143		0.25	2.2		1
01657	Magnesium	7439-95-4	7,040		2.84	11.2		1
06958	Manganese	7439-96-5	407		0.0873	0.560		1
10145	Phosphorus	7723-14-0	560		0.627	11.2		1
01662	Potassium	7440-09-7	5,520		20.2	56.0		1
01667	Sodium	7440-23-5	1,280		41.8	112		1
07968	Strontium	7440-24-6	154		0.0694	0.560		1
06969	Tin	7440-31-5	399		1.12	11.2		1
06970	Titanium	7440-32-6	1,570		0.426	1.12		1
10146	Zirconium	7440-67-7	109		0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.32		0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.1		0.0923	0.461		2
06126	Barium	7440-39-3	143		0.311	1.15		5
06127	Beryllium	7440-41-7	2.29		0.0185	0.115		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	2.03	0.0461	0.115		2
06131	Chromium	7440-47-3	57.8	0.138	0.461		2
06132	Cobalt	7440-48-4	98.7	0.0231	0.115		2
06133	Copper	7440-50-8	42.7	0.0761	0.461		2
06135	Lead	7439-92-1	21.6	0.0120	0.231		2
06138	Molybdenum	7439-98-7	17.5	0.0577	0.115		2
06139	Nickel	7440-02-0	49.5	0.115	0.461		2
06141	Selenium	7782-49-2	3.13	0.0461	0.461		2
06142	Silver	7440-22-4	16.6	0.0138	0.115		2
06145	Thallium	7440-28-0	1.05	0.0330	0.110		2
06148	Vanadium	7440-62-2	97.6	0.0254	0.115		2
06149	Zinc	7440-66-6	148	0.646	3.46		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.198	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.6	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.2	0.92	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	661	10.4	34.6		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	37.4	1.2	5.8		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.8	0.21	0.57		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/06/2011 18:04	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 04:33	Ryan P Byrne	1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15709 SDG#: DE157-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/24/2011 22:25	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 04:14	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	3	111510009A	06/01/2011 21:58	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111430022A	05/25/2011 05:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 06:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 07:06	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111430022A	05/24/2011 02:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 01:38	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 16:55	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 17:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 15:59	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:24	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293458
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 13:00	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 06:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 06:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201B	06/02/2011 12:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	4	11145243201A	05/27/2011 11:20	Parker D Lindstrom	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201B	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	489		19.0	38.1		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,800		19	190		1
04688	Aniline	62-53-3	1,400		190	570		1
04688	Anthracene	120-12-7	1,800		19	190		1
04688	Benzidine	92-87-5	2,800	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190		1
04688	Benzoic acid	65-85-0	1,600		190	570		1
04688	Benzyl alcohol	100-51-6	1,800		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700		19	190		1
04688	Carbazole	86-74-8	1,700		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		38	190		1
04688	4-Chloroaniline	106-47-8	1,000		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,400		19	190		1
04688	2-Chlorophenol	95-57-8	1,800		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		38	190		1
04688	Chrysene	218-01-9	1,700		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,800		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800		19	190		1
04688	Diethylphthalate	84-66-2	1,700		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,700		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,600		190	570		1
04688	2,4-Dinitrophenol	51-28-5	3,000		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		19	380		1
04688	Fluoranthene	206-44-0	1,700		19	190		1
04688	Fluorene	86-73-7	1,700		19	190		1
04688	Hexachlorobenzene	118-74-1	1,700		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700		76	190		1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,100	190	570		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,900	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	76	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,800	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.77	1.9		1
10138	Acenaphthylene	208-96-8	38	0.38	1.9		1
10138	Anthracene	120-12-7	39	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	41	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	42	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	46	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	22	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	44	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	360	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	42	6.9	21		1
10138	Chrysene	218-01-9	39	0.38	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	27		0.77	1.9		1
10138	Diethylphthalate	84-66-2	36		6.9	21		1
10138	Dimethylphthalate	131-11-3	39		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49		6.9	21		1
10138	Fluoranthene	206-44-0	49		0.77	1.9		1
10138	Fluorene	86-73-7	38		0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	37		0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	33		0.77	1.9		1
10138	Naphthalene	91-20-3	33		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	55		6.9	21		1
10138	Phenanthrene	85-01-8	36		0.77	1.9		1
10138	Pyrene	129-00-0	34		0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		69	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,500		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,600		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,400		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		46	140		1
10132	HMX	2691-41-0	2,200		120	350		1
10132	Nitrobenzene	98-95-3	2,800		46	140		1
10132	Nitroglycerin	55-63-0	57,000		920	2,800		1
10132	2-Nitrotoluene	88-72-2	2,300		92	140		1
10132	3-Nitrotoluene	99-08-1	2,400		120	140		1
10132	4-Nitrotoluene	99-99-0	2,300		92	140		1
10132	PETN	78-11-5	68,000		920	2,800		1
10132	RDX	121-82-4	2,100		58	140		1
10132	Tetryl	479-45-8	1,500		71	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,400		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		46	140		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.6		1.4	4.1		1
10401	Dalapon	75-99-0	6.9	J	5.1	10		1
10401	2,4-DB	94-82-6	7.0		0.72	2.0		1
10401	Dicamba	1918-00-9	0.81	J	0.46	1.4		1
10401	Dinoseb	88-85-7	2.4	J	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.3		0.92	2.0		1
10401	MCPA	94-74-6	880		88	290		1
10401	MCPP (Mecoprop)	93-65-2	780		86	290		1
10401	2,4,5-T	93-76-5	0.48		0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.74		0.087	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,200		690	1,700		1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.092	J	0.076	0.20		1
01363	Alpha BHC	319-84-6	0.12	J	0.039	0.20		1
01363	Beta BHC	319-85-7	0.090	J	0.069	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.14	J	0.039	0.20		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.17	J	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.21	J	0.076	0.39		1
01363	p,p-DDT	50-29-3	1.1		0.076	0.39		1
01363	Delta BHC	319-86-8	0.13	J	0.042	0.20		1
01363	Dieldrin	60-57-1	0.15	J	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.14	J	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.31	J	0.076	0.39		1
01363	Endrin	72-20-8	0.25	J	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.98		0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.14	J	0.069	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.074	J	0.039	0.20		1
01363	Methoxychlor	72-43-5	0.95	J	0.39	1.9		1
01363	Mirex	2385-85-5	0.17	J	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The surrogate recoveries associated with the reextract are outside the lower QC limit. The hold time had expired prior to the reextraction so all results are reported from the original extract. The result for DDT was 0.18 ug/kg for the reextract.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	20		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	18		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	8.5	J	4.6	14		10
10199	EFH (C21-C30)	n.a.	69		4.6	14		10
10199	EFH (C30 - C40)	n.a.	250		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	1,600		120	580		1
10501	Methanol	67-56-1	1,700		120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	140		5.8	12		1
08283	Ethylene glycol	107-21-1	180		5.8	12		1
08283	Propylene glycol	57-55-6	170		5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	8.1		2
10318	o-Terphenyl	84-15-1	1.9	J	1.8	8.1		2
10318	p-Terphenyl	92-94-4	1.6	J	1.5	8.1		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,400		5.74	22.8		1
07914	Boron	7440-42-8	236		1.02	5.71		1
01650	Calcium	7440-70-2	14,100		7.00	22.8		1
01654	Iron	7439-89-6	33,800		26.9	114		5
01656	Lithium	7439-93-2	145		0.25	2.3		1
01657	Magnesium	7439-95-4	7,590		2.90	11.4		1
06958	Manganese	7439-96-5	437		0.0891	0.571		1
10145	Phosphorus	7723-14-0	540		0.640	11.4		1
01662	Potassium	7440-09-7	6,120		20.6	57.1		1
01667	Sodium	7440-23-5	1,270		42.6	114		1
07968	Strontium	7440-24-6	156		0.0708	0.571		1
06969	Tin	7440-31-5	389		1.14	11.4		1
06970	Titanium	7440-32-6	1,670		0.434	1.14		1
10146	Zirconium	7440-67-7	112		0.959	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.25		0.0678	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.0		0.0905	0.452		2
06126	Barium	7440-39-3	145		0.305	1.13		5

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	2.30	0.0181	0.113		2
06128	Cadmium	7440-43-9	1.96	0.0452	0.113		2
06131	Chromium	7440-47-3	57.8	0.136	0.452		2
06132	Cobalt	7440-48-4	96.0	0.0226	0.113		2
06133	Copper	7440-50-8	41.5	0.0746	0.452		2
06135	Lead	7439-92-1	21.3	0.0118	0.226		2
06138	Molybdenum	7439-98-7	16.8	0.0565	0.113		2
06139	Nickel	7440-02-0	48.6	0.113	0.452		2
06141	Selenium	7782-49-2	3.12	0.0452	0.452		2
06142	Silver	7440-22-4	16.1	0.0136	0.113		2
06145	Thallium	7440-28-0	1.12	0.0336	0.112		2
06148	Vanadium	7440-62-2	98.3	0.0249	0.113		2
06149	Zinc	7440-66-6	132	0.633	3.39		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.198	0.0032	0.111		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/06/2011 18:21	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 04:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/24/2011 22:57	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 04:57	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	3	111510009A	06/01/2011 22:07	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111430022A	05/25/2011 05:28	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 06:36	Jamie L Brillhart	1

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Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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15709 SDG#: DE157-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 07:25	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111430022A	05/24/2011 02:45	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 02:02	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 17:10	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 17:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 16:43	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:28	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 13:03	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 12:54	Choon Y Tian	2

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293459
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293460
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,100		5.69	22.6		1
07914	Boron	7440-42-8	12.2		1.01	5.65		1
01650	Calcium	7440-70-2	15,500		6.93	22.6		1
01654	Iron	7439-89-6	31,600		26.6	113		5
01656	Lithium	7439-93-2	25.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,640		2.87	11.3		1
06958	Manganese	7439-96-5	377		0.0882	0.565		1
10145	Phosphorus	7723-14-0	395		0.633	11.3		1
01662	Potassium	7440-09-7	4,280		20.4	56.5		1
01667	Sodium	7440-23-5	130		42.2	113		1
07968	Strontium	7440-24-6	40.0		0.0701	0.565		1
06969	Tin	7440-31-5	2.78	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,160		0.430	1.13		1
10146	Zirconium	7440-67-7	5.14	J	0.950	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.336		0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.74		0.0887	0.444		2
06126	Barium	7440-39-3	158		0.120	0.444		2
06127	Beryllium	7440-41-7	1.01		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.360		0.0444	0.111		2
06131	Chromium	7440-47-3	34.1		0.133	0.444		2
06132	Cobalt	7440-48-4	12.6		0.0222	0.111		2
06133	Copper	7440-50-8	19.6		0.0732	0.444		2
06135	Lead	7439-92-1	14.1		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.495		0.0555	0.111		2
06139	Nickel	7440-02-0	25.2		0.111	0.444		2
06141	Selenium	7782-49-2	0.151	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0546	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.488		0.0336	0.112		2
06148	Vanadium	7440-62-2	65.1		0.0244	0.111		2
06149	Zinc	7440-66-6	105		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	J	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293460
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.93	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	14.4	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 18:20	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/29/2011 23:16	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 12:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293460
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15709 SDG#: DE157-09DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 12:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11147495201A	05/28/2011 05:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11147495201A	05/28/2011 05:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201B	06/02/2011 12:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11145243201A	05/26/2011 18:08	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:43	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11147495201A	05/27/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201B	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293461
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15710 SDG#: DE157-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	221	J	191	382		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	23	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1

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Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293461
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15710 SDG#: DE157-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	20	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.6		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	3.9	U	3.9	9.6		5
10138	Benzo(a)pyrene	50-32-8	5.2	J	3.9	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	7.5	J	3.9	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	7.3	J	3.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.6		5
10138	Fluoranthene	206-44-0	11		3.9	9.6		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.6		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.6		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.6		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.6		5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1

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Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293461
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15710 SDG#: DE157-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.7	U	1.7	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
	Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293461
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15710 SDG#: DE157-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.0	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.39		1
01363	p,p-DDE	72-55-9	0.31	J	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.92		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.37	J	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.083	J	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. The DDT result for the reextract is 1.5 ug/kg.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	5.5		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	4.4		0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293461
LLI Group # 1247822
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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15710 SDG#: DE157-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	7.5	J	4.6	14		10
10199	EFH (C21-C30)	n.a.	67		4.6	14		10
10199	EFH (C30 - C40)	n.a.	220		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.4	U	3.4	8.0		2
10318	o-Terphenyl	84-15-1	3.4	U	3.4	8.0		2
10318	p-Terphenyl	92-94-4	3.4	U	3.4	8.0		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000		5.70	22.7		1
07914	Boron	7440-42-8	12.9		1.01	5.67		1
01650	Calcium	7440-70-2	11,600		6.95	22.7		1
01654	Iron	7439-89-6	31,700		26.7	113		5
01656	Lithium	7439-93-2	25.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,910		2.88	11.3		1
06958	Manganese	7439-96-5	401		0.0884	0.567		1
10145	Phosphorus	7723-14-0	361		0.635	11.3		1
01662	Potassium	7440-09-7	4,230		20.4	56.7		1
01667	Sodium	7440-23-5	115		42.3	113		1
07968	Strontium	7440-24-6	42.4		0.0703	0.567		1
06969	Tin	7440-31-5	2.61	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,300		0.431	1.13		1
10146	Zirconium	7440-67-7	3.85	J	0.952	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.472		0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.3		0.0907	0.453		2
06126	Barium	7440-39-3	168		0.306	1.13		5

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SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293461
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15710 SDG#: DE157-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	1.35		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.663		0.0453	0.113		2
06131	Chromium	7440-47-3	56.8		0.136	0.453		2
06132	Cobalt	7440-48-4	56.5		0.0227	0.113		2
06133	Copper	7440-50-8	31.8		0.0748	0.453		2
06135	Lead	7439-92-1	40.0		0.0118	0.227		2
06138	Molybdenum	7439-98-7	1.58		0.0567	0.113		2
06139	Nickel	7440-02-0	45.7		0.113	0.453		2
06141	Selenium	7782-49-2	0.186	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0509	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.476		0.0347	0.116		2
06148	Vanadium	7440-62-2	105		0.0249	0.113		2
06149	Zinc	7440-66-6	140		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.94		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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15710 SDG#: DE157-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 12:57	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 08:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 04:13	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 05:39	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 22:17	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 00:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/01/2011 06:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 08:57	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 02:27	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 17:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 18:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 18:13	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 19:12	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293461
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15710 SDG#: DE157-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:14	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:26	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 04:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205A	06/05/2011 04:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 10:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11145243201A	05/26/2011 18:19	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:45	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402A	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	190	U	190	379		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	19	U	19	48		5
10138	Acenaphthylene	208-96-8	9.6	U	9.6	48		5
10138	Anthracene	120-12-7	9.6	U	9.6	48		5
10138	Benzo(a)anthracene	56-55-3	320		19	48		5
10138	Benzo(a)pyrene	50-32-8	87		19	48		5
10138	Benzo(b)fluoranthene	205-99-2	330		19	48		5
10138	Benzo(g,h,i)perylene	191-24-2	67		19	48		5
10138	Benzo(k)fluoranthene	207-08-9	19	U	19	48		5
10138	Chrysene	218-01-9	9.6	U	9.6	48		5
10138	Dibenz(a,h)anthracene	53-70-3	38	J	19	48		5
10138	Fluoranthene	206-44-0	19	U	19	48		5
10138	Fluorene	86-73-7	19	U	19	48		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	J	19	48		5
10138	1-Methylnaphthalene	90-12-0	19	U	19	48		5
10138	2-Methylnaphthalene	91-57-6	19	U	19	48		5
10138	Naphthalene	91-20-3	19	U	19	48		5
10138	N-Nitrosodimethylamine	62-75-9	19	U	19	48		5
10138	Phenanthrene	85-01-8	19	U	19	48		5
10138	Pyrene	129-00-0	180		19	48		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	170	J	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.25		0.087	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.044	J	0.039	0.19		1
01363	Chlordane	57-74-9	2.3	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.67	U	0.67	0.67		1
01363	p,p-DDE	72-55-9	0.38	U	0.38	0.39		1
01363	p,p-DDT	50-29-3	1.8		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.32	U	0.32	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	2.0		0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.8	U	5.8	19		5
10225	Aroclor 5442	12642-23-8	5.8	U	5.8	19		5
10225	Aroclor 5460	11126-42-4	5.8	U	5.8	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.8		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.8		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.8		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.8		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.8		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.8		5
10225	PCB-1260	11096-82-5	14		2.2	9.8		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.8		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.8		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	12	U	12	35		25

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	14	J	12	35		25
10199	EFH (C21-C30)	n.a.	220		12	35		25
10199	EFH (C30 - C40)	n.a.	640		12	35		25
10199	EFH (C8-C11)	n.a.	12	U	12	35		25
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.4	U	3.4	8.0		2
10318	o-Terphenyl	84-15-1	3.4	U	3.4	8.0		2
10318	p-Terphenyl	92-94-4	3.4	U	3.4	8.0		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		5.69	22.6		1
07914	Boron	7440-42-8	12.4		1.01	5.65		1
01650	Calcium	7440-70-2	11,400		6.93	22.6		1
01654	Iron	7439-89-6	29,800		5.33	22.6		1
01656	Lithium	7439-93-2	22.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,490		2.87	11.3		1
06958	Manganese	7439-96-5	389		0.0882	0.565		1
10145	Phosphorus	7723-14-0	466		0.633	11.3		1
01662	Potassium	7440-09-7	4,460		20.4	56.5		1
01667	Sodium	7440-23-5	132		42.2	113		1
07968	Strontium	7440-24-6	36.5		0.0701	0.565		1
06969	Tin	7440-31-5	2.65	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,290		0.430	1.13		1
10146	Zirconium	7440-67-7	3.54	J	0.950	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.285		0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.49		0.0914	0.457		2
06126	Barium	7440-39-3	153		0.308	1.14		5
06127	Beryllium	7440-41-7	0.967		0.0183	0.114		2

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Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.463	0.0457	0.114		2
06131	Chromium	7440-47-3	40.7	0.137	0.457		2
06132	Cobalt	7440-48-4	14.6	0.0228	0.114		2
06133	Copper	7440-50-8	24.8	0.0754	0.457		2
06135	Lead	7439-92-1	22.9	0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.683	0.0571	0.114		2
06139	Nickel	7440-02-0	30.9	0.114	0.457		2
06141	Selenium	7782-49-2	0.148 J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0764 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.439	0.0339	0.113		2
06148	Vanadium	7440-62-2	82.5	0.0251	0.114		2
06149	Zinc	7440-66-6	107	0.640	3.43		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105 J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.96	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 13:14	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 09:10	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 08:43	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 06:21	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 22:26	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 00:54	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:26	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/09/2011 04:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 09:16	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 04:07	Heather E Williams	25
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 17:40	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 18:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 18:57	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:18	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/27/2011 08:28	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 04:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205A	06/05/2011 04:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201A	06/02/2011 11:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 18:36	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:46	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201A	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402B	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-046-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293462
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15711 SDG#: DE157-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-12 SDG#: DE157-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	276	J	182	363		10
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-12 SDG#: DE157-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1

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Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-12 SDG#: DE157-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.17	J	0.082	0.19		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite florisil cleanup, our usual reporting limits were not attained.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1

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SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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57-12 SDG#: DE157-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.8	J	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.66	U	0.66	0.66		1
01363	p,p-DDT	50-29-3	2.0		0.072	0.37		1
01363	Delta BHC	319-86-8	0.047	J	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	2.5		0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.16	J	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.22	U	0.22	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. The results were not similar between extracts. The reporting limit was raised on the reextract due to interference on the confirmation column; therefore DDT was noted to be non detected above 20 ug/kg.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.45	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

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Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-12 SDG#: DE157-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	33		25
10199	EFH (C15-C20)	n.a.	11	U	11	33		25
10199	EFH (C21-C30)	n.a.	120		11	33		25
10199	EFH (C30 - C40)	n.a.	490		11	33		25
10199	EFH (C8-C11)	n.a.	11	U	11	33		25
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.3	U	3.3	7.6		2
10318	o-Terphenyl	84-15-1	3.3	U	3.3	7.6		2
10318	p-Terphenyl	92-94-4	3.3	U	3.3	7.6		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		5.34	21.2		1
07914	Boron	7440-42-8	12.2		0.944	5.31		1
01650	Calcium	7440-70-2	8,010		6.50	21.2		1
01654	Iron	7439-89-6	27,100		5.00	21.2		1
01656	Lithium	7439-93-2	20.8		0.23	2.1		1
01657	Magnesium	7439-95-4	5,880		2.70	10.6		1
06958	Manganese	7439-96-5	361		0.0828	0.531		1
10145	Phosphorus	7723-14-0	467		0.594	10.6		1
01662	Potassium	7440-09-7	4,140		19.1	53.1		1
01667	Sodium	7440-23-5	118		39.6	106		1
07968	Strontium	7440-24-6	33.5		0.0658	0.531		1
06969	Tin	7440-31-5	2.53	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,130		0.403	1.06		1
10146	Zirconium	7440-67-7	3.24	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.266		0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.64		0.0849	0.424		2
06126	Barium	7440-39-3	143		0.115	0.424		2
06127	Beryllium	7440-41-7	0.594		0.0170	0.106		2

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Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-12 SDG#: DE157-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.398		0.0424	0.106		2
06131	Chromium	7440-47-3	28.1		0.127	0.424		2
06132	Cobalt	7440-48-4	11.2		0.0212	0.106		2
06133	Copper	7440-50-8	16.9		0.0700	0.424		2
06135	Lead	7439-92-1	16.5		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.415		0.0531	0.106		2
06139	Nickel	7440-02-0	20.2		0.106	0.424		2
06141	Selenium	7782-49-2	0.181	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0525	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.327		0.0315	0.105		2
06148	Vanadium	7440-62-2	55.3		0.0233	0.106		2
06149	Zinc	7440-66-6	92.4		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0125	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.3		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.74	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-12 SDG#: DE157-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 13:30	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 09:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 10:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 07:04	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 22:36	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/25/2011 19:16	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/09/2011 04:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 09:34	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 04:32	Heather E Williams	25
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 17:55	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 19:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 20:27	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1

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Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293463
LLI Group # 1247822
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CDM Federal Programs Corp.
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57-12 SDG#: DE157-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 14:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/26/2011 00:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 14:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 14:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 14:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 04:38	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205A	06/05/2011 04:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201B	06/02/2011 13:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 18:48	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:47	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201B	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402B	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293464
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15713 SDG#: DE157-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293464
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15713 SDG#: DE157-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.43	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	8.7	J	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	110	J	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.36		0.083	0.19		1
	Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.							

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LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15713 SDG#: DE157-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.8	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.51	U	0.51	0.51		1
01363	p,p-DDT	50-29-3	2.1		0.073	0.38		1
01363	Delta BHC	319-86-8	0.044	J	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.22	U	0.22	0.38		1
01363	Endrin Aldehyde	7421-93-4	2.3		0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.17	U	0.17	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.3		2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.3		2
10225	Aroclor 5460	11126-42-4	4.9	J	2.2	7.3		2
10225	PCB-1016	12674-11-2	0.73	U	0.73	3.8		2
10225	PCB-1221	11104-28-2	0.73	U	0.73	3.8		2
10225	PCB-1232	11141-16-5	0.73	U	0.73	3.8		2
10225	PCB-1242	53469-21-9	0.73	U	0.73	3.8		2
10225	PCB-1248	12672-29-6	0.73	U	0.73	3.8		2
10225	PCB-1254	11097-69-1	0.73	U	0.73	3.8		2
10225	PCB-1260	11096-82-5	8.4		0.87	3.8		2
10225	PCB-1262	37324-23-5	0.73	U	0.73	3.8		2
10225	PCB-1268	11100-14-4	0.73	U	0.73	3.8		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		5.55	22.1		1
07914	Boron	7440-42-8	10.8		0.982	5.52		1

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Analysis Report

Sample Description: SL-048-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293464
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15713 SDG#: DE157-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	7,230		6.77	22.1		1
01654	Iron	7439-89-6	28,900		5.20	22.1		1
01656	Lithium	7439-93-2	18.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,600		2.80	11.0		1
06958	Manganese	7439-96-5	446		0.0861	0.552		1
10145	Phosphorus	7723-14-0	543		0.618	11.0		1
01662	Potassium	7440-09-7	4,050		19.9	55.2		1
01667	Sodium	7440-23-5	213		41.2	110		1
07968	Strontium	7440-24-6	38.8		0.0684	0.552		1
06969	Tin	7440-31-5	2.65	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,210		0.419	1.10		1
10146	Zirconium	7440-67-7	3.27	J	0.927	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.277		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.58		0.0874	0.437		2
06126	Barium	7440-39-3	137		0.118	0.437		2
06127	Beryllium	7440-41-7	0.441		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.646		0.0437	0.109		2
06131	Chromium	7440-47-3	28.6		0.131	0.437		2
06132	Cobalt	7440-48-4	9.83		0.0219	0.109		2
06133	Copper	7440-50-8	24.5		0.0721	0.437		2
06135	Lead	7439-92-1	28.7		0.0114	0.219		2
06138	Molybdenum	7439-98-7	1.07		0.0546	0.109		2
06139	Nickel	7440-02-0	19.0		0.109	0.437		2
06141	Selenium	7782-49-2	0.159	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.226		0.0131	0.109		2
06145	Thallium	7440-28-0	0.390		0.0325	0.108		2
06148	Vanadium	7440-62-2	56.6		0.0240	0.109		2
06149	Zinc	7440-66-6	118		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0411	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Analysis Report

Sample Description: SL-048-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293464
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15713 SDG#: DE157-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011 10:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 10:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 02:17	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/09/2011 04:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 09:53	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293464
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15713 SDG#: DE157-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 13:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/26/2011 00:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 11:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201B	06/02/2011 13:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11145243201A	05/26/2011 18:54	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201B	05/30/2011 09:30	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402B	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293465
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-14 SDG#: DE157-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	37	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	33	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	55	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	55	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	21	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	110	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	680		18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	64	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	74	J	18	360		1
04688	Fluoranthene	206-44-0	68	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	32	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293465
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-14 SDG#: DE157-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	31	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	64	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	5.3		0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	400		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293465
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-14 SDG#: DE157-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	4.0		0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.37		1
01363	p,p-DDT	50-29-3	5.5	U	5.5	5.5		5
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	1.1		0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	1.3		0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.36	U	0.36	1.9		5
01363	Endrin	72-20-8	0.16	U	0.16	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	1.9		5
01363	Endrin Ketone	53494-70-5	0.36	U	0.36	1.9		5
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.068	U	0.068	0.18		1
01363	Methoxychlor	72-43-5	1.9	U	1.9	9.1		5
01363	Mirex	2385-85-5	0.36	U	0.36	1.9		5
01363	Toxaphene	8001-35-2	12	U	12	36		5

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Reextraction data: DDE was detected at .91 ug/kg. Dieldrin and endosulfan II were not detected above .066 ug/kg

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	5.3		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.5		0.36	1.9		1
10225	PCB-1260	11096-82-5	2.5		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		5.50	21.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293465
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-14 SDG#: DE157-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	10.5		0.974	5.47		1
01650	Calcium	7440-70-2	6,750		6.71	21.9		1
01654	Iron	7439-89-6	27,900		5.15	21.9		1
01656	Lithium	7439-93-2	19.7		0.24	2.2		1
01657	Magnesium	7439-95-4	5,880		2.78	10.9		1
06958	Manganese	7439-96-5	358		0.0853	0.547		1
10145	Phosphorus	7723-14-0	519		0.613	10.9		1
01662	Potassium	7440-09-7	4,300		19.7	54.7		1
01667	Sodium	7440-23-5	151		40.8	109		1
07968	Strontium	7440-24-6	32.4		0.0678	0.547		1
06969	Tin	7440-31-5	2.69	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230		0.416	1.09		1
10146	Zirconium	7440-67-7	2.92	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.335		0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.29		0.0867	0.433		2
06126	Barium	7440-39-3	154		0.117	0.433		2
06127	Beryllium	7440-41-7	0.499		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.718		0.0433	0.108		2
06131	Chromium	7440-47-3	29.0		0.130	0.433		2
06132	Cobalt	7440-48-4	12.0		0.0217	0.108		2
06133	Copper	7440-50-8	20.0		0.0715	0.433		2
06135	Lead	7439-92-1	48.2		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.844		0.0542	0.108		2
06139	Nickel	7440-02-0	22.7		0.108	0.433		2
06141	Selenium	7782-49-2	0.114	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0518	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.315		0.0319	0.106		2
06148	Vanadium	7440-62-2	62.9		0.0238	0.108		2
06149	Zinc	7440-66-6	142		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0092	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293465
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-14 SDG#: DE157-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/29/2011	10:26	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011	11:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011	08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011	08:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011	02:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/09/2011	05:05	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/09/2011	05:19	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011	10:11	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011	02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011	02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011	20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011	00:38	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293465
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

57-14 SDG#: DE157-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 14:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/26/2011 00:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 14:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 14:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 14:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 11:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201B	06/02/2011 13:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11145243201A	05/26/2011 19:22	Parker D Lindstrom	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201B	05/30/2011 09:30	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402B	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15715 SDG#: DE157-15FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	242	J	192	384		10
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

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Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15715 SDG#: DE157-15FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.7		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.7		5
10138	Benzo(a)anthracene	56-55-3	4.1	J	3.9	9.7		5
10138	Benzo(a)pyrene	50-32-8	4.8	J	3.9	9.7		5
10138	Benzo(b)fluoranthene	205-99-2	5.4	J	3.9	9.7		5
10138	Benzo(g,h,i)perylene	191-24-2	3.9	U	3.9	9.7		5
10138	Benzo(k)fluoranthene	207-08-9	9.7		3.9	9.7		5
10138	Chrysene	218-01-9	6.6	J	1.9	9.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.9	U	3.9	9.7		5
10138	Fluoranthene	206-44-0	8.2	J	3.9	9.7		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	U	3.9	9.7		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7		5
10138	Phenanthrene	85-01-8	3.9	U	3.9	9.7		5
10138	Pyrene	129-00-0	6.7	J	3.9	9.7		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1

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Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15715 SDG#: DE157-15FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.17	J	0.088	0.20		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19	U	0.19	0.48		1
01363	Alpha BHC	319-84-6	0.099	U	0.099	0.48		1

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Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
LLI Group # 1247822
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15715 SDG#: DE157-15FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.17	U	0.17	0.48		1
01363	Gamma BHC - Lindane	58-89-9	0.099	U	0.099	0.48		1
01363	Chlordane	57-74-9	2.5	J	2.3	9.9		1
01363	p,p-DDD	72-54-8	0.22	U	0.22	0.99		1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.99		1
01363	p,p-DDT	50-29-3	1.4		0.19	0.99		1
01363	Delta BHC	319-86-8	0.10	U	0.10	0.48		1
01363	Dieldrin	60-57-1	0.19	U	0.19	0.99		1
01363	Endosulfan I	959-98-8	0.13	U	0.13	0.48		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.99		1
01363	Endosulfan Sulfate	1031-07-8	0.19	U	0.19	0.99		1
01363	Endrin	72-20-8	0.19	U	0.19	0.99		1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.99		1
01363	Endrin Ketone	53494-70-5	0.19	U	0.19	0.99		1
01363	Heptachlor	76-44-8	0.17	U	0.17	0.48		1
01363	Heptachlor Epoxide	1024-57-3	0.099	U	0.099	0.48		1
01363	Methoxychlor	72-43-5	0.99	U	0.99	4.8		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.99		1
01363	Toxaphene	8001-35-2	6.4	U	6.4	19		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The LCS recovery for DDT is outside the QC limits. Results from the reextraction are outside the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. The DDT result for the reextract is .65 ug/kg.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	1.1	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.7	U	4.7	14		10
10199	EFH (C15-C20)	n.a.	6.5	J	4.7	14		10
10199	EFH (C21-C30)	n.a.	54		4.7	14		10

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Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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15715 SDG#: DE157-15FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	230		4.7	14		10
10199	EFH (C8-C11)	n.a.	4.7	U	4.7	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.5	U	3.5	8.1		2
10318	o-Terphenyl	84-15-1	3.5	U	3.5	8.1		2
10318	p-Terphenyl	92-94-4	3.5	U	3.5	8.1		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		5.70	22.7		1
07914	Boron	7440-42-8	12.6		1.01	5.66		1
01650	Calcium	7440-70-2	13,300		6.94	22.7		1
01654	Iron	7439-89-6	32,400		26.7	113		5
01656	Lithium	7439-93-2	25.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,770		2.88	11.3		1
06958	Manganese	7439-96-5	386		0.0884	0.566		1
10145	Phosphorus	7723-14-0	428		0.634	11.3		1
01662	Potassium	7440-09-7	4,500		20.4	56.6		1
01667	Sodium	7440-23-5	132		42.3	113		1
07968	Strontium	7440-24-6	40.3		0.0702	0.566		1
06969	Tin	7440-31-5	2.96	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,280		0.430	1.13		1
10146	Zirconium	7440-67-7	3.58	J	0.952	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.310		0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.29		0.0915	0.458		2
06126	Barium	7440-39-3	196		0.124	0.458		2
06127	Beryllium	7440-41-7	1.25		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.497		0.0458	0.114		2
06131	Chromium	7440-47-3	43.4		0.137	0.458		2

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Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15715 SDG#: DE157-15FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	14.4		0.0229	0.114		2
06133	Copper	7440-50-8	24.8		0.0755	0.458		2
06135	Lead	7439-92-1	16.5		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.829		0.0572	0.114		2
06139	Nickel	7440-02-0	30.4		0.114	0.458		2
06141	Selenium	7782-49-2	0.145	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.480		0.0137	0.114		2
06145	Thallium	7440-28-0	0.517		0.0333	0.111		2
06148	Vanadium	7440-62-2	82.3		0.0252	0.114		2
06149	Zinc	7440-66-6	124		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0197	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.93	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
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15715 SDG#: DE157-15FD*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLH026	06/03/2011 13:47	Gregory J Drahovsky	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLB026	05/30/2011 22:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11143SLE026	05/25/2011 11:45	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLH026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11143SLE026	05/24/2011 08:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLB026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111450005A	05/28/2011 09:11	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111510009A	06/01/2011 22:45	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 03:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111450023A	06/09/2011 05:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111450022A	06/01/2011 10:29	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111450023A	05/26/2011 02:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111450022A	05/26/2011 02:30	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111510018A	05/31/2011 20:45	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111510009A	05/31/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	2	111450005A	05/25/2011 18:30	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111440029A	06/02/2011 02:53	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111400025A	05/21/2011 18:10	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 19:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111440030A	05/27/2011 21:11	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111440029A	05/25/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111440030A	05/25/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111400025A	05/20/2011 17:35	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111435708003	05/31/2011 19:15	John P Hook	5
01656	Lithium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293466
LLI Group # 1247822
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/21/2011 15:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15715 SDG#: DE157-15FD*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111435708003	05/30/2011 00:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111431026002D	05/24/2011 13:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111431026002C	05/24/2011 13:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111431026002B	05/24/2011 13:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	111531026003A	06/03/2011 10:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111431026002A	05/24/2011 13:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111435711003	05/24/2011 05:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111435708003	05/23/2011 20:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111431026002	05/23/2011 20:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111531026003	06/02/2011 22:20	Mirit S Shenouda	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111435711003	05/23/2011 23:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 04:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205A	06/05/2011 04:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373201B	06/02/2011 14:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11145243201A	05/26/2011 19:28	Parker D Lindstrom	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102201A	05/27/2011 19:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373201B	05/30/2011 09:30	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102201A	05/27/2011 10:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11144039402B	05/24/2011 22:00	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11145243201A	05/25/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11143SLB026	Sample number(s): 6293449-6293459,6293461-6293466									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	97		75-122		
Aniline	170 U		170.	500	ug/kg	81		34-94		
Anthracene	17	U	17.	170	ug/kg	95		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	63		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	90		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	95		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	84		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	88		67-125		
Benzoic acid	170 U		170.	500	ug/kg	83		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	93		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	89		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	92		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	85		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	103		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	57		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	31*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Fluorene	17	U	17.	170	ug/kg	92		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	93		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	85		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	85		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	100		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	97		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	97		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	95		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	95		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	102		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	66		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
Pyrene	17	U	17.	170	ug/kg	105		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11143SLE026	Sample number(s): 6293449-6293459,6293461-6293466									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	104		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	106		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	123		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	123		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	97		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	112		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	122		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		56-121		
Batch number: 11143SLH026	Sample number(s): 6293449-6293459,6293461-6293463,6293466									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 111450005A	Sample number(s): 6293449-6293459,6293461-6293463,6293466									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	115		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	101	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	98	100	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100 U		100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	132*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	93		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	104		80-120		
PETN	800 U		800.	2,400	ug/kg	121*		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	71		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 111510009A	Sample number(s): 6293449-6293459,6293461-6293463,6293466									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	84		80-126		
Batch number: 111430022A	Sample number(s): 6293449-6293450,6293452,6293457-6293459									
2,4-D	1.2	U	1.2	3.6	ug/kg	94		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	47		11-116		
2,4-DB	0.88	J	0.62	1.7	ug/kg	117		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	92		62-170		
MCPA	76	U	76.	250	ug/kg	78		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	69		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	100		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		68-114		
Batch number: 111440021A	Sample number(s): 6293463									
2,4-D	1.2	U	1.2	3.6	ug/kg	94		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	52		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	110		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	83		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	104		62-170		
MCPA	76	U	76.	250	ug/kg	76		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	75		54-137		

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,5-T	0.082	U	0.082	0.17	ug/kg	94		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 111510018A	Sample number(s): 6293451,6293453-6293456,6293461-6293462,6293464-6293466									
2,4-D	1.2	U	1.2	3.6	ug/kg	89		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	49		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	92		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		62-170		
MCPA	76	U	76.	250	ug/kg	93		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	79		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 111430024A	Sample number(s): 6293451,6293462									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111450022A	Sample number(s): 6293449-6293459,6293461-6293466									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	90	87	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	97		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111450023A	Sample number(s): 6293449-6293459,6293461-6293466									
Aldrin	0.066	U	0.066	0.17	ug/kg	85		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	112		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	115		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	112		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	134*		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	111		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	115		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	113		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	95		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	105		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	100		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	137*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111440029A	Sample number(s): 6293449-6293459,6293461-6293463,6293466									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	105		76-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	108		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	103		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	81		54-107		
Batch number: 111400025A	Sample number(s): 6293449-6293459,6293461-6293463,6293466									
Ethanol	100	U	100.	500	ug/kg	83		71-129		
Isopropanol	100	U	100.	500	ug/kg	91		75-125		
Methanol	100	U	100.	500	ug/kg	78		68-129		
Batch number: 111430018A	Sample number(s): 6293449-6293453									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Batch number: 111440003A	Sample number(s): 6293454-6293459,6293461-6293463,6293466									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	86		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Batch number: 111440030A	Sample number(s): 6293449-6293459,6293461-6293463,6293466									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
Batch number: 111431026002A	Sample number(s): 6293449-6293466									
Antimony	0.0600	U	0.0600	0.200	mg/kg	102		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	103		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.110	J	0.0660	0.400	mg/kg	101		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	101		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		81-111		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	92		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	103		81-112		
Batch number: 111431026002B	Sample number(s): 6293449-6293466									
Selenium	0.0400	U	0.0400	0.400	mg/kg	103		83-111		
Batch number: 111431026002C	Sample number(s): 6293449-6293466									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 111431026002D	Sample number(s): 6293449-6293466									
Barium	0.108	U	0.108	0.400	mg/kg	108		81-111		
Batch number: 111435708003	Sample number(s): 6293449-6293466									
Aluminum	5.03	U	5.03	20.0	mg/kg	92		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	93		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	97		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	97		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	96		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		89-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.45	J	0.560	10.0	mg/kg	109		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	91		78-110		
Sodium	37.3	U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.41	J	1.00	10.0	mg/kg	98		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	89		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111435711003	Sample number(s): 6293449-6293466									
Mercury	0.0028	U	0.0028	0.0960	mg/kg	105		88-123		
Batch number: 111531026003A	Sample number(s): 6293449-6293466									
Thallium	0.0286	U	0.0286	0.0952	mg/kg	102		83-110		
Batch number: 11145102201B	Sample number(s): 6293449-6293455									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11145243201A	Sample number(s): 6293449-6293458,6293460-6293466									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	91		80-120		
Batch number: 11147102201A	Sample number(s): 6293456-6293458,6293460-6293463,6293466									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	102		80-120		
Batch number: 11147495201A	Sample number(s): 6293449-6293455,6293457-6293458,6293460									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11150373201A	Sample number(s): 6293449-6293456,6293461-6293462									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11150373201B	Sample number(s): 6293457-6293458,6293460,6293463-6293466									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11153373202A	Sample number(s): 6293464-6293465									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11154373205A	Sample number(s): 6293456,6293461-6293463,6293466									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	92		90-110		
Batch number: 11144039401B	Sample number(s): 6293449									
18a pH by 9045C						100		95-105		
Batch number: 11144039402A	Sample number(s): 6293450-6293457,6293460-6293461									
18a pH by 9045C						100		95-105		
Batch number: 11144039402B	Sample number(s): 6293462-6293466									
18a pH by 9045C						100		95-105		
Batch number: 11147162402A	Sample number(s): 6293464-6293465									
Moisture Content by 160.3						100		80-120		
Batch number: 11153162401A	Sample number(s): 6293449-6293463,6293466									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11143SLB026	Sample number(s): 6293449-6293459,6293461-6293466 UNSPK: 6293457								
Acenaphthene	88	93	75-115	5	30				
Acenaphthylene	92	95	81-110	3	30				
Aniline	70	75	35-95	6	30				
Anthracene	94	93	75-115	1	30				
Benzidine	25*	29*	35-141	17	30				
Benzo(a)anthracene	94	94	65-122	0	30				
Benzo(a)pyrene	84	88	57-126	4	30				
Benzo(b)fluoranthene	84	83	59-125	2	30				
Benzo(g,h,i)perylene	85	87	59-127	2	30				
Benzo(k)fluoranthene	83	89	56-132	7	30				
Benzoic acid	69	83	10-173	18	30				
Benzyl alcohol	89	92	67-115	4	30				
4-Bromophenyl-phenylether	96	93	67-129	3	30				
Butylbenzylphthalate	93	96	73-134	3	30				
Di-n-butylphthalate	90	91	67-123	1	30				
Carbazole	91	91	64-120	1	30				
4-Chloro-3-methylphenol	88	90	76-110	3	30				
4-Chloroaniline	44	52	23-95	17	30				
bis(2-Chloroethoxy)methane	89	89	75-104	0	30				
bis(2-Chloroethyl)ether	88	92	60-116	4	30				
bis(2-Chloroisopropyl)ether	84	83	55-142	2	30				
2-Chloronaphthalene	87	74	50-141	17	30				
2-Chlorophenol	93	96	73-121	4	30				
4-Chlorophenyl-phenylether	89	91	80-109	2	30				
Chrysene	91	91	62-128	1	30				
Dibenz(a,h)anthracene	84	86	65-125	2	30				
Dibenzofuran	90	92	71-112	2	30				
1,2-Dichlorobenzene	83	85	66-108	2	30				
1,3-Dichlorobenzene	82	83	63-109	1	30				
1,4-Dichlorobenzene	83	87	70-100	4	30				
3,3'-Dichlorobenzidine	74	74	16-119	1	30				
2,4-Dichlorophenol	94	96	78-117	2	30				
Diethylphthalate	86	88	66-118	2	30				
2,4-Dimethylphenol	88	92	78-110	5	30				
3,5-Dimethylphenol	98	98	70-130	0	30				
Dimethylphthalate	88	90	64-118	2	30				
4,6-Dinitro-2-methylphenol	82	84	24-116	2	30				
2,4-Dinitrophenol	74	78	20-143	5	30				
2,4-Dinitrotoluene	88	92	73-113	4	30				
2,6-Dinitrotoluene	92	95	69-123	3	30				
1,2-Diphenylhydrazine	100	98	71-129	2	30				
bis(2-Ethylhexyl)phthalate	88	93	63-122	5	30				
Fluoranthene	93	91	73-112	2	30				
Fluorene	88	90	77-111	2	30				
Hexachlorobenzene	94	91	77-114	3	30				
Hexachlorobutadiene	87	87	62-120	0	30				
Hexachlorocyclopentadiene	70	55	10-153	24	30				
Hexachloroethane	80	82	57-109	2	30				
Indeno(1,2,3-cd)pyrene	83	88	61-126	6	30				

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Quality Control Summary

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Reported: 06/21/11 at 03:35 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	86	89	73-102	3	30				
1-Methylnaphthalene	86	88	73-112	2	30				
2-Methylnaphthalene	81	85	76-114	4	30				
2-Methylphenol	89	91	75-111	2	30				
4-Methylphenol	96	99	71-111	2	30				
Naphthalene	84	88	72-116	4	30				
2-Nitroaniline	93	98	67-125	4	30				
3-Nitroaniline	85	90	59-122	5	30				
4-Nitroaniline	75	74	52-112	1	30				
Nitrobenzene	91	94	72-106	3	30				
2-Nitrophenol	88	94	74-115	6	30				
4-Nitrophenol	86	85	54-113	2	30				
N-Nitroso-di-n-propylamine	81	85	60-116	4	30				
N-Nitrosodimethylamine	88	93	47-116	4	30				
N-Nitrosodiphenylamine	97	96	86-145	2	30				
Di-n-octylphthalate	85	90	56-126	5	30				
Pentachlorophenol	69	67	28-127	2	30				
Phenanthrene	93	92	65-125	2	30				
Phenol	93	96	58-126	3	30				
Pyrene	97	98	74-126	1	30				
1,2,4-Trichlorobenzene	90	92	72-115	3	30				
2,4,5-Trichlorophenol	91	95	78-109	4	30				
2,4,6-Trichlorophenol	94	95	77-115	0	30				
Batch number: 11143SLE026	Sample number(s): 6293449-6293459,6293461-6293466 UNSPK: 6293457								
Acenaphthene	92	92	63-105	0	30				
Acenaphthylene	91	99	67-114	8	30				
Anthracene	103	102	60-122	1	30				
Benzo(a)anthracene	108	103	59-128	5	30				
Benzo(a)pyrene	111	105	45-138	5	30				
Benzo(b)fluoranthene	117	112	43-155	4	30				
Benzo(g,h,i)perylene	60	55	33-141	9	30				
Benzo(k)fluoranthene	115	112	42-144	2	30				
Butylbenzylphthalate	106	947*	57-173	160*	30				
Di-n-butylphthalate	93	91	65-148	2	30				
Chrysene	101	95	48-134	5	30				
Dibenz(a,h)anthracene	76	71	22-133	6	30				
Diethylphthalate	95	94	70-136	2	30				
Dimethylphthalate	93	101	74-118	9	30				
Bis(2-Ethylhexyl)phthalate	127	101	39-167	19	30				
Fluoranthene	125	122	26-166	2	30				
Fluorene	95	99	66-122	4	30				
Indeno(1,2,3-cd)pyrene	74	68	21-143	8	30				
1-Methylnaphthalene	93	95	72-123	3	30				
2-Methylnaphthalene	84	86	64-103	2	30				
Naphthalene	90	86	61-102	4	30				
N-Nitrosodimethylamine	94	88	48-113	6	30				
Di-n-octylphthalate	104	119	40-192	11	30				
Phenanthrene	96	94	12-165	2	30				
Pyrene	89	85	15-153	5	30				
Batch number: 11143SLH026	Sample number(s): 6293449-6293459,6293461-6293463,6293466 UNSPK: 6293457								
N-Nitrosodimethylamine	41*	45*	70-130	8	30				

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Quality Control Summary

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Reported: 06/21/11 at 03:35 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111450005A	Sample number(s): 6293449-6293459,6293461-6293463,6293466 UNSPK: 6293457								
4-Amino-2,6-Dinitrotoluene	110	107	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	112	108	80-137	3	50				
1,3-Dinitrobenzene	116	112	38-166	3	50				
2,4-Dinitrotoluene	106	104	80-131	2	50				
2,6-Dinitrotoluene	105	104	80-127	2	50				
HMX	98	96	63-128	2	50				
Nitrobenzene	127*	123	80-125	3	50				
Nitroglycerin	106	103	80-120	2	50				
2-Nitrotoluene	103	102	80-122	2	50				
3-Nitrotoluene	106	104	72-119	2	50				
4-Nitrotoluene	102	100	80-125	2	50				
PETN	126*	123*	80-121	2	50				
RDX	95	92	75-129	2	50				
Tetryl	64	65	55-174	1	50				
1,3,5-Trinitrobenzene	104	103	82-126	1	50				
2,4,6-Trinitrotoluene	104	102	82-130	2	50				
Batch number: 111510009A	Sample number(s): 6293449-6293459,6293461-6293463,6293466 UNSPK: 6293457								
25a Formaldehyde 8315A	89	91	80-120	2	50				
Batch number: 111430022A	Sample number(s): 6293449-6293450,6293452,6293457-6293459 UNSPK: 6293457								
2,4-D	97	100	17-180	3	35				
Dalapon	0*	28	10-125	200*	50				
2,4-DB	92	72	10-201	24	50				
Dicamba	71	84	10-190	17	50				
Dinoseb	14	14	10-46	2	35				
2,4-DP (Dichlorprop)	85	86	33-178	2	50				
MCPA	85	91	10-213	7	50				
MCPP (Mecoprop)	69	81	10-184	15	50				
2,4,5-T	55	51	10-156	9	35				
2,4,5-TP	43	77	24-141	56*	35				
Batch number: 111440021A	Sample number(s): 6293463 UNSPK: 6293463								
2,4-D	120	109	17-180	9	35				
Dalapon	45	46	10-125	1	50				
2,4-DB	79	73	10-201	9	50				
Dicamba	89	83	10-190	7	50				
Dinoseb	21	18	10-46	16	35				
2,4-DP (Dichlorprop)	99	94	33-178	5	50				
MCPA	95	93	10-213	2	50				
MCPP (Mecoprop)	70	58	10-184	19	50				
2,4,5-T	95	83	10-156	14	35				
2,4,5-TP	19*	18*	24-141	3	35				
Batch number: 111510018A	Sample number(s): 6293451,6293453-6293456,6293461-6293462,6293464-6293466 UNSPK: P298916								
2,4-D	92	79	17-180	15	35				
Dalapon	41	25	10-125	50	50				
2,4-DB	60	58	10-201	4	50				
Dicamba	88	73	10-190	18	50				
Dinoseb	24	16	10-46	43*	35				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-DP (Dichlorprop)	105	97	33-178	7	50				
MCPA	85	76	10-213	9	50				
MCPP (Mecoprop)	66	93	10-184	34	50				
2,4,5-T	28	29	10-156	4	35				
2,4,5-TP	73	67	24-141	9	35				
Batch number: 111430024A	Sample number(s): 6293451,6293462 UNSPK: P291999								
6a Perchlorate EPA 6850	109	111	80-120	2	20				
Batch number: 111450022A	Sample number(s): 6293449-6293459,6293461-6293466 UNSPK: 6293457								
PCB-1016	113	103	29-146	9	50				
PCB-1260	76	83	39-149	8	50				
Batch number: 111450023A	Sample number(s): 6293449-6293459,6293461-6293466 UNSPK: 6293457								
Aldrin	48	24	16-126	67*	50				
Alpha BHC	61	30	10-129	67*	50				
Beta BHC	50	24	14-147	69*	50				
Gamma BHC - Lindane	61	36	10-140	50	50				
p,p-DDD	42	18	16-163	82*	50				
p,p-DDE	37	-2*	18-161	84*	50				
p,p-DDT	131	-12*	10-176	72*	50				
Delta BHC	56	34	23-140	48	50				
Dieldrin	37	14*	19-154	89*	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	35	18*	28-154	63*	50				
Endosulfan Sulfate	71	42	21-160	52*	50				
Endrin	63	27	11-149	81*	50				
Endrin Aldehyde	245*	131	10-148	62*	35				
Endrin Ketone	0*	0*	22-165	0	50				
Heptachlor	54	26	13-126	70*	50				
Heptachlor Epoxide	55	20	13-157	95*	50				
Methoxychlor	56	21*	32-147	91*	50				
Batch number: 111440029A	Sample number(s): 6293449-6293459,6293461-6293463,6293466 UNSPK: 6293457								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	414*	589*	49-123	35*	20				
EFH (C21-C30)	-858 (2)	116 (2)	49-123	41*	20				
EFH (C30 - C40)	-5778 (2)	-4175 (2)	49-123	21*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111400025A	Sample number(s): 6293449-6293459,6293461-6293463,6293466 UNSPK: 6293457								
Ethanol	0*	0*	48-130	0	20				
Isopropanol	25	56	12-149	75*	20				
Methanol	62	58	43-138	6	20				
Batch number: 111430018A	Sample number(s): 6293449-6293453 UNSPK: P291999								
Diethylene glycol	36*	56*	59-109	45*	20				
Ethylene glycol	44*	71	63-107	47*	20				
Propylene glycol	48*	77	63-107	45*	20				
Batch number: 111440003A	Sample number(s): 6293454-6293459,6293461-6293463,6293466 UNSPK: 6293457								

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Quality Control Summary

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Reported: 06/21/11 at 03:35 PM

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylene glycol	59	57*	59-109	3	20				
Ethylene glycol	72	70	63-107	4	20				
Propylene glycol	77	74	63-107	4	20				
Batch number: 111440030A	Sample number(s): 6293449-6293459,6293461-6293463,6293466 UNSPK: 6293457								
m-Terphenyl	70*	69*	75-125	2	20				
o-Terphenyl	101	98	75-125	4	20				
p-Terphenyl	84	83	75-125	2	20				
Batch number: 111431026002A	Sample number(s): 6293449-6293466 UNSPK: 6293457 BKG: 6293457								
Antimony	64*	60*	75-125	6	20	0.383	0.292	27* (1)	20
Arsenic	68 (2)	108 (2)	75-125	7	20	9.15	6.71	31*	20
Beryllium	115	119	75-125	1	20	1.06	0.877	19	20
Cadmium	136*	132*	75-125	3	20	0.403	0.312	26* (1)	20
Chromium	120	122	75-125	0	20	38.2	29.6	25*	20
Cobalt	143*	141*	75-125	3	20	14.2	10.9	26*	20
Copper	129*	121	75-125	3	20	24.2	17.0	35*	20
Lead	127 (2)	119 (2)	75-125	2	20	14.9	12.3	20	20
Nickel	131*	125	75-125	2	20	29.8	21.9	31*	20
Silver	143*	141*	75-125	3	20	0.0812 J	0.0474 J	53* (1)	20
Vanadium	142 (2)	151 (2)	75-125	1	20	70.4	56.4	22*	20
Zinc	149 (2)	9 (2)	75-125	11	20	114	90.9	22*	20
Batch number: 111431026002B	Sample number(s): 6293449-6293466 UNSPK: 6293457 BKG: 6293457								
Selenium	126*	128*	75-125	0	20	0.195 J	0.131 J	39* (1)	20
Batch number: 111431026002C	Sample number(s): 6293449-6293466 UNSPK: 6293457 BKG: 6293457								
Molybdenum	144*	141*	75-125	4	20	0.732	0.429	52* (1)	20
Batch number: 111431026002D	Sample number(s): 6293449-6293466 UNSPK: 6293457 BKG: 6293457								
Barium	147 (2)	170 (2)	75-125	2	20	109	137	23*	20
Batch number: 111435708003	Sample number(s): 6293449-6293466 UNSPK: 6293457 BKG: 6293457								
Aluminum	1640 (2)	3590 (2)	75-125	13	20	26,200	24,300	7	20
Boron	100	97	84-115	1	20	11.8	10.6	11 (1)	20
Calcium	196 (2)	681 (2)	75-125	17	20	9,510	13,400	34*	20
Iron	-1268 (2)	1640 (2)	75-125	10	20	27,700	27,400	1	20
Lithium	104	104	82-114	1	20	22.6	21.6	4	20
Magnesium	84 (2)	321 (2)	75-125	7	20	5,940	5,760	3	20
Manganese	87 (2)	137 (2)	75-125	7	20	311	327	5	20
Phosphorus	161*	140*	75-125	4	20	329	343	4	20
Potassium	130*	180*	75-125	10	20	3,520	3,710	5	20
Sodium	102	99	75-125	1	20	118	113	5 (1)	20
Strontium	101	101	75-115	1	20	34.8	34.7	0	20
Tin	88	85	80-110	3	20	2.54 J	2.41 J	5 (1)	20
Titanium	309 (2)	395 (2)	75-125	7	20	1,060	1,010	5	20
Zirconium	94	94	75-125	3	20	3.67 J	4.46 J	20 (1)	20
Batch number: 111435711003	Sample number(s): 6293449-6293466 UNSPK: 6293457 BKG: 6293457								
Mercury	100	102	65-135	0	20	0.0080 J	0.0028 U	200* (1)	20

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Quality Control Summary

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Reported: 06/21/11 at 03:35 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 111531026003A	Sample number(s): 6293449-6293466 UNSPK: 6293457 BKG: 6293457										
Thallium	139*	152*	75-125	6	20	0.380		0.423		11 (1)	20
Batch number: 11145102201B	Sample number(s): 6293449-6293455 UNSPK: P293427 BKG: P293427										
17a Cyanide by 9012B	104		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11145243201A	Sample number(s): 6293449-6293458,6293460-6293466 UNSPK: 6293457 BKG: 6293457										
3a Cr VI by EPA 7199	81		75-125			0.66	J	0.20	U	200* (1)	20
Batch number: 11147102201A	Sample number(s): 6293456-6293458,6293460-6293463,6293466 UNSPK: 6293457 BKG: 6293457										
17a Cyanide by 9012B	101		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11147495201A	Sample number(s): 6293449-6293455,6293457-6293458,6293460 UNSPK: 6293457 BKG: 6293457										
11a Anions by 300.0 - Fluoride	74*		80-120			0.80	U	1.0	J	200* (1)	20
11a Anions by 300.0 - Nitrate	84		80-120			2.1		2.1		3 (1)	20
Batch number: 11150373201A	Sample number(s): 6293449-6293456,6293461-6293462 UNSPK: 6293449 BKG: 6293449										
7a Perchlorate EPA 314.0	107		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11150373201B	Sample number(s): 6293457-6293458,6293460,6293463-6293466 UNSPK: 6293457 BKG: 6293457										
7a Perchlorate EPA 314.0	116		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11153373202A	Sample number(s): 6293464-6293465 UNSPK: P298916 BKG: P298916										
11a Anions by 300.0 - Fluoride	75*		80-120			0.80	U	0.98	J	200* (1)	20
Batch number: 11154373205A	Sample number(s): 6293456,6293461-6293463,6293466 UNSPK: 6293456 BKG: 6293456										
11a Anions by 300.0 - Fluoride	100		80-120			1.3		1.0		22* (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.0	J	0.80	U	200* (1)	20
Batch number: 11144039401B	Sample number(s): 6293449 BKG: P293424										
18a pH by 9045C						8.34		8.36		0	3
Batch number: 11144039402A	Sample number(s): 6293450-6293457,6293460-6293461 BKG: 6293457										
18a pH by 9045C						7.95		7.93		0	3
Batch number: 11144039402B	Sample number(s): 6293462-6293466 BKG: 6293465										
18a pH by 9045C						7.84		7.82		0	3
Batch number: 11147162402A	Sample number(s): 6293464-6293465 BKG: P292036										
Moisture Content by 160.3						9.5		8.9		7	20
Batch number: 11153162401A	Sample number(s): 6293449-6293463,6293466 BKG: 6293457										
28a Moisture Content by 160.3						13.3		14.4		8	20
Moisture Content by 160.3						13.3		14.4		8	20
Moisture Content by 160.3						13.3		14.4		8	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11143SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6293449	88	89	76	84	83	79
6293450	86	86	77	84	83	79
6293451	87	87	77	81	82	83
6293452	85	86	79	81	80	81
6293453	83	83	76	81	81	76
6293454	89	90	79	84	85	83
6293455	92	92	75	84	83	84
6293456	90	90	82	85	87	78
6293457	86	86	76	84	85	81
6293458	87	88	79	82	84	78
6293459	90	91	82	86	86	81
6293461	87	88	76	85	85	80
6293462	85	87	73	83	83	74
6293463	88	88	81	88	88	81
6293464	88	89	80	88	90	83
6293465	86	87	72	85	84	71
6293466	91	90	77	86	84	86
Blank	78	82	80	81	80	76
LCS	91	92	85	90	87	85
MS	87	88	79	82	84	78
MSD	90	91	82	86	86	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11143SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6293449	103	97	87
6293450	106	96	87
6293451	108	97	83
6293452	101	85	75
6293453	116	97	80
6293454	95	83	73
6293455	88	79	72
6293456	85	74	68
6293457	96	89	90
6293458	107	90	95
6293459	102	95	91
6293461	83	72	70
6293462	68	64	100
6293463	93	86	96
6293464	97	93	95
6293465	96	84	97
6293466	92	88	84
Blank	121	106	112
LCS	104	96	98
MS	107	90	95
MSD	102	95	91
Limits:	40-130	45-130	45-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Surrogate Quality Control

Analysis Name: 15a NDMA by 1625C
Batch number: 11143SLH026

	N-Nitrosodimethylamine-d6
6293449	108
6293450	75
6293451	136
6293452	99
6293453	99
6293454	89
6293455	116
6293456	99
6293457	103
6293458	189*
6293459	145
6293461	101
6293462	95
6293463	98
6293466	104
Blank	140
LCS	116
MS	189*
MSD	145
Limits:	50-150

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111430022A

	2,4-Dichlorophenylacetic acid
6293449	116
6293450	112
6293452	134
6293457	112
6293458	108
6293459	98
Blank	68
LCS	92
MS	108
MSD	98
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111440021A

	2,4-Dichlorophenylacetic acid
6293463	91
Blank	75
LCS	97
MS	104
MSD	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Surrogate Quality Control

Limits: 36-156

Analysis Name: 16a Energetics by 8330A
Batch number: 111450005A

	2-Nitro-m-xylene
6293449	115
6293450	131
6293451	130
6293452	124
6293453	123
6293454	131
6293455	132
6293456	128
6293457	118
6293458	117
6293459	117
6293461	123
6293462	117
6293463	117
6293466	125
Blank	125
LCS	120
LCSD	121
MS	117
MSD	117
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111450022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6293449	109	94
6293450	119	98
6293451	109	95
6293452	115	101
6293453	119	101
6293454	123	97
6293455	112	72
6293456	112	84
6293457	115	85
6293458	120	92
6293459	125	96
6293461	99	78
6293462	96	85
6293463	89	74
6293464	105	60
6293465	98	78
6293466	112	63
Blank	110	99
LCS	115	106
LCSD	113	106
MS	120	92
MSD	125	96
Limits:	53-139	45-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Surrogate Quality Control

Analysis Name: 12a Pesticides by 8081A
Batch number: 111450023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6293449	71	73
6293450	38*	40
6293451	73	86
6293452	74	84
6293453	78	93
6293454	76	84
6293455	73	71
6293456	76	96
6293457	64	79
6293458	53	125*
6293459	29*	54
6293461	82	125*
6293462	125	30
6293463	83	111
6293464	93	102
6293465	101	0*
6293466	156*	190*
Blank	91	108
LCS	92	115
MS	53	125*
MSD	29*	54
Limits:	50-130	20-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111510009A

	Butyraldehyde
6293449	117
6293450	108
6293451	105
6293452	108
6293453	113
6293454	105
6293455	115
6293456	99
6293457	109
6293458	103
6293459	97
6293461	110
6293462	102
6293463	101
6293466	92
Blank	90
LCS	100
MS	103
MSD	97
Limits:	64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111510018A

	2,4-Dichlorophenylacetic

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Surrogate Quality Control

	acid
6293451	84
6293453	104
6293454	75
6293455	107
6293456	95
6293461	101
6293462	114
6293464	90
6293465	122
6293466	97
Blank	96
LCS	88
MS	75
MSD	75
Limits:	36-156

Analysis Name: 19a Alcohols by 8015B
Batch number: 111400025A

	Acetone
6293449	71
6293450	74
6293451	71
6293452	71
6293453	77
6293454	74
6293455	72
6293456	73
6293457	70
6293458	124
6293459	91
6293461	72
6293462	72
6293463	74
6293466	75
Blank	92
LCS	90
MS	124
MSD	91
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111430018A

	Tetramethylene glycol
6293449	84
6293450	86
6293451	81
6293452	85
6293453	85
Blank	90
LCS	96
MS	78

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Surrogate Quality Control

MSD	77	
Limits:	29-137	

Analysis Name: 21a Glycols by 8015B
Batch number: 111440003A

	Tetramethylene glycol
6293454	98
6293455	91
6293456	91
6293457	88
6293458	91
6293459	92
6293461	97
6293462	94
6293463	93
6293466	93
Blank	90
LCS	94
MS	91
MSD	92
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111440029A

	Chlorobenzene	Orthoterphenyl
6293449	83	99
6293450	70	86
6293451	77	96
6293452	83	95
6293453	84	97
6293454	68	84
6293455	66	85
6293456	73	92
6293457	0*	87
6293458	0*	92
6293459	97	105
6293461	71	94
6293462	72	89
6293463	77	97
6293466	70	90
Blank	89	102
LCS	96	105
MS	0*	92
MSD	97	105
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111440030A

	n-Triacontane-d62
6293449	72
6293450	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247822
Reported: 06/21/11 at 03:35 PM

Surrogate Quality Control

6293451	83
6293452	66
6293453	139
6293454	78
6293455	74
6293456	77
6293457	99
6293458	76
6293459	78
6293461	112
6293462	218*
6293463	131
6293466	118
Blank	96
LCS	87
MS	76
MSD	78
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1247822 Sample#6293449-66

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-030-SA5DN-SS-0.0-0.5	5/19/11	1510	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-030-SA5DN-SS-0.0-0.5	5/19/11	1510	SOIL	NONE	1-SS sleeve			X	X																	
SL-031-SA5DN-SS-0.0-0.5	5/19/11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-031-SA5DN-SS-0.0-0.5	5/19/11	1440	SOIL	NONE	1-SS sleeve			X	X																	
SL-032-SA5DN-SS-0.0-0.5	5/19/11	1253	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-032-SA5DN-SS-0.0-0.5	5/19/11	1253	SOIL	NONE	1-SS sleeve			X	X																	
SL-033-SA5DN-SS-0.0-0.5	5/19/11	1320	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-033-SA5DN-SS-0.0-0.5	5/19/11	1320	SOIL	NONE	1-SS sleeve			X	X																	
SL-034-SA5DN-SS-0.0-0.5	5/19/11	1414	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-034-SA5DN-SS-0.0-0.5	5/19/11	1414	SOIL	NONE	1-SS sleeve			X	X																	
SL-035-SA5DN-SS-0.0-0.5	5/19/11	1350	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-035-SA5DN-SS-0.0-0.5	5/19/11	1350	SOIL	NONE	1-SS sleeve			X	X																	
SL-041-SA5DN-SS-0.0-0.5	5/19/11	1028	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-041-SA5DN-SS-0.0-0.5	5/19/11	1028	SOIL	NONE	1-SS sleeve			X	X																	
SL-042-SA5DN-SS-0.0-0.5	5/19/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-042-SA5DN-SS-0.0-0.5	5/19/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-043-SA5DN-SS-0.0-0.5MS	5/19/11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-043-SA5DN-SS-0.0-0.5MS	5/19/11	0930	SOIL	NONE	1-SS sleeve			X	X																	MS/MSD sample
SL-045-SA5DN-SS-0.0-0.5	5/19/11	1050	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SS-0.0-0.5	5/19/11	1050	SOIL	NONE	1-SS sleeve			X	X																	
SL-046-SA5DN-SS-0.0-0.5	5/19/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SS-0.0-0.5	5/19/11	0915	SOIL	NONE	1-SS sleeve			X	X																	
SL-047-SA5DN-SS-0.0-0.5	5/19/11	0830	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SS-0.0-0.5	5/19/11	0830	SOIL	NONE	1-SS sleeve			X	X																	
SL-048-SA5DN-SS-0.0-0.5	5/19/11	0850	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-048-SA5DN-SS-0.0-0.5	5/19/11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-049-SA5DN-SS-0.0-0.5	5/19/11	1110	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-049-SA5DN-SS-0.0-0.5	5/19/11	1110	SOIL	NONE	1-SS sleeve			X	X																	
DUP-04-SA5DN-QC-051911	5/19/11	0940	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP-04-SA5DN-QC-051911	5/19/11	0940	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/19/2011 / 1700	LA 5/20/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1441 7870; 8695 1441 7880 8695 1441 7891; 8695 1441 7906 8695 1441 7917	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/20/2011
Group Number: 1247824
SDG: DX084
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-030-SA5DN-SS-0.0-0.5 Soil	6293471
SL-031-SA5DN-SS-0.0-0.5 Soil	6293472
SL-032-SA5DN-SS-0.0-0.5 Soil	6293473
SL-033-SA5DN-SS-0.0-0.5 Soil	6293474
SL-034-SA5DN-SS-0.0-0.5 Soil	6293475
SL-035-SA5DN-SS-0.0-0.5 Soil	6293476

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293471
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8415 SDG#: DX084-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293471
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8415 SDG#: DX084-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	23.0	B	0.0745	5.74	1
11031	1234678-HpCDF	67562-39-4	1.64	JB	0.0285	5.74	1
11031	1234789-HpCDF	55673-89-7	0.213	JB	0.0387	5.74	1
11031	123478-HxCDD	39227-28-6	0.273	JB	0.0461	5.74	1
11031	123478-HxCDF	70648-26-9	0.592	JBQ	0.0391	5.74	1
11031	123678-HxCDD	57653-85-7	0.784	JB	0.0476	5.74	1
11031	123678-HxCDF	57117-44-9	0.322	JB	0.0332	5.74	1
11031	123789-HxCDD	19408-74-3	0.659	JB	0.0425	5.74	1
11031	123789-HxCDF	72918-21-9	0.432	JB	0.0306	5.74	1
11031	12378-PeCDD	40321-76-4	0.309	JBQ	0.0338	5.74	1
11031	12378-PeCDF	57117-41-6	0.283	JBQ	0.0278	5.74	1
11031	234678-HxCDF	60851-34-5	0.287	JBQ	0.0287	5.74	1
11031	23478-PeCDF	57117-31-4	0.388	JB	0.0299	5.74	1
11031	2378-TCDD	1746-01-6	0.0662	JQ	0.0266	1.15	1
11031	2378-TCDF	51207-31-9	0.120	JB	0.0468	1.15	1
11031	OCDD	3268-87-9	318	B	0.0780	11.5	1
11031	OCDF	39001-02-0	3.61	JB	0.0440	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293471
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8415 SDG#: DX084-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293471
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 15:10

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8415 SDG#: DX084-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/29/2011 10:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293472
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8416 SDG#: DX084-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293472
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8416 SDG#: DX084-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0304 U	0.0304	1.16	1
11031	12378-PeCDD	40321-76-4	0.0773 JBQ	0.0259	5.78	1
11031	123478-HxCDD	39227-28-6	0.0799 JB	0.0267	5.78	1
11031	123678-HxCDD	57653-85-7	0.212 JBQ	0.0285	5.78	1
11031	123789-HxCDD	19408-74-3	0.202 JBQ	0.0279	5.78	1
11031	1234678-HpCDD	35822-46-9	3.26 JB	0.0376	5.78	1
11031	OCDD	3268-87-9	53.7 B	0.0434	11.6	1
11031	2378-TCDF	51207-31-9	0.0401 U	0.0401	1.16	1
11031	12378-PeCDF	57117-41-6	0.0611 JBQ	0.0184	5.78	1
11031	23478-PeCDF	57117-31-4	0.0964 JB	0.0192	5.78	1
11031	123478-HxCDF	70648-26-9	0.0524 JB	0.0213	5.78	1
11031	123678-HxCDF	57117-44-9	0.0616 JB	0.0174	5.78	1
11031	123789-HxCDF	72918-21-9	0.122 JB	0.0254	5.78	1
11031	234678-HxCDF	60851-34-5	0.0882 JB	0.0192	5.78	1
11031	1234678-HpCDF	67562-39-4	0.314 JB	0.0127	5.78	1
11031	1234789-HpCDF	55673-89-7	0.0416 JBQ	0.0228	5.78	1
11031	OCDF	39001-02-0	0.814 JB	0.0491	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-031-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293472
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8416 SDG#: DX084-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-031-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293472
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:40

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8416 SDG#: DX084-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/07/2011 10:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293473
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8417 SDG#: DX084-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293473
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8417 SDG#: DX084-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243	JBQ	0.0242	1.11	1
11031	12378-PeCDD	40321-76-4	0.125	JB	0.0237	5.55	1
11031	123478-HxCDD	39227-28-6	0.130	JBQ	0.0215	5.55	1
11031	123678-HxCDD	57653-85-7	0.576	JB	0.0229	5.55	1
11031	123789-HxCDD	19408-74-3	0.579	JB	0.0223	5.55	1
11031	1234678-HpCDD	35822-46-9	15.0	B	0.0359	5.55	1
11031	OCDD	3268-87-9	189	B	0.0436	11.1	1
11031	2378-TCDF	51207-31-9	0.984	JB	0.103	1.11	1
11031	12378-PeCDF	57117-41-6	0.356	JB	0.0265	5.55	1
11031	23478-PeCDF	57117-31-4	0.876	JB	0.0274	5.55	1
11031	123478-HxCDF	70648-26-9	0.582	JB	0.0206	5.55	1
11031	123678-HxCDF	57117-44-9	0.158	JBQ	0.0189	5.55	1
11031	123789-HxCDF	72918-21-9	0.356	JB	0.0237	5.55	1
11031	234678-HxCDF	60851-34-5	0.147	JBQ	0.0187	5.55	1
11031	1234678-HpCDF	67562-39-4	1.21	JB	0.0126	5.55	1
11031	1234789-HpCDF	55673-89-7	0.205	JB	0.0181	5.55	1
11031	OCDF	39001-02-0	3.06	JB	0.0235	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293473
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8417 SDG#: DX084-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293473
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 12:53

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8417 SDG#: DX084-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11151003	06/06/2011 11:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11151003	05/31/2011 14:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293474
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8418 SDG#: DX084-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293474
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8418 SDG#: DX084-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	11.3	B	0.0495	5.82	1
11031	1234678-HpCDF	67562-39-4	2.82	JB	0.0294	5.82	1
11031	1234789-HpCDF	55673-89-7	0.104	JBQ	0.0260	5.82	1
11031	123478-HxCDD	39227-28-6	0.145	JBQ	0.0463	5.82	1
11031	123478-HxCDF	70648-26-9	0.293	JBQ	0.0643	5.82	1
11031	123678-HxCDD	57653-85-7	0.504	JB	0.0468	5.82	1
11031	123678-HxCDF	57117-44-9	0.273	JBQ	0.0502	5.82	1
11031	123789-HxCDD	19408-74-3	0.553	JBQ	0.0432	5.82	1
11031	123789-HxCDF	72918-21-9	0.423	JB	0.0277	5.82	1
11031	12378-PeCDD	40321-76-4	0.154	JBQ	0.0325	5.82	1
11031	12378-PeCDF	57117-41-6	0.0945	JBQ	0.0226	5.82	1
11031	234678-HxCDF	60851-34-5	0.377	JBQ	0.0225	5.82	1
11031	23478-PeCDF	57117-31-4	0.155	JBQ	0.0239	5.82	1
11031	2378-TCDD	1746-01-6	0.0495	JQ	0.0228	1.16	1
11031	2378-TCDF	51207-31-9	0.0515	JBQ	0.0339	1.16	1
11031	OCDD	3268-87-9	152	B	0.0658	11.6	1
11031	OCDF	39001-02-0	2.14	JB	0.0416	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	34	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	51	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293474
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8418 SDG#: DX084-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293474
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:20

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8418 SDG#: DX084-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/29/2011 12:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293475
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8419 SDG#: DX084-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293475
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8419 SDG#: DX084-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.161	U	0.161	1.09	1
11031	12378-PeCDD	40321-76-4	0.207	U	0.207	5.47	1
11031	123478-HxCDD	39227-28-6	0.267	JBQ	0.174	5.47	1
11031	123678-HxCDD	57653-85-7	0.622	JBQ	0.178	5.47	1
11031	123789-HxCDD	19408-74-3	0.524	JB	0.187	5.47	1
11031	1234678-HpCDD	35822-46-9	20.1	B	0.301	5.47	1
11031	OCDD	3268-87-9	241	B	0.278	10.9	1
11031	2378-TCDF	51207-31-9	0.258	U	0.258	1.09	1
11031	12378-PeCDF	57117-41-6	0.155	U	0.155	5.47	1
11031	23478-PeCDF	57117-31-4	0.491	JBQ	0.143	5.47	1
11031	123478-HxCDF	70648-26-9	0.287	JBQ	0.210	5.47	1
11031	123678-HxCDF	57117-44-9	0.517	JBQ	0.186	5.47	1
11031	123789-HxCDF	72918-21-9	0.371	JBQ	0.165	5.47	1
11031	234678-HxCDF	60851-34-5	0.447	JB	0.124	5.47	1
11031	1234678-HpCDF	67562-39-4	1.85	JBQ	0.153	5.47	1
11031	1234789-HpCDF	55673-89-7	0.428	JBQ	0.165	5.47	1
11031	OCDF	39001-02-0	3.78	JB	0.236	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	72	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-034-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293475
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8419 SDG#: DX084-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293475
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 14:14

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8419 SDG#: DX084-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	06/02/2011 03:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293476
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8420 SDG#: DX084-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293476
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8420 SDG#: DX084-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	1234678-HpCDD	35822-46-9	2.86	JB	0.0516	5.62	1
11031	1234678-HpCDF	67562-39-4	0.392	JBQ	0.0202	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0450	JBQ	0.0298	5.62	1
11031	123478-HxCDD	39227-28-6	0.0708	JBQ	0.0430	5.62	1
11031	123478-HxCDF	70648-26-9	0.173	JBQ	0.0427	5.62	1
11031	123678-HxCDD	57653-85-7	0.445	JB	0.0424	5.62	1
11031	123678-HxCDF	57117-44-9	0.0348	U	0.0348	5.62	1
11031	123789-HxCDD	19408-74-3	0.554	JBQ	0.0396	5.62	1
11031	123789-HxCDF	72918-21-9	0.751	JBQ	0.0313	5.62	1
11031	12378-PeCDD	40321-76-4	0.116	JBQ	0.0385	5.62	1
11031	12378-PeCDF	57117-41-6	0.163	JB	0.0299	5.62	1
11031	234678-HxCDF	60851-34-5	0.109	JB	0.0228	5.62	1
11031	23478-PeCDF	57117-31-4	0.101	JB	0.0294	5.62	1
11031	2378-TCDD	1746-01-6	0.0308	U	0.0308	1.12	1
11031	2378-TCDF	51207-31-9	0.0460	U	0.0460	1.12	1
11031	OCDD	3268-87-9	33.9	B	0.0509	11.2	1
11031	OCDF	39001-02-0	0.750	JBQ	0.0611	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	69	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293476
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8420 SDG#: DX084-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293476
LLI Group # 1247824
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 13:50

Submitted: 05/20/2011 09:20
Reported: 06/12/2011 18:26

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8420 SDG#: DX084-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11144001	05/29/2011 14:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11144001	05/24/2011 12:20	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247824
Reported: 06/12/11 at 06:26 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11153162401A	Sample number(s): 6293471-6293476								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11144001	Sample number(s): 6293471,6293474-6293476								
2378-TCDD	0.0293 U	0.0293	1.00	ng/kg	98		67-158		
2378-TCDF	0.0330 J	0.0296	1.00	ng/kg	111		75-158		
12378-PeCDD	0.0618 J	0.0274	5.00	ng/kg	101		70-142		
12378-PeCDF	0.0544 J	0.0163	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0554 J	0.0173	5.00	ng/kg	104		68-160		
123478-HxCDD	0.0371 J	0.0203	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0613 J	0.0206	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0642 J	0.0185	5.00	ng/kg	102		64-162		
123478-HxCDF	0.102 J	0.0254	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0849 J	0.0203	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0750 J	0.0171	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0778 J	0.0136	5.00	ng/kg	105		70-156		
1234678-HpCDD	0.229 J	0.0287	5.00	ng/kg	101		70-140		
1234678-HpCDF	0.170 J	0.0158	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.109 J	0.0196	5.00	ng/kg	104		78-138		
OCDD	0.871 J	0.0253	10.0	ng/kg	102		78-144		
OCDF	0.386 J	0.0410	10.0	ng/kg	104		63-170		
Batch number: 11151003	Sample number(s): 6293472-6293473								
2378-TCDD	0.0218 J	0.0171	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0560 J	0.0171	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0479 J	0.0145	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0457 J	0.0149	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0778 J	0.0148	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.200 J	0.0183	5.00	ng/kg	101		70-140		
OCDD	0.455 J	0.0201	10.0	ng/kg	100		78-144		
2378-TCDF	0.0191 J	0.0160	1.00	ng/kg	112		75-158		
12378-PeCDF	0.0666 J	0.00750	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0691 J	0.00760	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0539 J	0.0111	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0472 J	0.00920	5.00	ng/kg	98		84-130		
123789-HxCDF	0.111 J	0.0127	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0660 J	0.0100	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.109 J	0.00700	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0942 J	0.0121	5.00	ng/kg	100		78-138		
OCDF	0.232 J	0.0263	10.0	ng/kg	102		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247824
Reported: 06/12/11 at 06:26 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11153162401A	Sample number(s): 6293471-6293476					BKG: P293457			
Moisture Content by 160.3						13.3	14.4	8	20
Batch number: 11144001	Sample number(s): 6293471,6293474-6293476 UNSPK: P292024								
2378-TCDD	107	102	67-158	3	25				
2378-TCDF	109	109	75-158	1	25				
12378-PeCDD	117	104	70-142	10	25				
12378-PeCDF	105	106	80-134	2	25				
23478-PeCDF	106	105	68-160	0	25				
123478-HxCDD	126	108	70-164	13	25				
123678-HxCDD	158*	110	76-134	28*	25				
123789-HxCDD	155	109	64-162	28*	25				
123478-HxCDF	111	107	72-134	3	25				
123678-HxCDF	105	106	84-130	1	25				
123789-HxCDF	106	106	78-130	1	25				
234678-HxCDF	107	106	70-156	0	25				
1234678-HpCDD	1352 (2)	286 (2)	70-140	67*	25				
1234678-HpCDF	155*	105	82-122	28*	25				
1234789-HpCDF	107	105	78-138	2	25				
OCDD	15695 (2)	2327 (2)	78-144	82*	25				
OCDF	242*	125	63-170	45*	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11144001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6293471	82	86	64	73	86	91
6293474	69	73	28	34	73	71
6293475	68	74	51	57	79	78
6293476	57	61	36	44	65	55
Blank	67	67	39	47	69	65
MS	71	78	62	72	78	79
MSD	72	81	69	78	79	77
OPR	62	69	51	62	71	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6293471	94	84	80	89	85	78
6293474	51	69	66	78	75	65

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247824
Reported: 06/12/11 at 06:26 PM

Surrogate Quality Control

6293475	66	77	79	72	68	70
6293476	67	54	53	69	62	60
Blank	71	71	77	81	73	67
MS	83	81	85	78	78	76
MSD	87	80	83	80	82	75
OPR	88	75	82	78	76	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6293471	79	87	91	93	84	94
6293474	64	70	77	82	72	81
6293475	73	73	76	79	73	76
6293476	62	66	67	72	58	67
Blank	68	75	83	97	62	75
MS	74	76	83	96	72	83
MSD	76	77	84	94	73	87
OPR	73	76	86	100	59	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11151003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6293472	79	82	64	73	67	58
6293473	79	74	77	79	75	72
Blank	71	72	69	78	75	68
OPR	60	59	53	64	62	54
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6293472	79	50	39	94	92	72
6293473	76	62	50	91	76	76
Blank	95	68	65	89	78	82
OPR	82	54	52	79	66	70
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6293472	73	72	65	52	69	91
6293473	74	77	68	57	79	80
Blank	81	81	83	82	43	79
OPR	67	70	72	72	54	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1247824 sample#6293471-76

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-030-SA5DN-SS-0.0-0.5	5/19/11	1510	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-030-SA5DN-SS-0.0-0.5	5/19/11	1510	SOIL	NONE	1-SS sleeve			X	X																	
SL-031-SA5DN-SS-0.0-0.5	5/19/11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-031-SA5DN-SS-0.0-0.5	5/19/11	1440	SOIL	NONE	1-SS sleeve			X	X																	
SL-032-SA5DN-SS-0.0-0.5	5/19/11	1253	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-032-SA5DN-SS-0.0-0.5	5/19/11	1253	SOIL	NONE	1-SS sleeve			X	X																	
SL-033-SA5DN-SS-0.0-0.5	5/19/11	1320	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-033-SA5DN-SS-0.0-0.5	5/19/11	1320	SOIL	NONE	1-SS sleeve			X	X																	
SL-034-SA5DN-SS-0.0-0.5	5/19/11	1414	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-034-SA5DN-SS-0.0-0.5	5/19/11	1414	SOIL	NONE	1-SS sleeve			X	X																	
SL-035-SA5DN-SS-0.0-0.5	5/19/11	1350	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-035-SA5DN-SS-0.0-0.5	5/19/11	1350	SOIL	NONE	1-SS sleeve			X	X																	
SL-041-SA5DN-SS-0.0-0.5	5/19/11	1028	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-041-SA5DN-SS-0.0-0.5	5/19/11	1028	SOIL	NONE	1-SS sleeve			X	X																	
SL-042-SA5DN-SS-0.0-0.5	5/19/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-042-SA5DN-SS-0.0-0.5	5/19/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-043-SA5DN-SS-0.0-0.5MS	5/19/11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-043-SA5DN-SS-0.0-0.5MS	5/19/11	0930	SOIL	NONE	1-SS sleeve			X	X																	MS/MSD sample
SL-045-SA5DN-SS-0.0-0.5	5/19/11	1050	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SS-0.0-0.5	5/19/11	1050	SOIL	NONE	1-SS sleeve			X	X																	
SL-046-SA5DN-SS-0.0-0.5	5/19/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SS-0.0-0.5	5/19/11	0915	SOIL	NONE	1-SS sleeve			X	X																	
SL-047-SA5DN-SS-0.0-0.5	5/19/11	0830	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SS-0.0-0.5	5/19/11	0830	SOIL	NONE	1-SS sleeve			X	X																	
SL-048-SA5DN-SS-0.0-0.5	5/19/11	0850	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-048-SA5DN-SS-0.0-0.5	5/19/11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-049-SA5DN-SS-0.0-0.5	5/19/11	1110	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-049-SA5DN-SS-0.0-0.5	5/19/11	1110	SOIL	NONE	1-SS sleeve			X	X																	
DUP-04-SA5DN-QC-051911	5/19/11	0940	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP-04-SA5DN-QC-051911	5/19/11	0940	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/19/2011 / 1700	LII 5/20/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1441 7870; 8695 1441 7880 8695 1441 7891; 8695 1441 7906 8695 1441 7917	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/20/2011
Group Number: 1247826
SDG: DX086
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA5DN-SS-0.0-0.5 Soil	6293485
SL-042-SA5DN-SS-0.0-0.5 Soil	6293486
SL-043-SA5DN-SS-0.0-0.5 Soil	6293487
SL-043-SA5DN-SS-0.0-0.5MS Soil	6293488
SL-043-SA5DN-SS-0.0-0.5MSD Soil	6293489
SL-045-SA5DN-SS-0.0-0.5 Soil	6293490
SL-046-SA5DN-SS-0.0-0.5 Soil	6293491
SL-047-SA5DN-SS-0.0-0.5 Soil	6293492
SL-048-SA5DN-SS-0.0-0.5 Soil	6293493
SL-049-SA5DN-SS-0.0-0.5 Soil	6293494
DUP-04-SA5DN-QC-051911 Soil	6293495

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293485
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8601 SDG#: DX086-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293485
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8601 SDG#: DX086-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0508	JB	0.0208	1.17	1
11031	12378-PeCDD	40321-76-4	0.347	JBQ	0.0321	5.83	1
11031	123478-HxCDD	39227-28-6	0.996	JB	0.0540	5.83	1
11031	123678-HxCDD	57653-85-7	6.21	B	0.0590	5.83	1
11031	123789-HxCDD	19408-74-3	2.77	JB	0.0574	5.83	1
11031	1234678-HpCDD	35822-46-9	438	B	0.160	5.83	1
11031	OCDD	3268-87-9	5,340	EB	0.116	11.7	1
11031	2378-TCDF	51207-31-9	0.375	J	0.0692	1.17	1
11031	12378-PeCDF	57117-41-6	0.243	JBQ	0.0273	5.83	1
11031	23478-PeCDF	57117-31-4	0.560	JB	0.0248	5.83	1
11031	123478-HxCDF	70648-26-9	0.651	JB	0.0303	5.83	1
11031	123678-HxCDF	57117-44-9	0.377	JB	0.0292	5.83	1
11031	123789-HxCDF	72918-21-9	0.660	JB	0.0334	5.83	1
11031	234678-HxCDF	60851-34-5	0.442	JB	0.0307	5.83	1
11031	1234678-HpCDF	67562-39-4	11.4	B	0.0313	5.83	1
11031	1234789-HpCDF	55673-89-7	0.878	JB	0.0402	5.83	1
11031	OCDF	39001-02-0	35.0	B	0.0278	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293485
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8601 SDG#: DX086-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293485
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:28

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8601 SDG#: DX086-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 08:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293486
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8602 SDG#: DX086-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	45.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293486
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8602 SDG#: DX086-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0895	JBQ	0.0405	1.84	1
11031	12378-PeCDD	40321-76-4	0.428	JBQ	0.0516	9.18	1
11031	123478-HxCDD	39227-28-6	0.567	JB	0.0804	9.18	1
11031	123678-HxCDD	57653-85-7	2.12	JB	0.0832	9.18	1
11031	123789-HxCDD	19408-74-3	1.47	JB	0.0802	9.18	1
11031	1234678-HpCDD	35822-46-9	100	B	0.139	9.18	1
11031	OCDD	3268-87-9	1,340	B	0.137	18.4	1
11031	2378-TCDF	51207-31-9	0.227	J	0.102	1.84	1
11031	12378-PeCDF	57117-41-6	0.293	JB	0.0418	9.18	1
11031	23478-PeCDF	57117-31-4	0.366	JBQ	0.0377	9.18	1
11031	123478-HxCDF	70648-26-9	0.424	JBQ	0.0494	9.18	1
11031	123678-HxCDF	57117-44-9	0.282	JB	0.0444	9.18	1
11031	123789-HxCDF	72918-21-9	0.625	JB	0.0466	9.18	1
11031	234678-HxCDF	60851-34-5	0.285	JBQ	0.0412	9.18	1
11031	1234678-HpCDF	67562-39-4	4.65	JB	0.0447	9.18	1
11031	1234789-HpCDF	55673-89-7	0.442	JB	0.0566	9.18	1
11031	OCDF	39001-02-0	11.8	JB	0.0567	18.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293486
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8602 SDG#: DX086-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293486
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8602 SDG#: DX086-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 09:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293487
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293487
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0353	JB	0.0197	1.13	1
11031	12378-PeCDD	40321-76-4	0.337	JB	0.0291	5.67	1
11031	123478-HxCDD	39227-28-6	0.580	JB	0.0384	5.67	1
11031	123678-HxCDD	57653-85-7	1.77	JB	0.0411	5.67	1
11031	123789-HxCDD	19408-74-3	1.49	JB	0.0399	5.67	1
11031	1234678-HpCDD	35822-46-9	68.7	B	0.0774	5.67	1
11031	OCDD	3268-87-9	947	B	0.0659	11.3	1
11031	2378-TCDF	51207-31-9	0.196	JQ	0.0445	1.13	1
11031	12378-PeCDF	57117-41-6	0.106	JBQ	0.0268	5.67	1
11031	23478-PeCDF	57117-31-4	0.235	JBQ	0.0249	5.67	1
11031	123478-HxCDF	70648-26-9	0.522	JB	0.0260	5.67	1
11031	123678-HxCDF	57117-44-9	0.241	JB	0.0231	5.67	1
11031	123789-HxCDF	72918-21-9	0.420	JB	0.0275	5.67	1
11031	234678-HxCDF	60851-34-5	0.333	JB	0.0232	5.67	1
11031	1234678-HpCDF	67562-39-4	4.81	JB	0.0265	5.67	1
11031	1234789-HpCDF	55673-89-7	0.407	JB	0.0332	5.67	1
11031	OCDF	39001-02-0	13.1	B	0.0240	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-043-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293487
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293487
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 10:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293488
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293488
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.3	B	0.0309	1.15	1
11031	12378-PeCDD	40321-76-4	117	B	0.0394	5.76	1
11031	123478-HxCDD	39227-28-6	116	B	0.0499	5.76	1
11031	123678-HxCDD	57653-85-7	120	B	0.0557	5.76	1
11031	123789-HxCDD	19408-74-3	116	B	0.0514	5.76	1
11031	1234678-HpCDD	35822-46-9	159	B	0.0814	5.76	1
11031	OCDD	3268-87-9	839	B	0.0679	11.5	1
11031	2378-TCDF	51207-31-9	24.0		0.0464	1.15	1
11031	12378-PeCDF	57117-41-6	119	B	0.0389	5.76	1
11031	23478-PeCDF	57117-31-4	120	B	0.0368	5.76	1
11031	123478-HxCDF	70648-26-9	119	B	0.0768	5.76	1
11031	123678-HxCDF	57117-44-9	116	B	0.0657	5.76	1
11031	123789-HxCDF	72918-21-9	118	B	0.0654	5.76	1
11031	234678-HxCDF	60851-34-5	119	B	0.0578	5.76	1
11031	1234678-HpCDF	67562-39-4	120	B	0.0573	5.76	1
11031	1234789-HpCDF	55673-89-7	117	B	0.0651	5.76	1
11031	OCDF	39001-02-0	242	B	0.0451	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293488
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293488
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 14:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293489
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293489
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.3	B	0.0251	1.15	1
11031	12378-PeCDD	40321-76-4	118	B	0.0356	5.76	1
11031	123478-HxCDD	39227-28-6	117	B	0.0461	5.76	1
11031	123678-HxCDD	57653-85-7	121	B	0.0502	5.76	1
11031	123789-HxCDD	19408-74-3	118	B	0.0475	5.76	1
11031	1234678-HpCDD	35822-46-9	169	B	0.0799	5.76	1
11031	OCDD	3268-87-9	1,000	B	0.0667	11.5	1
11031	2378-TCDF	51207-31-9	24.2		0.0434	1.15	1
11031	12378-PeCDF	57117-41-6	120	B	0.0337	5.76	1
11031	23478-PeCDF	57117-31-4	120	B	0.0322	5.76	1
11031	123478-HxCDF	70648-26-9	121	B	0.0563	5.76	1
11031	123678-HxCDF	57117-44-9	117	B	0.0540	5.76	1
11031	123789-HxCDF	72918-21-9	119	B	0.0561	5.76	1
11031	234678-HxCDF	60851-34-5	119	B	0.0533	5.76	1
11031	1234678-HpCDF	67562-39-4	123	B	0.0445	5.76	1
11031	1234789-HpCDF	55673-89-7	120	B	0.0533	5.76	1
11031	OCDF	39001-02-0	248	B	0.0354	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-043-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293489
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-043-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293489
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8603 SDG#: DX086-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 15:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293490
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8604 SDG#: DX086-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293490
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8604 SDG#: DX086-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0542	JBQ	0.0165	1.15	1
11031	12378-PeCDD	40321-76-4	0.401	JBQ	0.0309	5.75	1
11031	123478-HxCDD	39227-28-6	0.619	JB	0.0347	5.75	1
11031	123678-HxCDD	57653-85-7	2.26	JB	0.0356	5.75	1
11031	123789-HxCDD	19408-74-3	1.59	JB	0.0342	5.75	1
11031	1234678-HpCDD	35822-46-9	87.9	B	0.0795	5.75	1
11031	OCDD	3268-87-9	1,160	B	0.0643	11.5	1
11031	2378-TCDF	51207-31-9	0.317	JQ	0.0595	1.15	1
11031	12378-PeCDF	57117-41-6	0.471	JB	0.0247	5.75	1
11031	23478-PeCDF	57117-31-4	0.458	JB	0.0236	5.75	1
11031	123478-HxCDF	70648-26-9	0.556	JB	0.0218	5.75	1
11031	123678-HxCDF	57117-44-9	0.352	JBQ	0.0208	5.75	1
11031	123789-HxCDF	72918-21-9	0.719	JB	0.0246	5.75	1
11031	234678-HxCDF	60851-34-5	0.361	JB	0.0202	5.75	1
11031	1234678-HpCDF	67562-39-4	4.51	JB	0.0217	5.75	1
11031	1234789-HpCDF	55673-89-7	0.499	JB	0.0264	5.75	1
11031	OCDF	39001-02-0	12.3	B	0.0224	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293490
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8604 SDG#: DX086-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293490
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 10:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8604 SDG#: DX086-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 15:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293491
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8605 SDG#: DX086-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293491
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8605 SDG#: DX086-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.150	JBQ	0.0253	1.12	1
11031	12378-PeCDD	40321-76-4	0.563	JBQ	0.0385	5.61	1
11031	123478-HxCDD	39227-28-6	0.886	JB	0.0528	5.61	1
11031	123678-HxCDD	57653-85-7	3.24	JB	0.0578	5.61	1
11031	123789-HxCDD	19408-74-3	2.29	JB	0.0547	5.61	1
11031	1234678-HpCDD	35822-46-9	101	B	0.101	5.61	1
11031	OCDD	3268-87-9	1,430	B	0.116	11.2	1
11031	2378-TCDF	51207-31-9	0.347	JQ	0.0536	1.12	1
11031	12378-PeCDF	57117-41-6	0.223	JB	0.0286	5.61	1
11031	23478-PeCDF	57117-31-4	0.539	JB	0.0270	5.61	1
11031	123478-HxCDF	70648-26-9	0.518	JB	0.0283	5.61	1
11031	123678-HxCDF	57117-44-9	0.406	JB	0.0265	5.61	1
11031	123789-HxCDF	72918-21-9	0.721	JBQ	0.0303	5.61	1
11031	234678-HxCDF	60851-34-5	0.529	JB	0.0261	5.61	1
11031	1234678-HpCDF	67562-39-4	6.56	B	0.0367	5.61	1
11031	1234789-HpCDF	55673-89-7	0.630	JB	0.0426	5.61	1
11031	OCDF	39001-02-0	17.9	B	0.0422	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293491
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8605 SDG#: DX086-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293491
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:15

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8605 SDG#: DX086-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 16:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293492
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8606 SDG#: DX086-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293492
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8606 SDG#: DX086-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0170	U	0.0170	1.08	1
11031	12378-PeCDD	40321-76-4	0.745	JB	0.0326	5.39	1
11031	123478-HxCDD	39227-28-6	1.18	JB	0.0271	5.39	1
11031	123678-HxCDD	57653-85-7	4.03	JB	0.0274	5.39	1
11031	123789-HxCDD	19408-74-3	2.63	JB	0.0266	5.39	1
11031	1234678-HpCDD	35822-46-9	79.9	B	0.0635	5.39	1
11031	OCDD	3268-87-9	853	B	0.0702	10.8	1
11031	2378-TCDF	51207-31-9	0.155	J	0.0318	1.08	1
11031	12378-PeCDF	57117-41-6	0.299	JB	0.0202	5.39	1
11031	23478-PeCDF	57117-31-4	0.404	JBQ	0.0183	5.39	1
11031	123478-HxCDF	70648-26-9	0.587	JBQ	0.0237	5.39	1
11031	123678-HxCDF	57117-44-9	0.381	JB	0.0212	5.39	1
11031	123789-HxCDF	72918-21-9	0.442	JB	0.0210	5.39	1
11031	234678-HxCDF	60851-34-5	0.494	JBQ	0.0187	5.39	1
11031	1234678-HpCDF	67562-39-4	5.88	B	0.0217	5.39	1
11031	1234789-HpCDF	55673-89-7	0.434	JB	0.0251	5.39	1
11031	OCDF	39001-02-0	14.0	B	0.0258	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	109	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293492
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8606 SDG#: DX086-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293492
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:30

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8606 SDG#: DX086-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 17:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293493
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8607 SDG#: DX086-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293493
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8607 SDG#: DX086-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.164	JB	0.0183	1.07	1
11031	12378-PeCDD	40321-76-4	1.38	JB	0.0710	5.36	1
11031	123478-HxCDD	39227-28-6	2.68	JB	0.0765	5.36	1
11031	123678-HxCDD	57653-85-7	7.19	B	0.0780	5.36	1
11031	123789-HxCDD	19408-74-3	5.83	B	0.0724	5.36	1
11031	1234678-HpCDD	35822-46-9	223	B	0.169	5.36	1
11031	OCDD	3268-87-9	4,330	EB	0.179	10.7	1
11031	2378-TCDF	51207-31-9	0.698	J	0.118	1.07	1
11031	12378-PeCDF	57117-41-6	1.35	JB	0.0598	5.36	1
11031	23478-PeCDF	57117-31-4	1.02	JBQ	0.0552	5.36	1
11031	123478-HxCDF	70648-26-9	1.75	JB	0.0631	5.36	1
11031	123678-HxCDF	57117-44-9	1.09	JB	0.0630	5.36	1
11031	123789-HxCDF	72918-21-9	0.714	JB	0.0688	5.36	1
11031	234678-HxCDF	60851-34-5	1.39	JB	0.0596	5.36	1
11031	1234678-HpCDF	67562-39-4	25.5	B	0.0574	5.36	1
11031	1234789-HpCDF	55673-89-7	1.98	JB	0.0671	5.36	1
11031	OCDF	39001-02-0	112	B	0.0484	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293493
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8607 SDG#: DX086-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293493
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 08:50

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8607 SDG#: DX086-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11166001	06/16/2011 22:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11166001	06/15/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293494
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8608 SDG#: DX086-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293494
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8608 SDG#: DX086-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0302	JBQ	0.0149	1.09	1
11031	12378-PeCDD	40321-76-4	0.478	JBQ	0.0526	5.45	1
11031	123478-HxCDD	39227-28-6	0.724	JB	0.0594	5.45	1
11031	123678-HxCDD	57653-85-7	2.51	JB	0.0630	5.45	1
11031	123789-HxCDD	19408-74-3	2.23	JB	0.0601	5.45	1
11031	1234678-HpCDD	35822-46-9	59.5	B	0.0719	5.45	1
11031	OCDD	3268-87-9	772	B	0.0906	10.9	1
11031	2378-TCDF	51207-31-9	0.842	J	0.101	1.09	1
11031	12378-PeCDF	57117-41-6	1.01	JB	0.0504	5.45	1
11031	23478-PeCDF	57117-31-4	0.801	JB	0.0465	5.45	1
11031	123478-HxCDF	70648-26-9	0.759	JB	0.0484	5.45	1
11031	123678-HxCDF	57117-44-9	0.557	JB	0.0470	5.45	1
11031	123789-HxCDF	72918-21-9	1.29	JB	0.0484	5.45	1
11031	234678-HxCDF	60851-34-5	0.433	JBQ	0.0441	5.45	1
11031	1234678-HpCDF	67562-39-4	4.08	JB	0.0319	5.45	1
11031	1234789-HpCDF	55673-89-7	0.408	JB	0.0371	5.45	1
11031	OCDF	39001-02-0	9.69	JB	0.0421	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	184	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-049-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293494
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8608 SDG#: DX086-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-049-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SS-0.0-0.5

LLI Sample # SW 6293494
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 11:10

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8608 SDG#: DX086-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11166001	06/16/2011 23:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11166001	06/15/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11147162402A	05/27/2011 19:29	Scott W Freisher	1

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Analysis Report

Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293495
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8609 SDG#: DX086-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293495
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8609 SDG#: DX086-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0532	JQ	0.0147	1.15	1
11031	12378-PeCDD	40321-76-4	0.320	JBQ	0.0286	5.75	1
11031	123478-HxCDD	39227-28-6	0.614	JB	0.0720	5.75	1
11031	123678-HxCDD	57653-85-7	1.79	JB	0.0746	5.75	1
11031	123789-HxCDD	19408-74-3	1.41	JB	0.0715	5.75	1
11031	1234678-HpCDD	35822-46-9	69.9	B	0.116	5.75	1
11031	OCDD	3268-87-9	1,010	B	0.113	11.5	1
11031	2378-TCDF	51207-31-9	0.0428	U	0.0428	1.15	1
11031	12378-PeCDF	57117-41-6	0.107	JBQ	0.0265	5.75	1
11031	23478-PeCDF	57117-31-4	0.214	JB	0.0272	5.75	1
11031	123478-HxCDF	70648-26-9	0.639	JB	0.0487	5.75	1
11031	123678-HxCDF	57117-44-9	0.235	JBQ	0.0420	5.75	1
11031	123789-HxCDF	72918-21-9	0.393	JBQ	0.0417	5.75	1
11031	234678-HxCDF	60851-34-5	0.307	JB	0.0329	5.75	1
11031	1234678-HpCDF	67562-39-4	4.79	JB	0.0411	5.75	1
11031	1234789-HpCDF	55673-89-7	0.371	JB	0.0485	5.75	1
11031	OCDF	39001-02-0	13.1	B	0.0469	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293495
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8609 SDG#: DX086-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-04-SA5DN-QC-051911 Soil
SSFL Area IV Collocated Soil Sampling
DUP-04-SA5DN-QC-051911

LLI Sample # SW 6293495
LLI Group # 1247826
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/19/2011 09:40

Submitted: 05/20/2011 09:20
Reported: 06/17/2011 13:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8609 SDG#: DX086-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160001	06/13/2011 16:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11160001	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401A	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247826
Reported: 06/17/11 at 01:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11147162402A	Sample number(s): 6293493-6293494								
Moisture Content by 160.3					100		80-120		
Batch number: 11153162401A	Sample number(s): 6293485-6293492,6293495								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11153002	Sample number(s): 6293485-6293492								
2378-TCDD	0.0252 J	0.0193	1.00	ng/kg	96		67-158		
12378-PeCDD	0.0737 J	0.0192	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0425 J	0.0141	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0671 J	0.0150	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0834 J	0.0147	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.270 J	0.0188	5.00	ng/kg	102		70-140		
OCDD	0.693 J	0.0118	10.0	ng/kg	100		78-144		
2378-TCDF	0.0187 U	0.0187	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0439 J	0.0108	5.00	ng/kg	103		80-134		
23478-PeCDF	0.120 J	0.0112	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0952 J	0.0141	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0873 J	0.0119	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0864 J	0.0152	5.00	ng/kg	103		78-130		
234678-HxCDF	0.0909 J	0.0128	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.178 J	0.00760	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.137 J	0.0134	5.00	ng/kg	102		78-138		
OCDF	0.420 J	0.0221	10.0	ng/kg	102		63-170		
Batch number: 11160001	Sample number(s): 6293495								
2378-TCDD	0.0138 U	0.0138	1.00	ng/kg	82		67-158		
12378-PeCDD	0.0141 J	0.0130	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0355 J	0.0144	5.00	ng/kg	87		70-164		
123678-HxCDD	0.0363 J	0.0150	5.00	ng/kg	87		76-134		
123789-HxCDD	0.0402 J	0.0132	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.233 J	0.0216	5.00	ng/kg	88		70-140		
OCDD	0.463 J	0.0238	10.0	ng/kg	88		78-144		
2378-TCDF	0.0157 J	0.0113	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0432 J	0.00750	5.00	ng/kg	85		80-134		
23478-PeCDF	0.0599 J	0.00810	5.00	ng/kg	85		68-160		
123478-HxCDF	0.0287 J	0.0134	5.00	ng/kg	88		72-134		
123678-HxCDF	0.0252 J	0.0104	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0730 J	0.0130	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0597 J	0.0101	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.124 J	0.00850	5.00	ng/kg	86		82-122		
1234789-HpCDF	0.0756 J	0.0170	5.00	ng/kg	90		78-138		
OCDF	0.300 J	0.0378	10.0	ng/kg	91		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247826
Reported: 06/17/11 at 01:56 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11166001	Sample number(s): 6293493-6293494								
2378-TCDD	0.0160 J	0.0128	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0291 J	0.0148	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0238 J	0.0136	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0351 J	0.0141	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0637 J	0.0137	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.285 J	0.0207	5.00	ng/kg	93		70-140		
OCDD	0.624 J	0.0242	10.0	ng/kg	94		78-144		
2378-TCDF	0.0110 U	0.0110	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0327 J	0.00710	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0458 J	0.00720	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0395 J	0.00910	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0359 J	0.00760	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0521 J	0.0106	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0320 J	0.00850	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0763 J	0.00790	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0700 J	0.0145	5.00	ng/kg	96		78-138		
OCDF	0.257 J	0.0298	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11147162402A	Sample number(s): 6293493-6293494					BKG: P292036			
Moisture Content by 160.3						9.5	8.9	7	20
Batch number: 11153162401A	Sample number(s): 6293485-6293492,6293495					BKG: P293457			
Moisture Content by 160.3						13.3	14.4	8	20
Batch number: 11153002	Sample number(s): 6293485-6293492					UNSPK: 6293487			
2378-TCDD	97	97	67-158	0	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	100	101	70-164	1	25				
123678-HxCDD	103	104	76-134	1	25				
123789-HxCDD	100	101	64-162	1	25				
1234678-HpCDD	78	87	70-140	6	25				
OCDD	-46 (2)	25 (2)	78-144	18	25				
2378-TCDF	104	104	75-158	1	25				
12378-PeCDF	103	104	80-134	1	25				
23478-PeCDF	104	104	68-160	0	25				
123478-HxCDF	103	104	72-134	1	25				
123678-HxCDF	101	101	84-130	1	25				
123789-HxCDF	103	103	78-130	0	25				
234678-HxCDF	103	103	70-156	1	25				
1234678-HpCDF	100	103	82-122	2	25				
1234789-HpCDF	101	104	78-138	3	25				
OCDF	100	102	63-170	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247826
Reported: 06/17/11 at 01:56 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11153002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6293485	80	87	77	77	75	75
6293486	80	86	70	74	75	79
6293487	81	84	72	75	76	75
6293488	78	79	62	70	77	78
6293489	81	82	76	78	77	85
6293490	79	81	77	76	74	74
6293491	76	78	71	73	72	71
6293492	94	96	77	82	90	92
Blank	69	75	68	79	78	71
MS	78	79	62	70	77	78
MSD	81	82	76	78	77	85
OPR	67	73	56	66	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6293485	78	73	65	92	88	76
6293486	77	71	63	92	88	75
6293487	75	72	65	92	84	75
6293488	75	74	67	89	79	77
6293489	81	75	66	90	83	78
6293490	72	70	62	90	80	73
6293491	64	62	49	86	78	73
6293492	80	82	70	109	97	89
Blank	105	69	64	95	80	81
MS	75	74	67	89	79	77
MSD	81	75	66	90	83	78
OPR	88	66	61	88	77	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6293485	75	76	75	70	79	86
6293486	75	75	74	68	78	88
6293487	74	75	74	69	81	85
6293488	76	78	76	72	79	81
6293489	77	79	78	71	79	84
6293490	72	74	71	64	80	83
6293491	69	71	64	49	77	76
6293492	87	90	82	72	94	94
Blank	83	82	86	88	66	82
MS	76	78	76	72	79	81
MSD	77	79	78	71	79	84
OPR	75	75	79	80	64	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247826
Reported: 06/17/11 at 01:56 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11160001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6293495	79	64	49	56	70	66
Blank	77	59	53	65	68	61
OPR	65	50	26	35	56	40
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6293495	61	61	52	87	72	75
Blank	83	51	43	96	76	82
OPR	55	38	31	91	67	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6293495	75	78	74	63	71	68
Blank	81	87	82	72	62	70
OPR	71	76	70	62	50	61
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11166001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6293493	73	67	69	68	71	72
6293494	78	72	72	71	73	77
Blank	69	61	63	74	66	59
OPR	69	60	61	71	64	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6293493	71	73	68	88	73	76
6293494	71	73	64	184	78	80
Blank	90	59	56	87	74	79
OPR	91	59	55	89	74	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6293493	73	77	77	73	67	65
6293494	75	80	78	69	71	71
Blank	78	80	81	78	56	67
OPR	75	79	81	80	56	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1247826
Reported: 06/17/11 at 01:56 PM

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1247826 Sample# 6293485-95

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex. Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										
SL-030-SA5DN-SS-0.0-0.5	5/19/11	1510	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-030-SA5DN-SS-0.0-0.5	5/19/11	1510	SOIL	NONE	1-SS sleeve			X	X																	
SL-031-SA5DN-SS-0.0-0.5	5/19/11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-031-SA5DN-SS-0.0-0.5	5/19/11	1440	SOIL	NONE	1-SS sleeve			X	X																	
SL-032-SA5DN-SS-0.0-0.5	5/19/11	1253	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-032-SA5DN-SS-0.0-0.5	5/19/11	1253	SOIL	NONE	1-SS sleeve			X	X																	
SL-033-SA5DN-SS-0.0-0.5	5/19/11	1320	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-033-SA5DN-SS-0.0-0.5	5/19/11	1320	SOIL	NONE	1-SS sleeve			X	X																	
SL-034-SA5DN-SS-0.0-0.5	5/19/11	1414	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-034-SA5DN-SS-0.0-0.5	5/19/11	1414	SOIL	NONE	1-SS sleeve			X	X																	
SL-035-SA5DN-SS-0.0-0.5	5/19/11	1350	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-035-SA5DN-SS-0.0-0.5	5/19/11	1350	SOIL	NONE	1-SS sleeve			X	X																	
SL-041-SA5DN-SS-0.0-0.5	5/19/11	1028	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-041-SA5DN-SS-0.0-0.5	5/19/11	1028	SOIL	NONE	1-SS sleeve			X	X																	
SL-042-SA5DN-SS-0.0-0.5	5/19/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-042-SA5DN-SS-0.0-0.5	5/19/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-043-SA5DN-SS-0.0-0.5MS	5/19/11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-043-SA5DN-SS-0.0-0.5MS	5/19/11	0930	SOIL	NONE	1-SS sleeve			X	X																	MS/MSD sample
SL-045-SA5DN-SS-0.0-0.5	5/19/11	1050	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SS-0.0-0.5	5/19/11	1050	SOIL	NONE	1-SS sleeve			X	X																	
SL-046-SA5DN-SS-0.0-0.5	5/19/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SS-0.0-0.5	5/19/11	0915	SOIL	NONE	1-SS sleeve			X	X																	
SL-047-SA5DN-SS-0.0-0.5	5/19/11	0830	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SS-0.0-0.5	5/19/11	0830	SOIL	NONE	1-SS sleeve			X	X																	
SL-048-SA5DN-SS-0.0-0.5	5/19/11	0850	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-048-SA5DN-SS-0.0-0.5	5/19/11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-049-SA5DN-SS-0.0-0.5	5/19/11	1110	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-049-SA5DN-SS-0.0-0.5	5/19/11	1110	SOIL	NONE	1-SS sleeve			X	X																	
DUP-04-SA5DN-QC-051911	5/19/11	0940	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP-04-SA5DN-QC-051911	5/19/11	0940	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/19/2011 / 1700	LD 5/20/11 920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill Nos.)	
		8695 1441 7870; 8695 1441 7880 8695 1441 7891; 8695 1441 7906 8695 1441 7917	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/21/2011
Group Number: 1248037
SDG: DE158
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-020-SA5DN-SS-0.0-0.5 Soil	6294833
SL-024-SA5DN-SS-0.0-0.5 Soil	6294834
SL-025-SA5DN-SS-0.0-0.5 Soil	6294835
SL-026-SA5DN-SS-0.0-0.5 Soil	6294836
SL-027-SA5DN-SS-0.0-0.5 Soil	6294837
SL-028-SA5DN-SS-0.0-0.5 Soil	6294838
SL-029-SA5DN-SS-0.0-0.5 Soil	6294839
SL-036-SA5DN-SS-0.0-0.5 Soil	6294840
SL-037-SA5DN-SS-0.0-0.5 Soil	6294841
SL-038-SA5DN-SS-0.0-0.5 Soil	6294842
SL-039-SA5DN-SS-0.0-0.5 Soil	6294843
SL-040-SA5DN-SS-0.0-0.5 Soil	6294844
SL-044-SA5DN-SS-0.0-0.5 Soil	6294845
SL-050-SA5DN-SS-0.0-0.5 Soil	6294846
SL-051-SA5DN-SS-0.0-0.5 Soil	6294847
SL-064-SA5DN-SB-4.0-5.0 Soil	6294848
SL-065-SA5DN-SB-4.0-5.0 Soil	6294849
SL-065-SA5DN-SB-7.0-8.0 Soil	6294850
SL-086-SA5DN-SB-4.0-5.0 Soil	6294851
SL-088-SA5DN-SB-4.0-5.0 Soil	6294852
TB-052011 Water	6294853

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294833
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15801 SDG#: DE158-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	99.2		17.6	35.2		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294833
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15801 SDG#: DE158-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	2.7	J	1.7	8.7		5
10138	Benzo(a)anthracene	56-55-3	34		3.5	8.7		5
10138	Benzo(a)pyrene	50-32-8	43		3.5	8.7		5
10138	Benzo(b)fluoranthene	205-99-2	70		3.5	8.7		5
10138	Benzo(g,h,i)perylene	191-24-2	22		3.5	8.7		5
10138	Benzo(k)fluoranthene	207-08-9	28		3.5	8.7		5
10138	Chrysene	218-01-9	47		1.7	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	5.6	J	3.5	8.7		5
10138	Fluoranthene	206-44-0	72		3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	17		3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
10138	Phenanthrene	85-01-8	24		3.5	8.7		5
10138	Pyrene	129-00-0	75		3.5	8.7		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294833
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15801 SDG#: DE158-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070	U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070	U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.60	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294833
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

15801 SDG#: DE158-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	5.8	J	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	30		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	190		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.33	21.2		1
07914	Boron	7440-42-8	11.5		0.943	5.30		1
01650	Calcium	7440-70-2	5,770		6.49	21.2		1
01654	Iron	7439-89-6	22,400		4.99	21.2		1
01656	Lithium	7439-93-2	13.9		0.23	2.1		1
01657	Magnesium	7439-95-4	5,580		2.69	10.6		1
06958	Manganese	7439-96-5	342		0.0826	0.530		1
10145	Phosphorus	7723-14-0	703		0.593	10.6		1
01662	Potassium	7440-09-7	3,610		19.1	53.0		1
01667	Sodium	7440-23-5	137		39.5	106		1
07968	Strontium	7440-24-6	33.2		0.0657	0.530		1
06969	Tin	7440-31-5	2.33	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,300		0.387	1.02		1
10146	Zirconium	7440-67-7	1.02	J	0.890	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276		0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.13		0.0839	0.420		2
06126	Barium	7440-39-3	151		0.283	1.05		5
06127	Beryllium	7440-41-7	0.644		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.245		0.0420	0.105		2

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SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294833
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

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Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15801 SDG#: DE158-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	27.2	0.126	0.420		2
06132	Cobalt	7440-48-4	11.9	0.0210	0.105		2
06133	Copper	7440-50-8	19.4	0.0692	0.420		2
06135	Lead	7439-92-1	12.5	0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.591	0.0524	0.105		2
06139	Nickel	7440-02-0	19.2	0.105	0.420		2
06141	Selenium	7782-49-2	0.110 J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0532 J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.364	0.0315	0.105		2
06148	Vanadium	7440-62-2	71.1	0.0231	0.105		2
06149	Zinc	7440-66-6	103	0.587	3.15		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0127 J	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6	0.85	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56 J	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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15801 SDG#: DE158-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/04/2011 18:42	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 02:55	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	05/31/2011 13:42	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 10:49	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 04:55	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/25/2011 20:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 18:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 18:45	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 03:17	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 22:06	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 19:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 14:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 15:39	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294833
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15801 SDG#: DE158-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 10:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 08:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 15:38	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 09:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 09:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 09:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 10:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 10:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 11:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11146243201A	05/27/2011 13:20	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	58.9		19.3	38.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1

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Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.6		5
10138	Benzo(a)pyrene	50-32-8	3.8	U	3.8	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	3.8	U	3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.6		5
10138	Chrysene	218-01-9	1.9	U	1.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6		5
10138	Fluoranthene	206-44-0	3.8	U	3.8	9.6		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.6		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.6		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6		5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.6		5
10138	Pyrene	129-00-0	3.8	U	3.8	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1

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Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	15		0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.28	J	0.076	0.39		1
01363	p,p-DDT	50-29-3	1.8		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.26	J	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.082	J	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.19	J	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.91	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	4.4	J	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	38		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	99		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400		5.78	23.0		1
07914	Boron	7440-42-8	16.8		1.02	5.74		1
01650	Calcium	7440-70-2	11,900		7.04	23.0		1
01654	Iron	7439-89-6	30,200		5.41	23.0		1
01656	Lithium	7439-93-2	21.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,460		2.92	11.5		1
06958	Manganese	7439-96-5	399		0.0896	0.574		1
10145	Phosphorus	7723-14-0	353		0.643	11.5		1
01662	Potassium	7440-09-7	3,840		20.7	57.4		1
01667	Sodium	7440-23-5	81.4	J	42.8	115		1
07968	Strontium	7440-24-6	37.5		0.0712	0.574		1
06969	Tin	7440-31-5	2.74	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,350		0.424	1.12		1
10146	Zirconium	7440-67-7	3.30	J	0.965	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.393		0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.93		0.0892	0.446		2
06126	Barium	7440-39-3	195		0.120	0.446		2
06127	Beryllium	7440-41-7	0.993		0.0178	0.112		2
06128	Cadmium	7440-43-9	0.473		0.0446	0.112		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	42.7	0.134	0.446		2
06132	Cobalt	7440-48-4	13.8	0.0223	0.112		2
06133	Copper	7440-50-8	18.9	0.0736	0.446		2
06135	Lead	7439-92-1	15.2	0.0116	0.223		2
06138	Molybdenum	7439-98-7	1.09	0.0558	0.112		2
06139	Nickel	7440-02-0	30.9	0.112	0.446		2
06141	Selenium	7782-49-2	0.156 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0704 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.469	0.0335	0.112		2
06148	Vanadium	7440-62-2	78.1	0.0245	0.112		2
06149	Zinc	7440-66-6	105	0.625	3.35		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0275 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7 J	0.93	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 18:54	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 12:51	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	05/31/2011 15:17	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 11:31	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 05:24	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/25/2011 21:07	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 19:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 19:41	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 05:21	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 22:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 19:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 16:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 15:53	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294834
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15802 SDG#: DE158-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 10:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 08:36	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 10:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 10:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 10:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 13:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 14:23	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15803 SDG#: DE158-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	24.5	J	19.3	38.6		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1

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Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15803 SDG#: DE158-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.2		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.4		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	1.6	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	1.7	J	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	1.5	J	0.78	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1

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Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15803 SDG#: DE158-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	310		89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
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15803 SDG#: DE158-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.8		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.55		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.11	J	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	5.1		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.0		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15803 SDG#: DE158-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	4.3		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	18		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	23		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,400		5.82	23.1		1
07914	Boron	7440-42-8	17.3		1.03	5.78		1
01650	Calcium	7440-70-2	11,100		7.09	23.1		1
01654	Iron	7439-89-6	32,200		27.2	116		5
01656	Lithium	7439-93-2	23.5		0.25	2.3		1
01657	Magnesium	7439-95-4	7,080		2.94	11.6		1
06958	Manganese	7439-96-5	351		0.0902	0.578		1
10145	Phosphorus	7723-14-0	302		0.648	11.6		1
01662	Potassium	7440-09-7	3,830		20.8	57.8		1
01667	Sodium	7440-23-5	123		43.1	116		1
07968	Strontium	7440-24-6	44.4		0.0717	0.578		1
06969	Tin	7440-31-5	3.04	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,340		0.435	1.15		1
10146	Zirconium	7440-67-7	3.23	J	0.972	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.362		0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.10		0.0907	0.454		2
06126	Barium	7440-39-3	155		0.306	1.13		5
06127	Beryllium	7440-41-7	1.19		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.422		0.0454	0.113		2

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Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15803 SDG#: DE158-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	46.7	0.136	0.454		2
06132	Cobalt	7440-48-4	15.2	0.0227	0.113		2
06133	Copper	7440-50-8	19.1	0.0749	0.454		2
06135	Lead	7439-92-1	15.9	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.600	0.0567	0.113		2
06139	Nickel	7440-02-0	33.1	0.113	0.454		2
06141	Selenium	7782-49-2	0.173 J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0749 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.528	0.0340	0.113		2
06148	Vanadium	7440-62-2	88.8	0.0250	0.113		2
06149	Zinc	7440-66-6	108	0.635	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0055 J	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1 J	0.93	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.69	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-025-SA5DN-SS-0.0-0.5

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15803 SDG#: DE158-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/04/2011 19:42	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 04:41	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	05/31/2011 15:49	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 12:13	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 05:33	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/25/2011 21:34	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:32	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 19:57	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 19:59	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 02:02	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 22:36	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 20:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 10:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 08:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 08:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 15:57	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 16:01	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 08:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 15:57	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 08:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 08:48	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15803 SDG#: DE158-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 15:57	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 15:57	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 08:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 15:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 10:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 08:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 15:47	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 10:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 10:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 13:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 14:35	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-025-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294835
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15803 SDG#: DE158-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	24.9	J	19.2	38.4		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.7		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	5.6		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	2.7		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	58		6.9	21		1
10138	Fluoranthene	206-44-0	3.0		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.95	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.2	J	0.76	1.9		1
10138	Pyrene	129-00-0	2.4		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	1.9		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	87	U	87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.6	U	1.6	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.089	U	0.089	0.39		1
01363	p,p-DDT	50-29-3	1.0		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.24	U	0.24	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.24	U	0.24	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	8.4		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	6.0		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	4.3	J	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	27		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	85		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.73	22.8		1
07914	Boron	7440-42-8	15.6		1.01	5.70		1
01650	Calcium	7440-70-2	7,390		6.98	22.8		1
01654	Iron	7439-89-6	31,700		26.8	114		5
01656	Lithium	7439-93-2	20.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,570		2.89	11.4		1
06958	Manganese	7439-96-5	433		0.0889	0.570		1
10145	Phosphorus	7723-14-0	313		0.638	11.4		1
01662	Potassium	7440-09-7	4,060		20.5	57.0		1
01667	Sodium	7440-23-5	118		42.5	114		1
07968	Strontium	7440-24-6	42.1		0.0706	0.570		1
06969	Tin	7440-31-5	2.99	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,260		0.433	1.14		1
10146	Zirconium	7440-67-7	2.81	J	0.957	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.347		0.0684	0.228		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	7.98	0.0911	0.456		2
06126	Barium	7440-39-3	168	0.308	1.14		5
06127	Beryllium	7440-41-7	1.11	0.0182	0.114		2
06128	Cadmium	7440-43-9	0.755	0.0456	0.114		2
06131	Chromium	7440-47-3	44.9	0.137	0.456		2
06132	Cobalt	7440-48-4	18.0	0.0228	0.114		2
06133	Copper	7440-50-8	19.3	0.0752	0.456		2
06135	Lead	7439-92-1	16.1	0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.688	0.0570	0.114		2
06139	Nickel	7440-02-0	36.4	0.114	0.456		2
06141	Selenium	7782-49-2	0.238 J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0617 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.517	0.0342	0.114		2
06148	Vanadium	7440-62-2	85.0	0.0251	0.114		2
06149	Zinc	7440-66-6	110	0.638	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.92 U	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.75	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/04/2011 19:59	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 06:56	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	05/31/2011 16:21	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 12:56	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 05:43	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/25/2011 22:02	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 20:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 20:17	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 05:46	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 22:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 20:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 13:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 08:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 08:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 16:04	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 16:08	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 08:52	Joanne M Gates	1

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Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 16:04	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 08:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 08:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 16:04	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 16:04	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 08:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 16:04	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 08:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 15:49	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 11:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 11:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 14:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 14:57	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294836
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15804 SDG#: DE158-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15805 SDG#: DE158-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	63.0		19.2	38.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1

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Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15805 SDG#: DE158-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.58	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	9.6		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	12		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	17		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.1		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	7.9		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	10		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	8.2		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.9		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.86	J	0.77	1.9		1
10138	Pyrene	129-00-0	10		0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1

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Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15805 SDG#: DE158-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
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Project Name: SSFL Area IV Collocated Soil Sampling

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15805 SDG#: DE158-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.5	J	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.39		1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.39		1
01363	p,p-DDT	50-29-3	1.2		0.077	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.39		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.091	U	0.091	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	6.2		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

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Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15805 SDG#: DE158-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	5.2	J	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	29		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	140		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.69	22.6		1
07914	Boron	7440-42-8	15.3		1.01	5.66		1
01650	Calcium	7440-70-2	15,400		6.94	22.6		1
01654	Iron	7439-89-6	29,200		5.33	22.6		1
01656	Lithium	7439-93-2	21.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,320		2.87	11.3		1
06958	Manganese	7439-96-5	378		0.0883	0.566		1
10145	Phosphorus	7723-14-0	357		0.634	11.3		1
01662	Potassium	7440-09-7	3,800		20.4	56.6		1
01667	Sodium	7440-23-5	120		42.2	113		1
07968	Strontium	7440-24-6	46.6		0.0702	0.566		1
06969	Tin	7440-31-5	2.90	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,220		0.439	1.15		1
10146	Zirconium	7440-67-7	2.99	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.392		0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.15		0.0914	0.457		2
06126	Barium	7440-39-3	146		0.309	1.14		5
06127	Beryllium	7440-41-7	1.13		0.0183	0.114		2

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Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

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Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15805 SDG#: DE158-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.476		0.0457	0.114		2
06131	Chromium	7440-47-3	43.7		0.137	0.457		2
06132	Cobalt	7440-48-4	14.0		0.0229	0.114		2
06133	Copper	7440-50-8	19.4		0.0754	0.457		2
06135	Lead	7439-92-1	16.5		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.710		0.0571	0.114		2
06139	Nickel	7440-02-0	33.7		0.114	0.457		2
06141	Selenium	7782-49-2	0.145	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0757	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.485		0.0343	0.114		2
06148	Vanadium	7440-62-2	85.1		0.0251	0.114		2
06149	Zinc	7440-66-6	120		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0263	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15805 SDG#: DE158-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/04/2011 20:15	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 05:07	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	05/31/2011 16:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 13:38	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 05:52	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/25/2011 22:30	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 20:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 20:36	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 06:11	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 23:06	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 21:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 17:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 16:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 16:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 16:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 16:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 16:19	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294837
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15805 SDG#: DE158-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:04	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 08:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 15:51	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 11:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 11:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 14:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11146243201A	05/27/2011 15:03	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	63.9		19.3	38.5		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.98	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.1		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	3.8		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	3.0		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.1	J	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	2.3		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.98	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.2	J	0.77	1.9		1
10138	Pyrene	129-00-0	2.3		0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.0	U	1.0	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.80		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.10	U	0.10	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.27	U	0.27	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.3		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	4.5	J	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	39		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	130		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,200		5.77	22.9		1
07914	Boron	7440-42-8	16.8		1.02	5.74		1
01650	Calcium	7440-70-2	13,800		7.03	22.9		1
01654	Iron	7439-89-6	31,200		27.0	115		5
01656	Lithium	7439-93-2	23.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,490		2.91	11.5		1
06958	Manganese	7439-96-5	462		0.0895	0.574		1
10145	Phosphorus	7723-14-0	353		0.642	11.5		1
01662	Potassium	7440-09-7	3,780		20.7	57.4		1
01667	Sodium	7440-23-5	124		42.8	115		1
07968	Strontium	7440-24-6	43.9		0.0711	0.574		1
06969	Tin	7440-31-5	3.02	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,210		0.427	1.12		1
10146	Zirconium	7440-67-7	3.46	J	0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.417		0.0695	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.4		0.0927	0.463		2
06126	Barium	7440-39-3	152		0.313	1.16		5
06127	Beryllium	7440-41-7	1.20		0.0185	0.116		2

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Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.435	0.0463	0.116		2
06131	Chromium	7440-47-3	46.4	0.139	0.463		2
06132	Cobalt	7440-48-4	14.7	0.0232	0.116		2
06133	Copper	7440-50-8	19.1	0.0765	0.463		2
06135	Lead	7439-92-1	19.9	0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.810	0.0579	0.116		2
06139	Nickel	7440-02-0	32.4	0.116	0.463		2
06141	Selenium	7782-49-2	0.146 J	0.0463	0.463		2
06142	Silver	7440-22-4	0.0668 J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.517	0.0348	0.116		2
06148	Vanadium	7440-62-2	91.1	0.0255	0.116		2
06149	Zinc	7440-66-6	137	0.649	3.48		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94 J	0.93	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.14	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/04/2011 20:31	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 05:33	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/01/2011 06:55	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 14:21	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 06:02	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/25/2011 23:52	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 22:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 20:55	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 06:36	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 23:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 21:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 17:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:00	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 16:22	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 16:26	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:00	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 16:22	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:00	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:00	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 16:22	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 16:22	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:00	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 16:22	Eric L Eby	1

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Analysis Report

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294838
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15806 SDG#: DE158-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:08	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:00	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 15:53	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 11:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 11:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 14:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 15:20	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294839
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:00

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15807 SDG#: DE158-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	68.3		19.1	38.2		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	9.7	J	6.9	21		1
10138	Chrysene	218-01-9	0.49	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	9.6	J	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1

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Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	2.8	J	0.27	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.32	U	0.32	0.39		1
01363	p,p-DDT	50-29-3	1.4		0.076	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.20	U	0.20	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.064	U	0.064	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.32	U	0.32	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.6		2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9		2
10225	PCB-1221	11104-28-2	0.76	U	0.76	3.9		2
10225	PCB-1232	11141-16-5	0.76	U	0.76	3.9		2
10225	PCB-1242	53469-21-9	0.76	U	0.76	3.9		2
10225	PCB-1248	12672-29-6	0.76	U	0.76	3.9		2
10225	PCB-1254	11097-69-1	0.76	U	0.76	3.9		2
10225	PCB-1260	11096-82-5	4.0		0.90	3.9		2
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9		2
10225	PCB-1268	11100-14-4	0.76	U	0.76	3.9		2
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	5.9	J	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	37		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	140		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.67	22.6		1
07914	Boron	7440-42-8	17.2		1.00	5.64		1
01650	Calcium	7440-70-2	13,900		6.91	22.6		1
01654	Iron	7439-89-6	31,700		26.6	113		5
01656	Lithium	7439-93-2	23.3		0.25	2.3		1
01657	Magnesium	7439-95-4	6,560		2.86	11.3		1
06958	Manganese	7439-96-5	415		0.0880	0.564		1
10145	Phosphorus	7723-14-0	350		0.631	11.3		1
01662	Potassium	7440-09-7	3,690		20.3	56.4		1
01667	Sodium	7440-23-5	108	J	42.1	113		1
07968	Strontium	7440-24-6	43.3		0.0699	0.564		1
06969	Tin	7440-31-5	3.21	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,250		0.441	1.16		1
10146	Zirconium	7440-67-7	3.59	J	0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.403		0.0683	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.33		0.0911	0.455		2
06126	Barium	7440-39-3	141		0.307	1.14		5
06127	Beryllium	7440-41-7	1.10		0.0182	0.114		2

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Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.423	0.0455	0.114		2
06131	Chromium	7440-47-3	44.3	0.137	0.455		2
06132	Cobalt	7440-48-4	17.2	0.0228	0.114		2
06133	Copper	7440-50-8	19.0	0.0752	0.455		2
06135	Lead	7439-92-1	17.4	0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.664	0.0569	0.114		2
06139	Nickel	7440-02-0	32.1	0.114	0.455		2
06141	Selenium	7782-49-2	0.147 J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0640 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.481	0.0342	0.114		2
06148	Vanadium	7440-62-2	84.9	0.0251	0.114		2
06149	Zinc	7440-66-6	113	0.638	3.42		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1 J	0.93	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-029-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294839
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:00

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15807 SDG#: DE158-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/04/2011 20:48	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 06:00	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/01/2011 07:27	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 16:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 06:11	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 00:20	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 23:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 21:13	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 07:01	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 23:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 21:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 18:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:05	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:05	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 16:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 16:33	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:05	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 16:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:05	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:05	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 16:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 16:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:05	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 16:30	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-029-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294839
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:00

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15807 SDG#: DE158-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:05	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 15:54	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 12:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 12:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 15:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 15:32	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15808 SDG#: DE158-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	52.0		18.9	37.9		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15808 SDG#: DE158-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.4		5
10138	Benzo(a)pyrene	50-32-8	4.1	J	3.8	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	8.3	J	3.8	9.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.4		5
10138	Di-n-butylphthalate	84-74-2	71	J	34	100		5
10138	Chrysene	218-01-9	3.3	J	1.9	9.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.4		5
10138	Fluoranthene	206-44-0	3.8	U	3.8	9.4		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.4		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.4		5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.4		5
10138	Pyrene	129-00-0	3.8	U	3.8	9.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15808 SDG#: DE158-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	1.5	J	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1

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Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15808 SDG#: DE158-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.10	U	0.10	0.39		1
01363	p,p-DDT	50-29-3	0.95		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.7	U	5.7	19		5
10225	Aroclor 5442	12642-23-8	5.7	U	5.7	19		5
10225	Aroclor 5460	11126-42-4	9.5	J	5.7	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.6		5
10225	PCB-1260	11096-82-5	21		2.2	9.6		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6		5

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Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15808 SDG#: DE158-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.91	U	0.91	2.7		2
10199	EFH (C15-C20)	n.a.	4.6		0.91	2.7		2
10199	EFH (C21-C30)	n.a.	21		0.91	2.7		2
10199	EFH (C30 - C40)	n.a.	68		0.91	2.7		2
10199	EFH (C8-C11)	n.a.	0.91	U	0.91	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.57	22.1		1
07914	Boron	7440-42-8	16.7		0.985	5.54		1
01650	Calcium	7440-70-2	9,270		6.79	22.1		1
01654	Iron	7439-89-6	33,000		26.1	111		5
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	6,930		2.81	11.1		1
06958	Manganese	7439-96-5	359		0.0863	0.554		1
10145	Phosphorus	7723-14-0	303		0.620	11.1		1
01662	Potassium	7440-09-7	3,700		19.9	55.4		1
01667	Sodium	7440-23-5	108	J	41.3	111		1
07968	Strontium	7440-24-6	42.9		0.0686	0.554		1
06969	Tin	7440-31-5	3.16	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,300		0.425	1.12		1
10146	Zirconium	7440-67-7	3.17	J	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.445		0.0664	0.221		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15808 SDG#: DE158-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	11.0		0.0886	0.443		2
06126	Barium	7440-39-3	161		0.299	1.11		5
06127	Beryllium	7440-41-7	1.27		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.559		0.0443	0.111		2
06131	Chromium	7440-47-3	55.3		0.133	0.443		2
06132	Cobalt	7440-48-4	18.8		0.0221	0.111		2
06133	Copper	7440-50-8	23.2		0.0731	0.443		2
06135	Lead	7439-92-1	21.0		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.827		0.0554	0.111		2
06139	Nickel	7440-02-0	40.7		0.111	0.443		2
06141	Selenium	7782-49-2	0.165	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.119		0.0133	0.111		2
06145	Thallium	7440-28-0	0.625		0.0332	0.111		2
06148	Vanadium	7440-62-2	100		0.0244	0.111		2
06149	Zinc	7440-66-6	131		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0235	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.91	U	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.94	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15808 SDG#: DE158-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/04/2011 21:04	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 06:26	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/01/2011 07:59	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 17:10	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 06:21	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 00:47	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 23:36	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 21:32	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 07:25	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/24/2011 23:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 21:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 11:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:09	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:09	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 16:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 16:41	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:09	Joanne M Gates	1

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Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

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CDM Federal Programs Corp.
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15808 SDG#: DE158-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 16:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:09	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 16:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 16:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:09	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 16:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:17	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 16:00	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 12:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 12:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 15:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 15:43	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294840
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15808 SDG#: DE158-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	50.4		19.0	38.1		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzo(a)pyrene	50-32-8	22	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	23	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	26	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Fluoranthene	206-44-0	24	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1

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Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	29	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	5.2	J	3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	7.1	J	3.8	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	91	J	35	100		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.6		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.6		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6		5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.5	U	1.5	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	3.6		0.71	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	440		88	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1

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Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.8	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.39		1
01363	p,p-DDT	50-29-3	1.4		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.21	U	0.21	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.22	U	0.22	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	4.3		1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	29		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.9		5
10199	EFH (C15-C20)	n.a.	6.1	J	2.3	6.9		5
10199	EFH (C21-C30)	n.a.	41		2.3	6.9		5
10199	EFH (C30 - C40)	n.a.	150		2.3	6.9		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.9		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		5.58	22.2		1
07914	Boron	7440-42-8	15.6		0.987	5.55		1
01650	Calcium	7440-70-2	14,900		6.80	22.2		1
01654	Iron	7439-89-6	31,000		26.1	111		5
01656	Lithium	7439-93-2	20.7		0.24	2.2		1
01657	Magnesium	7439-95-4	6,290		2.82	11.1		1
06958	Manganese	7439-96-5	415		0.0865	0.555		1
10145	Phosphorus	7723-14-0	324		0.621	11.1		1
01662	Potassium	7440-09-7	3,860		20.0	55.5		1
01667	Sodium	7440-23-5	99.1	J	41.4	111		1
07968	Strontium	7440-24-6	37.9		0.0688	0.555		1
06969	Tin	7440-31-5	2.93	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,260		0.434	1.14		1
10146	Zirconium	7440-67-7	2.81	J	0.932	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.359		0.0685	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.97		0.0914	0.457		2
06126	Barium	7440-39-3	180		0.123	0.457		2
06127	Beryllium	7440-41-7	0.975		0.0183	0.114		2

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Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.410		0.0457	0.114		2
06131	Chromium	7440-47-3	39.0		0.137	0.457		2
06132	Cobalt	7440-48-4	11.6		0.0228	0.114		2
06133	Copper	7440-50-8	16.6		0.0754	0.457		2
06135	Lead	7439-92-1	14.0		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.595		0.0571	0.114		2
06139	Nickel	7440-02-0	24.3		0.114	0.457		2
06141	Selenium	7782-49-2	0.172	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0629	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.420		0.0343	0.114		2
06148	Vanadium	7440-62-2	74.8		0.0251	0.114		2
06149	Zinc	7440-66-6	98.3		0.640	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0065	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.97	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 13:59	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 06:52	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/01/2011 08:31	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 17:53	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 06:40	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 01:15	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/02/2011 23:49	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 21:50	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 07:50	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 00:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 22:08	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 19:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:13	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:13	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 16:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 16:48	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 16:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 16:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 16:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 16:44	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294841
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15809 SDG#: DE158-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 10:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 12:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 12:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 15:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 15:55	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402A	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-038-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294842
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15810 SDG#: DE158-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	64.1		19.3	38.6		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-038-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294842
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15810 SDG#: DE158-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.85	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	12		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	17		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	25		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	4.9		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	11		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	8.1	J	6.9	21		1
10138	Chrysene	218-01-9	16		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	130		6.9	21		1
10138	Fluoranthene	206-44-0	19		0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.3		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	19	J	6.9	21		1
10138	Phenanthrene	85-01-8	5.4		0.77	1.9		1
10138	Pyrene	129-00-0	18		0.77	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1

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Sample Description: SL-038-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294842
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15810 SDG#: DE158-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.4	U	1.4	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294842
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15810 SDG#: DE158-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.33		0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	4.4		0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.88		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.22	U	0.22	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	5.9		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	5.8		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294842
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
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15810 SDG#: DE158-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.93	U	0.93	2.8		2
10199	EFH (C15-C20)	n.a.	5.0		0.93	2.8		2
10199	EFH (C21-C30)	n.a.	27		0.93	2.8		2
10199	EFH (C30 - C40)	n.a.	88		0.93	2.8		2
10199	EFH (C8-C11)	n.a.	0.93	U	0.93	2.8		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,800		5.71	22.7		1
07914	Boron	7440-42-8	17.6		1.01	5.68		1
01650	Calcium	7440-70-2	10,500		6.96	22.7		1
01654	Iron	7439-89-6	31,400		26.7	114		5
01656	Lithium	7439-93-2	22.7		0.25	2.3		1
01657	Magnesium	7439-95-4	6,500		2.88	11.4		1
06958	Manganese	7439-96-5	397		0.0886	0.568		1
10145	Phosphorus	7723-14-0	333		0.636	11.4		1
01662	Potassium	7440-09-7	3,880		20.4	56.8		1
01667	Sodium	7440-23-5	110	J	42.4	114		1
07968	Strontium	7440-24-6	42.2		0.0704	0.568		1
06969	Tin	7440-31-5	2.98	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,160		0.436	1.15		1
10146	Zirconium	7440-67-7	3.25	J	0.954	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.399		0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.59		0.0908	0.454		2
06126	Barium	7440-39-3	150		0.307	1.14		5
06127	Beryllium	7440-41-7	1.10		0.0182	0.114		2

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Sample Description: SL-038-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294842
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15810 SDG#: DE158-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.427	0.0454	0.114		2
06131	Chromium	7440-47-3	44.8	0.136	0.454		2
06132	Cobalt	7440-48-4	14.3	0.0227	0.114		2
06133	Copper	7440-50-8	22.9	0.0749	0.454		2
06135	Lead	7439-92-1	16.4	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.709	0.0568	0.114		2
06139	Nickel	7440-02-0	30.6	0.114	0.454		2
06141	Selenium	7782-49-2	0.177 J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0697 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.508	0.0341	0.114		2
06148	Vanadium	7440-62-2	84.9	0.0250	0.114		2
06149	Zinc	7440-66-6	113	0.636	3.41		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0095 J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0 J	0.94	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.85 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.05	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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15810 SDG#: DE158-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 14:10	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 07:19	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/01/2011 09:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 20:00	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 06:50	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 01:43	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011 00:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 22:09	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 08:15	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 00:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 22:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 20:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:17	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:17	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:02	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 16:51	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:02	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:02	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:02	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:02	Eric L Eby	1

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SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294842
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15810 SDG#: DE158-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 16:01	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203A	05/31/2011 13:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203A	05/31/2011 13:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202A	06/04/2011 16:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 16:06	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202A	05/27/2011 20:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203A	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202A	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202A	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15811 SDG#: DE158-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	51.8		19.5	39.1		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	35	J	19	190		1
04688	Aniline	62-53-3	190	U	190	580		1
04688	Anthracene	120-12-7	48	J	19	190		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	190	J	19	190		1
04688	Benzo(a)pyrene	50-32-8	140	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	150	J	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	75	J	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	72	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	27	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	200		19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	54	J	19	390		1
04688	Fluoranthene	206-44-0	390		19	190		1
04688	Fluorene	86-73-7	21	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1

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Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15811 SDG#: DE158-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	89	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	290		19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	430		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Dibenz(a,h)anthracene	53-70-3	2.4		0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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15811 SDG#: DE158-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.2	J	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	2.1	U	2.1	2.1		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	150	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

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15811 SDG#: DE158-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.9	U	2.9	5.9		1
	Due to interfering peaks on the chromatogram, the value reported represents the lowest reporting limit attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	1.3	J	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.10	U	0.10	0.40		1
01363	p,p-DDT	50-29-3	0.86		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.16	U	0.16	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.3	J	0.46	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
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15811 SDG#: DE158-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	8.7		2.3	7.0		5
10199	EFH (C21-C30)	n.a.	29		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	170		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,400		5.73	22.8		1
07914	Boron	7440-42-8	17.9		1.01	5.69		1
01650	Calcium	7440-70-2	9,210		6.98	22.8		1
01654	Iron	7439-89-6	31,900		26.8	114		5
01656	Lithium	7439-93-2	23.5		0.25	2.3		1
01657	Magnesium	7439-95-4	6,660		2.89	11.4		1
06958	Manganese	7439-96-5	375		0.0888	0.569		1
10145	Phosphorus	7723-14-0	363		0.637	11.4		1
01662	Potassium	7440-09-7	4,240		20.5	56.9		1
01667	Sodium	7440-23-5	97.0	J	42.5	114		1
07968	Strontium	7440-24-6	40.4		0.0706	0.569		1
06969	Tin	7440-31-5	3.09	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,170		0.433	1.14		1
10146	Zirconium	7440-67-7	3.37	J	0.956	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.374		0.0696	0.232		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15811 SDG#: DE158-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.65		0.0929	0.464		2
06126	Barium	7440-39-3	159		0.313	1.16		5
06127	Beryllium	7440-41-7	1.16		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.538		0.0464	0.116		2
06131	Chromium	7440-47-3	45.7		0.139	0.464		2
06132	Cobalt	7440-48-4	15.1		0.0232	0.116		2
06133	Copper	7440-50-8	18.5		0.0766	0.464		2
06135	Lead	7439-92-1	16.9		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.711		0.0580	0.116		2
06139	Nickel	7440-02-0	31.1		0.116	0.464		2
06141	Selenium	7782-49-2	0.170	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0842	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.492		0.0348	0.116		2
06148	Vanadium	7440-62-2	88.0		0.0255	0.116		2
06149	Zinc	7440-66-6	103		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15811 SDG#: DE158-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 14:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 07:45	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/01/2011 09:35	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 20:43	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 06:59	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 02:10	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:45	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011 00:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 22:27	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 08:40	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 01:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 22:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 12:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:21	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15811 SDG#: DE158-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 17:09	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 16:03	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 13:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 13:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 16:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 16:17	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202B	05/27/2011 20:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294843
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15811 SDG#: DE158-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202B	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294844
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15812 SDG#: DE158-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	37.7	J	19.3	38.6		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294844
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15812 SDG#: DE158-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.77	J	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	7.7		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	12		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	19		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	6.1		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	10		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	14		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.9	J	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	25		7.0	21		1
10138	Fluoranthene	206-44-0	14		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.1		0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.82	J	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.91	J	0.78	1.9		1
10138	Naphthalene	91-20-3	1.5	J	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	3.9		0.78	1.9		1
10138	Pyrene	129-00-0	11		0.78	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1

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Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294844
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15812 SDG#: DE158-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.4	J	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	1.8	U	1.8	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	340		88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

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15812 SDG#: DE158-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.11	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.56		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.043	J	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.19	J	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.2		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294844
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15812 SDG#: DE158-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	6.8	J	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	49		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	130		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,000		5.82	23.1		1
07914	Boron	7440-42-8	17.9		1.03	5.78		1
01650	Calcium	7440-70-2	13,200		7.09	23.1		1
01654	Iron	7439-89-6	32,600		27.2	116		5
01656	Lithium	7439-93-2	23.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,640		2.94	11.6		1
06958	Manganese	7439-96-5	468		0.0902	0.578		1
10145	Phosphorus	7723-14-0	339		0.648	11.6		1
01662	Potassium	7440-09-7	3,910		20.8	57.8		1
01667	Sodium	7440-23-5	110	J	43.1	116		1
07968	Strontium	7440-24-6	43.6		0.0717	0.578		1
06969	Tin	7440-31-5	3.06	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,230		0.427	1.12		1
10146	Zirconium	7440-67-7	3.15	J	0.972	5.78		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.310		0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.57		0.0899	0.449		2
06126	Barium	7440-39-3	194		0.121	0.449		2
06127	Beryllium	7440-41-7	0.965		0.0180	0.112		2

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Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294844
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

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15812 SDG#: DE158-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.488	0.0449	0.112		2
06131	Chromium	7440-47-3	38.6	0.135	0.449		2
06132	Cobalt	7440-48-4	13.5	0.0225	0.112		2
06133	Copper	7440-50-8	16.6	0.0741	0.449		2
06135	Lead	7439-92-1	14.7	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.576	0.0562	0.112		2
06139	Nickel	7440-02-0	28.2	0.112	0.449		2
06141	Selenium	7782-49-2	0.154 J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0698 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.444	0.0337	0.112		2
06148	Vanadium	7440-62-2	73.0	0.0247	0.112		2
06149	Zinc	7440-66-6	96.7	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1 J	0.93	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-040-SA5DN-SS-0.0-0.5

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15812 SDG#: DE158-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 14:45	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 08:12	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011 07:55	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 21:25	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 07:09	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 02:38	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011 01:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/02/2011 22:45	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 09:05	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 01:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111440003A	05/24/2011 22:46	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 21:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111440003A	05/24/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:26	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:26	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 17:16	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:26	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:26	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:26	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:13	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:26	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:13	Eric L Eby	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294844
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15812 SDG#: DE158-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:26	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 10:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 14:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 14:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 18:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 16:29	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202B	05/27/2011 20:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202B	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	252	J	188	376		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank or the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.68	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.78	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.6	J	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.77	J	0.75	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	1.7	J	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.38		1
01363	p,p-DDE	72-55-9	0.075	U	0.075	0.38		1
01363	p,p-DDT	50-29-3	0.32	J	0.075	0.38		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.38		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.38		1
01363	Endrin	72-20-8	0.075	U	0.075	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.38		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.38		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.19	J	0.075	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.5	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.8		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	6.5	J	2.3	6.8		5
10199	EFH (C21-C30)	n.a.	33		2.3	6.8		5
10199	EFH (C30 - C40)	n.a.	100		2.3	6.8		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.8		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,700		5.67	22.6		1
07914	Boron	7440-42-8	15.9		1.00	5.64		1
01650	Calcium	7440-70-2	20,000		6.91	22.6		1
01654	Iron	7439-89-6	28,800		5.31	22.6		1
01656	Lithium	7439-93-2	20.4		0.25	2.3		1
01657	Magnesium	7439-95-4	6,400		2.86	11.3		1
06958	Manganese	7439-96-5	449		0.0880	0.564		1
10145	Phosphorus	7723-14-0	339		0.631	11.3		1
01662	Potassium	7440-09-7	3,560		20.3	56.4		1
01667	Sodium	7440-23-5	140		42.1	113		1
07968	Strontium	7440-24-6	48.4		0.0699	0.564		1
06969	Tin	7440-31-5	2.94	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,320		0.420	1.11		1
10146	Zirconium	7440-67-7	2.54	J	0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.292		0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.11		0.0893	0.447		2
06126	Barium	7440-39-3	177		0.121	0.447		2
06127	Beryllium	7440-41-7	0.926		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.358		0.0447	0.112		2

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Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	36.8	0.134	0.447		2
06132	Cobalt	7440-48-4	12.0	0.0223	0.112		2
06133	Copper	7440-50-8	15.2	0.0737	0.447		2
06135	Lead	7439-92-1	16.0	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.535	0.0558	0.112		2
06139	Nickel	7440-02-0	25.3	0.112	0.447		2
06141	Selenium	7782-49-2	0.140 J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0529 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.435	0.0335	0.112		2
06148	Vanadium	7440-62-2	71.2	0.0246	0.112		2
06149	Zinc	7440-66-6	105	0.625	3.35		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0059 J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0 J	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.80 J	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.15	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/08/2011 12:35	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 08:38	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/01/2011 10:39	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 22:08	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 07:18	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 03:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011 01:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011 00:18	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 09:30	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 02:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 18:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 22:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:20	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:20	Eric L Eby	1

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Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294845
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-13 SDG#: DE158-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:37	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 10:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 14:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 14:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 18:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11146243201A	05/27/2011 16:35	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202B	05/27/2011 20:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202B	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294846
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15814 SDG#: DE158-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294846
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15814 SDG#: DE158-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	9.2		1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	36		3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	42		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	65		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	18		3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	30		3.6	9.1		5
10138	Chrysene	218-01-9	48		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	6.7	J	3.6	9.1		5
10138	Fluoranthene	206-44-0	89		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	15		3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	48		3.6	9.1		5
10138	Pyrene	129-00-0	66		3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	5.6	U	5.6	5.6		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	600		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.19	U	0.19	0.19		1
10401	2,4,5-TP	93-72-1	0.13	U	0.13	0.19		1

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SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294846
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15814 SDG#: DE158-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.18	J	0.073	0.37		1
01363	p,p-DDE	72-55-9	2.2		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.7		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.5	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	9.8		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		5.40	21.5		1
07914	Boron	7440-42-8	14.6		0.956	5.37		1
01650	Calcium	7440-70-2	5,080		6.58	21.5		1
01654	Iron	7439-89-6	26,100		5.06	21.5		1

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Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294846
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15814 SDG#: DE158-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	17.0		0.24	2.1		1
01657	Magnesium	7439-95-4	5,340		2.73	10.7		1
06958	Manganese	7439-96-5	807		0.0838	0.537		1
10145	Phosphorus	7723-14-0	404		0.601	10.7		1
01662	Potassium	7440-09-7	4,190		19.3	53.7		1
01667	Sodium	7440-23-5	94.2	J	40.1	107		1
07968	Strontium	7440-24-6	29.2		0.0666	0.537		1
06969	Tin	7440-31-5	2.90	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,220		0.404	1.06		1
10146	Zirconium	7440-67-7	1.81	J	0.902	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.595		0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.47		0.0851	0.425		2
06126	Barium	7440-39-3	144		0.287	1.06		5
06127	Beryllium	7440-41-7	0.965		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.800		0.0425	0.106		2
06131	Chromium	7440-47-3	41.2		0.128	0.425		2
06132	Cobalt	7440-48-4	18.1		0.0213	0.106		2
06133	Copper	7440-50-8	19.4		0.0702	0.425		2
06135	Lead	7439-92-1	43.6		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.976		0.0532	0.106		2
06139	Nickel	7440-02-0	32.4		0.106	0.425		2
06141	Selenium	7782-49-2	0.229	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0770	J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.465		0.0319	0.106		2
06148	Vanadium	7440-62-2	85.1		0.0234	0.106		2
06149	Zinc	7440-66-6	153		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0232	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.51		0.0100	0.0100		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294846
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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15814 SDG#: DE158-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011	09:05	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011	08:27	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011	09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011	08:30	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011	03:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011	01:50	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011	00:36	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011	03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011	03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011	21:30	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011	17:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011	17:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011	17:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011	17:24	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011	17:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011	11:49	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011	09:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011	10:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011	10:55	Choon Y Tian	2

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Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
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SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294846
LLI Group # 1248037
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15814 SDG#: DE158-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 16:05	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 14:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 18:53	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 17:03	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-051-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294847
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-15 SDG#: DE158-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	57.3		18.2	36.3		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at 170 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	60	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1

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Sample Description: SL-051-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294847
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-15 SDG#: DE158-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	4.5	J	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	7.9	J	3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	13		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	57		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	8.2	J	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	18		3.6	9.1		5
10138	Chrysene	218-01-9	43		1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	4.2	J	3.6	9.1		5
10138	Fluoranthene	206-44-0	82		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.3	J	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	4.6	J	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	45		3.6	9.1		5
10138	Pyrene	129-00-0	44		3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294847
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

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Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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58-15 SDG#: DE158-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	6.9		0.68	1.9		1
10401	Dicamba	1918-00-9	0.49	J	0.44	1.3		1
10401	Dinoseb	88-85-7	7.0	U	7.0	7.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,100		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1

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SL-051-SA5DN-SS-0.0-0.5

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58-15 SDG#: DE158-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.23		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.32	U	0.32	0.32		1
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable. Despite florisil cleanup, our usual reporting limits were not attained.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.10	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.84		0.073	0.37		1
01363	p,p-DDT	50-29-3	0.55		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.074	J	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.0		0.36	1.9		1
10225	PCB-1260	11096-82-5	1.6	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294847
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

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58-15 SDG#: DE158-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	66		50
10199	EFH (C15-C20)	n.a.	33	J	22	66		50
10199	EFH (C21-C30)	n.a.	390		22	66		50
10199	EFH (C30 - C40)	n.a.	1,200		22	66		50
10199	EFH (C8-C11)	n.a.	22	U	22	66		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.34	21.2		1
07914	Boron	7440-42-8	15.4		0.945	5.31		1
01650	Calcium	7440-70-2	5,420		6.51	21.2		1
01654	Iron	7439-89-6	27,000		5.00	21.2		1
01656	Lithium	7439-93-2	18.1		0.23	2.1		1
01657	Magnesium	7439-95-4	5,410		2.70	10.6		1
06958	Manganese	7439-96-5	456		0.0828	0.531		1
10145	Phosphorus	7723-14-0	430		0.594	10.6		1
01662	Potassium	7440-09-7	4,310		19.1	53.1		1
01667	Sodium	7440-23-5	118		39.6	106		1
07968	Strontium	7440-24-6	33.9		0.0658	0.531		1
06969	Tin	7440-31-5	2.91	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,070		0.411	1.08		1
10146	Zirconium	7440-67-7	2.56	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.371		0.0656	0.219		2

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SL-051-SA5DN-SS-0.0-0.5

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58-15 SDG#: DE158-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.79		0.0874	0.437		2
06126	Barium	7440-39-3	168		0.118	0.437		2
06127	Beryllium	7440-41-7	0.814		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.456		0.0437	0.109		2
06131	Chromium	7440-47-3	32.7		0.131	0.437		2
06132	Cobalt	7440-48-4	11.0		0.0219	0.109		2
06133	Copper	7440-50-8	15.9		0.0721	0.437		2
06135	Lead	7439-92-1	21.1		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.692		0.0546	0.109		2
06139	Nickel	7440-02-0	23.2		0.109	0.437		2
06141	Selenium	7782-49-2	0.192	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0586	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.359		0.0328	0.109		2
06148	Vanadium	7440-62-2	68.2		0.0240	0.109		2
06149	Zinc	7440-66-6	107		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294847
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-15 SDG#: DE158-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 15:18	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 09:31	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011 08:59	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/01/2011 22:50	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 07:28	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111440021A	05/26/2011 04:00	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011 02:03	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011 00:55	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111440021A	05/24/2011 21:30	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 09:54	Heather E Williams	50
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 02:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 18:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 23:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1

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Sample Description: SL-051-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294847
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-15 SDG#: DE158-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:53	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 10:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 10:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 10:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 10:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 15:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 15:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 19:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 17:15	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202B	05/27/2011 20:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202B	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-051-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294847
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-15 SDG#: DE158-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.9		7.2	8.6		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.93
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.93
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.93
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.93
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.93
06192	Methylene Chloride	75-09-2	1.0	J	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.93

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.93
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.93
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.93

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	53.6		19.2	38.3		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at 290 ng/kg. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1

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Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1

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Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

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Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.76	22.9		1
07914	Boron	7440-42-8	14.1		1.02	5.73		1
01650	Calcium	7440-70-2	8,800		7.02	22.9		1
01654	Iron	7439-89-6	29,100		5.40	22.9		1
01656	Lithium	7439-93-2	22.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,300		2.91	11.5		1
06958	Manganese	7439-96-5	313		0.0894	0.573		1
10145	Phosphorus	7723-14-0	406		0.642	11.5		1
01662	Potassium	7440-09-7	2,710		20.6	57.3		1
01667	Sodium	7440-23-5	145		42.7	115		1
07968	Strontium	7440-24-6	34.7		0.0710	0.573		1
06969	Tin	7440-31-5	2.84	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,060		0.431	1.13		1
10146	Zirconium	7440-67-7	2.00	J	0.963	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.381		0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.8		0.0917	0.458		2
06126	Barium	7440-39-3	165		0.309	1.15		5
06127	Beryllium	7440-41-7	1.22		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.409		0.0458	0.115		2
06131	Chromium	7440-47-3	50.7		0.138	0.458		2
06132	Cobalt	7440-48-4	16.4		0.0229	0.115		2
06133	Copper	7440-50-8	17.0		0.0756	0.458		2
06135	Lead	7439-92-1	15.9		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.581		0.0573	0.115		2
06139	Nickel	7440-02-0	35.0		0.115	0.458		2
06141	Selenium	7782-49-2	0.121	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0651	J	0.0138	0.115		2

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SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
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15816 SDG#: DE158-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.532		0.0344	0.115		2
06148	Vanadium	7440-62-2	94.5		0.0252	0.115		2
06149	Zinc	7440-66-6	106		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-064-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 14:42	Chelsea B Eastep	0.93

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Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
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SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
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Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111441AA	05/24/2011 11:03	Jason M Long	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114124479	05/21/2011 13:56	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 15:34	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 09:58	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011 09:31	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 21:07	Elizabeth J Marin	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 13:56	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/02/2011 00:58	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 07:37	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:51	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011 01:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 00:23	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 02:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 18:54	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 07:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1

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Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:31	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:31	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 11:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 16:07	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 11:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 11:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 11:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 15:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 15:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 19:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11146243201A	05/27/2011 17:20	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11147102202B	05/27/2011 20:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294848
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15816 SDG#: DE158-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11147102202B	05/27/2011 15:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-17 SDG#: DE158-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.8		6.9	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	0.82	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

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Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
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58-17 SDG#: DE158-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.4	J	18.9	37.8		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at 280 ng/kg. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
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58-17 SDG#: DE158-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1

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Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-17 SDG#: DE158-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.7
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-17 SDG#: DE158-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1

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SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-17 SDG#: DE158-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,700		5.53	22.0		1
07914	Boron	7440-42-8	15.7		0.978	5.49		1
01650	Calcium	7440-70-2	20,100		6.74	22.0		1
01654	Iron	7439-89-6	31,200		25.9	110		5
01656	Lithium	7439-93-2	24.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,840		2.79	11.0		1
06958	Manganese	7439-96-5	436		0.0857	0.549		1
10145	Phosphorus	7723-14-0	347		0.615	11.0		1
01662	Potassium	7440-09-7	3,150		19.8	54.9		1
01667	Sodium	7440-23-5	351		41.0	110		1
07968	Strontium	7440-24-6	45.1		0.0681	0.549		1
06969	Tin	7440-31-5	3.01	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,040		0.418	1.10		1
10146	Zirconium	7440-67-7	2.62	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.374		0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.37		0.0888	0.444		2
06126	Barium	7440-39-3	161		0.300	1.11		5
06127	Beryllium	7440-41-7	1.12		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.311		0.0444	0.111		2
06131	Chromium	7440-47-3	44.3		0.133	0.444		2
06132	Cobalt	7440-48-4	12.8		0.0222	0.111		2
06133	Copper	7440-50-8	17.9		0.0732	0.444		2
06135	Lead	7439-92-1	13.6		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.489		0.0555	0.111		2
06139	Nickel	7440-02-0	28.7		0.111	0.444		2
06141	Selenium	7782-49-2	0.0959	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0801	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.475		0.0333	0.111		2

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SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
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Project Name: SSFL Area IV Collocated Soil Sampling

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58-17 SDG#: DE158-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	81.6		0.0244	0.111		2
06149	Zinc	7440-66-6	88.2		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-065-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 15:04	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111441AA	05/24/2011 11:24	Jason M Long	21.51

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SL-065-SA5DN-SB-4.0-5.0

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58-17 SDG#: DE158-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 13:59	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114124479	05/21/2011 13:59	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 15:51	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 10:24	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011 10:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 21:44	Elizabeth J Marin	21.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 13:59	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/02/2011 01:40	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 07:47	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011 01:32	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 00:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 02:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 19:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 08:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:54	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:46	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/02/2011 17:35	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:46	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:54	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-17 SDG#: DE158-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:46	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:46	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:46	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 12:02	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 16:09	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 11:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 11:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 11:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 15:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 15:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 19:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 17:38	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:29	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1

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Sample Description: **SL-065-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294849
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

58-17 SDG#: DE158-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294850
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15818 SDG#: DE158-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.6		6.9	8.2		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.93
06192	Methylene Chloride	75-09-2	0.81	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294850
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15818 SDG#: DE158-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.93

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.87

GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	503		18.3	36.7		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at 210 ng/kg. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1

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Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294850
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15818 SDG#: DE158-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1

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Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294850
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15818 SDG#: DE158-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294850
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15818 SDG#: DE158-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.36	21.3		1
07914	Boron	7440-42-8	10.7		0.948	5.32		1
01650	Calcium	7440-70-2	3,430		6.53	21.3		1
01654	Iron	7439-89-6	22,100		5.02	21.3		1
01656	Lithium	7439-93-2	19.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,090		2.70	10.6		1
06958	Manganese	7439-96-5	290		0.0831	0.532		1
10145	Phosphorus	7723-14-0	329		0.596	10.6		1
01662	Potassium	7440-09-7	2,150		19.2	53.2		1
01667	Sodium	7440-23-5	224		39.7	106		1
07968	Strontium	7440-24-6	18.5		0.0660	0.532		1
06969	Tin	7440-31-5	2.79	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,050		0.413	1.09		1
10146	Zirconium	7440-67-7	1.77	J	0.894	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.199	J	0.0639	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.87		0.0852	0.426		2
06126	Barium	7440-39-3	104		0.115	0.426		2
06127	Beryllium	7440-41-7	0.786		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.171		0.0426	0.106		2
06131	Chromium	7440-47-3	27.1		0.128	0.426		2
06132	Cobalt	7440-48-4	9.14		0.0213	0.106		2
06133	Copper	7440-50-8	11.1		0.0703	0.426		2
06135	Lead	7439-92-1	9.62		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.472		0.0532	0.106		2
06139	Nickel	7440-02-0	17.0		0.106	0.426		2
06141	Selenium	7782-49-2	0.0514	J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0484	J	0.0128	0.106		2

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Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.294		0.0319	0.106		2
06148	Vanadium	7440-62-2	52.8		0.0234	0.106		2
06149	Zinc	7440-66-6	60.6		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0184	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-065-SA5DN-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 15:26	Chelsea B Eastep	0.93

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10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111441AA	05/24/2011 11:44	Jason M Long	20.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114124479	05/21/2011 14:02	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 16:08	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 10:51	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011 10:36	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 22:20	Elizabeth J Marin	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:02	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/02/2011 02:22	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 07:56	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 18:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011 01:50	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 01:12	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 03:03	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 19:58	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 09:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:49	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:49	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:49	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:49	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:49	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 12:06	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 09:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 11:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 11:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 11:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 11:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 15:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 15:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 20:21	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11146243201A	05/27/2011 17:43	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:30	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294850
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15818 SDG#: DE158-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.1		7.5	9.0		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.98
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.98
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.98
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.98
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.98
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.98
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		0.98
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.98
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.98
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.98
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.98
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.98
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.98
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.98
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.98
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.98
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		0.98
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.98
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.98
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.98
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.98
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.98
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.98
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.98
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.98
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.98
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.98
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.98
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.98
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.98
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		0.98
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		0.98
06192	Methylene Chloride	75-09-2	0.92	J	0.27	4.5		0.98
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.98

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.98
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.98
06192	Toluene	108-88-3	0.09	U	0.09	4.5		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.98
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.98
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.98
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.98
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.98
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.98

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		23.99
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.7	J	18.9	37.9		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 24.7 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time. The re-extraction was analyzed at a 10X dilution, and n-nitrosodimethylamine was not detected in the method blank. N-Nitrosodimethylamine was detected in the sample at 180 ng/kg. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1

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Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1

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Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

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Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.59	22.2		1
07914	Boron	7440-42-8	14.4		0.989	5.55		1
01650	Calcium	7440-70-2	21,900		6.81	22.2		1
01654	Iron	7439-89-6	27,800		5.23	22.2		1
01656	Lithium	7439-93-2	21.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,530		2.82	11.1		1
06958	Manganese	7439-96-5	283		0.0866	0.555		1
10145	Phosphorus	7723-14-0	370		0.622	11.1		1
01662	Potassium	7440-09-7	2,960		20.0	55.5		1
01667	Sodium	7440-23-5	279		41.4	111		1
07968	Strontium	7440-24-6	45.4		0.0689	0.555		1
06969	Tin	7440-31-5	2.85	J	1.11	11.1		1
06970	Titanium	7440-32-6	975		0.422	1.11		1
10146	Zirconium	7440-67-7	1.90	J	0.933	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.220	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.80		0.0906	0.453		2
06126	Barium	7440-39-3	140		0.122	0.453		2
06127	Beryllium	7440-41-7	0.803		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.320		0.0453	0.113		2
06131	Chromium	7440-47-3	34.3		0.136	0.453		2
06132	Cobalt	7440-48-4	8.97		0.0227	0.113		2
06133	Copper	7440-50-8	12.6		0.0748	0.453		2
06135	Lead	7439-92-1	10.3		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.331		0.0566	0.113		2
06139	Nickel	7440-02-0	20.9		0.113	0.453		2
06141	Selenium	7782-49-2	0.0673	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0401	J	0.0136	0.113		2

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Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.367		0.0340	0.113		2
06148	Vanadium	7440-62-2	67.5		0.0249	0.113		2
06149	Zinc	7440-66-6	64.5		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-086-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 15:49	Chelsea B Eastep	0.98

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SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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15819 SDG#: DE158-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111441AA	05/24/2011 12:04	Jason M Long	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114124479	05/21/2011 14:05	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11143SLI026	06/06/2011 16:24	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 11:18	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011 11:09	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11143SLI026	05/24/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11139A34A	05/23/2011 22:56	Elizabeth J Marin	22.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:05	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/02/2011 03:05	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111450002A	05/27/2011 08:06	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 19:03	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011 02:09	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111450002A	05/25/2011 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111470002A	05/31/2011 01:37	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111440043A	05/25/2011 03:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 20:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111460029A	06/01/2011 09:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111470002A	05/27/2011 11:45	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111460029A	05/27/2011 07:30	Joseph S Feister	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111440043A	05/24/2011 17:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1

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SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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15819 SDG#: DE158-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:53	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:53	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:53	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:53	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:53	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 12:10	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 10:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 11:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 11:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 11:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 11:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 16:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11150373203B	05/31/2011 16:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 20:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11146243201A	05/27/2011 17:55	Nicole M Kepley	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294851
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15819 SDG#: DE158-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.7	9.1		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.6		0.96
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		0.96
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		0.96
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		0.96
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		0.96
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		0.96
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		0.96
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		0.96
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		0.96
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		0.96
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.6		0.96
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		0.96
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		0.96
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		0.96
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		0.96
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.6		0.96
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		0.96
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.6		0.96
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.6		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		0.96
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.6		0.96
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		0.96
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		0.96
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.6		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		0.96
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.6		0.96
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.6		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		0.96
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		0.96
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.96
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		0.96
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		0.96
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.1		0.96
06192	Methylene Chloride	75-09-2	1.6	J	0.27	4.6		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		0.96

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.6		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.6		0.96
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		0.96
06192	Toluene	108-88-3	0.09	U	0.09	4.6		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		0.96
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		0.96
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.6		0.96
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		0.96
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.6		0.96
06192	o-Xylene	95-47-6	0.19	U	0.19	4.6		0.96
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.5	U	6.5	20		27.29
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol bis(2-ethylhexyl)phthalate							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1

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Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1

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Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
	The LCS recovery for HMX and nitroglycerin is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	6.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,500		5.79	23.0		1
07914	Boron	7440-42-8	11.7		1.02	5.75		1
01650	Calcium	7440-70-2	4,630		7.05	23.0		1
01654	Iron	7439-89-6	25,100		5.42	23.0		1
01656	Lithium	7439-93-2	19.6		0.25	2.3		1
01657	Magnesium	7439-95-4	4,690		2.92	11.5		1
06958	Manganese	7439-96-5	165		0.0897	0.575		1
10145	Phosphorus	7723-14-0	172		0.644	11.5		1
01662	Potassium	7440-09-7	2,110		20.7	57.5		1
01667	Sodium	7440-23-5	170		42.9	115		1
07968	Strontium	7440-24-6	26.3		0.0713	0.575		1
06969	Tin	7440-31-5	3.09	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,190		0.441	1.16		1
10146	Zirconium	7440-67-7	1.36	J	0.966	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206	J	0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.58		0.0938	0.469		2
06126	Barium	7440-39-3	123		0.127	0.469		2
06127	Beryllium	7440-41-7	0.949		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.0535	J	0.0469	0.117		2

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Analysis Report

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium		7440-47-3	30.2	0.141	0.469		2
06132	Cobalt		7440-48-4	6.76	0.0235	0.117		2
06133	Copper		7440-50-8	10.4	0.0774	0.469		2
06135	Lead		7439-92-1	9.38	0.0122	0.235		2
06138	Molybdenum		7439-98-7	0.626	0.0586	0.117		2
06139	Nickel		7440-02-0	15.7	0.117	0.469		2
06141	Selenium		7782-49-2	0.0625 J	0.0469	0.469		2
06142	Silver		7440-22-4	0.0357 J	0.0141	0.117		2
06145	Thallium		7440-28-0	0.352	0.0352	0.117		2
06148	Vanadium		7440-62-2	56.9	0.0258	0.117		2
06149	Zinc		7440-66-6	58.7	0.657	3.52		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0033 U	0.0033	0.116		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	4.9	0.96	1.2		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.8 U	10.8	35.9		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.65 J	0.24	1.2		1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.82	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	16.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-088-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 16:11	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111441AA	05/24/2011 12:24	Jason M Long	27.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114124479	05/21/2011 14:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114124479	05/21/2011 14:07	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	2	201114124479	05/21/2011 14:08	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11143SLC026	06/01/2011 11:44	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLE026	06/02/2011 11:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLE026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11143SLC026	05/24/2011 08:30	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111460004A	06/02/2011 03:47	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111430024A	05/26/2011 19:10	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460022A	06/03/2011 02:27	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460022A	05/27/2011 03:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111430024A	05/24/2011 09:45	Maria Davenport	1
11137	Energetics Extraction	SW-846 8330	1	111460004A	05/26/2011 14:45	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111475708001	06/02/2011 17:57	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111475708001	06/02/2011 17:57	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111475708001	06/02/2011 17:57	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111475708001	06/02/2011 17:57	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111475708001	06/02/2011 17:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111545708002	06/06/2011 12:15	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111475708001	06/01/2011 10:07	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111471026001D	06/06/2011 11:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2

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Analysis Report

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294852
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15820 SDG#: DE158-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111471026001C	06/06/2011 11:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111471026001B	06/06/2011 11:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111471026001A	06/06/2011 11:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111475711002	05/31/2011 19:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111475708001	05/30/2011 19:35	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708002	06/05/2011 20:47	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111471026001	06/05/2011 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111475711002	05/31/2011 00:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11150373203B	05/31/2011 16:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11150373202B	06/04/2011 21:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11146243201A	05/27/2011 18:12	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11150373203B	05/30/2011 12:00	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11150373202B	05/30/2011 12:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039402B	05/25/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11146243201A	05/26/2011 17:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: TB-052011 Water
SSFL Area IV Collocated Soil Sampling
TB-052011

LLI Sample # WW 6294853
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:30

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15821 SDG#: DE158-21TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-052011 Water
SSFL Area IV Collocated Soil Sampling
TB-052011

LLI Sample # WW 6294853
LLI Group # 1248037
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:30

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 11:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15821 SDG#: DE158-21TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111441AA	05/24/2011 13:43	Emily R Styer	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111431AA	05/23/2011 10:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111431AA	05/23/2011 10:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111441AA	05/24/2011 13:43	Emily R Styer	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11146A20A	05/27/2011 00:22	Elizabeth J Marin	1
01146	GC VOA Water Prep	SW-846 5030B	1	11146A20A	05/27/2011 00:22	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111471AA	Sample number(s): 6294848-6294852									
Acetone	9.6		6.7	8.0	ug/kg	159	153	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	103	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99	98	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	106	101	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100	96	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	93	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	73	73	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	134	124	46-153	8	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	102	102	72-120	0	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	103	103	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	102	100	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	99	69-122	6	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103	100	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	67	67	37-154	0	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95	91	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	107	101	80-120	6	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	81	80	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99	99	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	102	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	98	101	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	101	96	58-120	5	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	103	99	80-120	5	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100	96	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101	100	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97	97	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71	67	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	106	102	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	106	103	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108	103	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	99	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	100	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	99	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104	101	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	96	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	102	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	96	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	93	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104	103	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	106	99	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	77*	77*	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	90	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	123	118	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	105	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	103	99	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107	101	61-134	5	30
Methylene Chloride	1.1	J	0.24	4.0	ug/kg	110	103	76-124	6	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108	107	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	104	102	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	101	99	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	94	71-123	4	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103	99	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	102	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	94	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	99	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	99	80-120	3	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	89	83	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	97	95	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	102	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104	103	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	81	79	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	106	105	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	103	103	80-120	1	30
Batch number: E111431AA	Sample number(s): 6294853									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112	111	80-123	1	30
Batch number: E111441AA	Sample number(s): 6294848-6294852									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	107	114	70-130	7	30
Batch number: L111441AA	Sample number(s): 6294853									
Acetone	6	U	6.	20	ug/l	134	117	49-234	13	30
Benzene	0.5	U	0.5	5	ug/l	102	98	79-120	5	30
Bromobenzene	1	U	1.	5	ug/l	94	90	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	99	94	80-120	5	30
Bromodichloromethane	1	U	1.	5	ug/l	98	92	80-120	7	30
Bromoform	1	U	1.	5	ug/l	82	79	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	110	107	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	104	99	66-151	5	30
n-Butylbenzene	1	U	1.	5	ug/l	100	96	74-120	5	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	89	78-120	4	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	91	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	92	75-123	9	30
Chlorobenzene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	109	102	49-129	6	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	94	89	56-129	5	30
Chloroform	0.8	U	0.8	5	ug/l	105	99	77-122	7	30
Chloromethane	1	U	1.	5	ug/l	104	103	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	92	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	97	93	80-120	4	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	57	56	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	94	89	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	94	87	80-120	7	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	95	80-120	6	30
Dibromomethane	1	U	1.	5	ug/l	100	93	80-120	7	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	91	80-120	4	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	91	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	80-120	3	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	91	88	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	99	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	110	105	70-130	5	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	92	89	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	93	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	98	92	80-120	7	30
1,2-Dichloropropane	1	U	1.	5	ug/l	100	93	78-120	6	30
1,3-Dichloropropane	1	U	1.	5	ug/l	100	95	80-120	5	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	90	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	103	95	80-120	8	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	91	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	88	79-120	6	30
Ethylbenzene	0.8	U	0.8	5	ug/l	100	95	79-120	5	30
Freon 113	2	U	2.	10	ug/l	95	87	69-128	9	30
Freon 133a	2	U	2.	5	ug/l	96	96	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	80	79	58-120	2	30
2-Hexanone	3	U	3.	10	ug/l	98	93	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	100	95	77-120	5	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	89	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	93	76-120	5	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	91	70-121	5	30
Methylene Chloride	2	U	2.	5	ug/l	98	93	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	94	93	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	93	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	91	80-120	7	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	100	96	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	92	80-121	5	30
Toluene	0.7	U	0.7	5	ug/l	100	95	79-120	4	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	88	85	65-120	3	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	83	81	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	101	96	75-127	5	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	99	95	80-120	4	30
Trichloroethene	1	U	1.	5	ug/l	98	95	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	112	105	64-129	7	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	94	80-120	5	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	94	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	90	75-120	6	30
Vinyl Chloride	1	U	1.	5	ug/l	103	101	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	94	80-120	5	30
o-Xylene	0.8	U	0.8	5	ug/l	97	92	80-120	5	30
Batch number: 11143SLC026	Sample number(s): 6294833,6294835,6294837-6294852									
Acenaphthene	17	U	17.	170	ug/kg	94		76-111		
Aniline	170 U		170.	500	ug/kg	84		34-94		
Anthracene	17	U	17.	170	ug/kg	97		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	65		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	99		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	96		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	94		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	90		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	98		67-125		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	106		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	118*		75-115		
Di-n-butylphthalate	17	J	17.	170	ug/kg	107		79-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	104		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	77		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	81		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	103		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	100		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	69		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	105		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	56		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	33*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	97		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	122*		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	85		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	88		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	102		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	106		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	101		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	79		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	102		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	81		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	105		58-112		
Pyrene	17	U	17.	170	ug/kg	105		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11143SLI026	Sample number(s): 6294833-6294845,6294847-6294851									
N-Nitrosodimethylamine	24.7	J	16.7	33.3	ng/kg	107		70-130		
Batch number: 11145SLD026	Sample number(s): 6294836									
Aniline	170 U		170.	500	ug/kg	63		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	38		15-121		
Benzoic acid	170 U		170.	500	ug/kg	104		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	75*		79-117		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	78		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	82		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	82		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	84		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	86		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	80		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	77		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	78		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	88		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	85		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	94		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	88		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	77		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	75*		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	66*		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	70		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Isophorone	17	U	17.	170	ug/kg	82		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	79		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	80*		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	81		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	77		51-117		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenol	17	U	17.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	74		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	84		78-111		
Batch number: 11145SLE026	Sample number(s): 6294833-6294852									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	101		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	123		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	126		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	124		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	136		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	123		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	126		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	104		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	131		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	124		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	97		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	141		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	101		56-121		
Batch number: 11152SLE026	Sample number(s): 6294834									
Aniline	170 U		170.	500	ug/kg	68		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	42		15-121		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	114		75-115		
Di-n-butylphthalate	19	J	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	48		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	101		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100		100.	330	ug/kg	46		24-101		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	25	J	17.	170	ug/kg	103		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	19	J	17.	330	ug/kg	118*		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	105		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	98		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	87		51-117		
Phenol	17	U	17.	170	ug/kg	97		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	104		78-111		
Batch number: 11139A34A	Sample number(s): 6294848-6294851									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71	73	67-119	2	30
Batch number: 11146A20A	Sample number(s): 6294853									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 111460004A	Sample number(s): 6294833-6294845,6294847-6294852									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	85		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	85		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	81	88	54-134	7	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	81	87	54-134	7	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	92		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	85		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	86		80-120		
HMX	100	U	100.	300	ug/kg	69*		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	93		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	75*		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80	U	80.	120	ug/kg	89		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	94		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	88		80-120		
PETN	800	U	800.	2,400	ug/kg	88		80-120		
RDX	50	U	50.	120	ug/kg	80		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	86		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	84		80-120		
Batch number: 111450002A	Sample number(s): 6294833-6294845,6294847-6294851									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	89		80-126		
Batch number: 111440021A	Sample number(s): 6294833-6294847									
2,4-D	1.2	U	1.2	3.6	ug/kg	94		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	52		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	110		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	83		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	104		62-170		
MCPA	76	U	76.	250	ug/kg	76		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	75		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	94		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 111430024A	Sample number(s): 6294835,6294843,6294848,6294850-6294852									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111460022A	Sample number(s): 6294833-6294852									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	82	82	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111460023A	Sample number(s): 6294833-6294847									
Aldrin	0.066	U	0.066	0.17	ug/kg	85		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	109		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	91		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	115		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	111		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	109		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	100		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	118		72-138		

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Client Name: CDM Federal Programs Corp. Group Number: 1248037
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endrin	0.066	U	0.066	0.34	ug/kg	113		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	97		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	103		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	100		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	135*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111470002A	Sample number(s): 6294833-6294845,6294847-6294851									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	98		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		54-107		
Batch number: 111440003A	Sample number(s): 6294833-6294844									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	86		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Batch number: 111440043A	Sample number(s): 6294833-6294845,6294847-6294851									
Ethanol	100 U		100.	500	ug/kg	90		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 111450001A	Sample number(s): 6294845,6294847-6294851									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	92		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Batch number: 111460029A	Sample number(s): 6294833-6294845,6294847-6294851									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		75-125		
Batch number: 111471026001A	Sample number(s): 6294833-6294852									
Antimony	0.0600	U	0.0600	0.200	mg/kg	117		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	100		82-118		
Copper	0.0695	J	0.0660	0.400	mg/kg	92		83-110		
Lead	0.0104	U	0.0104	0.200	mg/kg	99		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	100		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	99		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	100		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	105		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111471026001B	Sample number(s): 6294833-6294852									
Selenium	0.0400	U	0.0400	0.400	mg/kg	104		83-111		
Batch number: 111471026001C	Sample number(s): 6294833-6294852									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	108		78-122		
Batch number: 111471026001D	Sample number(s): 6294833-6294852									
Barium	0.108	U	0.108	0.400	mg/kg	101		81-111		
Batch number: 111475708001	Sample number(s): 6294833-6294852									
Aluminum	6.44	J	5.03	20.0	mg/kg	79		61-110		
Boron	0.910	J	0.890	5.00	mg/kg	95		78-110		
Calcium	13.9	J	6.13	20.0	mg/kg	100		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	90		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	101		89-112		
Phosphorus	1.20	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0710	J	0.0620	0.500	mg/kg	99		86-110		
Tin	1.48	J	1.00	10.0	mg/kg	102		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111475711002	Sample number(s): 6294833-6294852									
Mercury	0.0028	U	0.0028	0.0987	mg/kg	96		88-123		
Batch number: 111545708002	Sample number(s): 6294833-6294852									
Titanium	0.380	U	0.380	1.00	mg/kg	92		80-120		
Batch number: 11146243201A	Sample number(s): 6294833-6294852									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11147102202A	Sample number(s): 6294833-6294842									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11147102202B	Sample number(s): 6294843-6294845,6294847-6294848									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11150373202A	Sample number(s): 6294833-6294842									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11150373202B	Sample number(s): 6294843-6294852									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11150373203A	Sample number(s): 6294833-6294842									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11150373203B	Sample number(s): 6294843-6294852									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11151102201A	Sample number(s): 6294849-6294851									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	107		80-120		
Batch number: 11145039402A	Sample number(s): 6294833-6294841									
18a pH by 9045C						100		95-105		
Batch number: 11145039402B	Sample number(s): 6294842-6294852									
18a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11152162401B	Sample number(s): 6294846								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162401A	Sample number(s): 6294833-6294845,6294847-6294848								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162401B	Sample number(s): 6294849-6294852								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11143SLC026	Sample number(s): 6294833,6294835,6294837-6294852 UNSPK: 6294833								
Acenaphthene	93	90	75-115	3	30				
Aniline	80	69	35-95	15	30				
Anthracene	98	94	75-115	4	30				
Benzidine	56	46	35-141	18	30				
Benzo(a)anthracene	102	97	65-122	4	30				
Benzo(a)pyrene	96	93	57-126	2	30				
Benzo(b)fluoranthene	94	92	59-125	1	30				
Benzo(g,h,i)perylene	94	88	59-127	7	30				
Benzo(k)fluoranthene	94	92	56-132	1	30				
Benzoic acid	56	43	10-173	25	30				
Benzyl alcohol	102	105	67-115	3	30				
4-Bromophenyl-phenylether	92	89	67-129	3	30				
Butylbenzylphthalate	119	114	73-134	4	30				
Di-n-butylphthalate	107	104	67-123	1	30				
Carbazole	98	96	64-120	1	30				
4-Chloro-3-methylphenol	101	107	76-110	7	30				
4-Chloroaniline	83	76	23-95	8	30				
bis(2-Chloroethoxy)methane	96	95	75-104	1	30				
bis(2-Chloroethyl)ether	91	95	60-116	5	30				
bis(2-Chloroisopropyl)ether	97	95	55-142	1	30				
2-Chloronaphthalene	67	65	50-141	2	30				
2-Chlorophenol	99	98	73-121	0	30				
4-Chlorophenyl-phenylether	96	97	80-109	1	30				
Chrysene	101	96	62-128	4	30				
Dibenzofuran	97	95	71-112	1	30				
1,2-Dichlorobenzene	87	85	66-108	2	30				
1,3-Dichlorobenzene	85	83	63-109	2	30				
1,4-Dichlorobenzene	86	84	70-100	1	30				
3,3'-Dichlorobenzidine	70	51	16-119	30	30				
2,4-Dichlorophenol	98	98	78-117	1	30				
Diethylphthalate	104	105	66-118	2	30				
2,4-Dimethylphenol	96	96	78-110	0	30				
3,5-Dimethylphenol	108	106	70-130	2	30				
Dimethylphthalate	100	99	64-118	0	30				
4,6-Dinitro-2-methylphenol	57	37	24-116	43*	30				
2,4-Dinitrophenol	35	18*	20-143	63*	30				
2,4-Dinitrotoluene	101	104	73-113	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	100	100	69-123	0	30				
1,2-Diphenylhydrazine	100	93	71-129	6	30				
bis(2-Ethylhexyl)phthalate	122	119	63-122	3	30				
Fluoranthene	94	93	73-112	1	30				
Fluorene	98	98	77-111	1	30				
Hexachlorobenzene	93	90	77-114	2	30				
Hexachlorobutadiene	83	79	62-120	4	30				
Hexachlorocyclopentadiene	84	80	10-153	5	30				
Hexachloroethane	83	81	57-109	1	30				
Indeno(1,2,3-cd)pyrene	88	85	61-126	3	30				
Isophorone	96	97	73-102	2	30				
2-Methylphenol	97	100	75-111	3	30				
4-Methylphenol	102	105	71-111	3	30				
2-Nitroaniline	98	103	67-125	6	30				
3-Nitroaniline	99	102	59-122	3	30				
4-Nitroaniline	78	77	52-112	0	30				
Nitrobenzene	88	90	72-106	3	30				
2-Nitrophenol	94	94	74-115	0	30				
4-Nitrophenol	84	87	54-113	4	30				
N-Nitroso-di-n-propylamine	99	98	60-116	0	30				
N-Nitrosodiphenylamine	99	93	86-145	5	30				
Di-n-octylphthalate	103	103	56-126	1	30				
Pentachlorophenol	82	66	28-127	20	30				
Phenanthrene	96	92	65-125	3	30				
Phenol	101	100	58-126	0	30				
Pyrene	107	100	74-126	6	30				
1,2,4-Trichlorobenzene	89	88	72-115	1	30				
2,4,5-Trichlorophenol	97	99	78-109	4	30				
2,4,6-Trichlorophenol	97	95	77-115	1	30				
Batch number: 11143SLI026	Sample number(s): 6294833-6294845,6294847-6294851 UNSPK: 6294833								
N-Nitrosodimethylamine	72	69*	70-130	4	30				
Batch number: 11145SLD026	Sample number(s): 6294836 UNSPK: P296047								
Aniline	73	76	35-95	3	30				
Benzidine	26*	29*	35-141	12	30				
Benzoic acid	57	62	10-173	9	30				
Benzyl alcohol	109	115	67-115	6	30				
4-Bromophenyl-phenylether	89	88	67-129	2	30				
Carbazole	99	101	64-120	2	30				
4-Chloro-3-methylphenol	109	111*	76-110	2	30				
4-Chloroaniline	76	82	23-95	8	30				
bis(2-Chloroethoxy)methane	89	91	75-104	3	30				
bis(2-Chloroethyl)ether	87	95	60-116	8	30				
bis(2-Chloroisopropyl)ether	86	93	55-142	7	30				
2-Chloronaphthalene	142*	83	50-141	53*	30				
2-Chlorophenol	101	106	73-121	5	30				
4-Chlorophenyl-phenylether	97	100	80-109	2	30				
Dibenzofuran	100	101	71-112	1	30				
1,2-Dichlorobenzene	78	89	66-108	13	30				
1,3-Dichlorobenzene	75	85	63-109	12	30				
1,4-Dichlorobenzene	77	87	70-100	11	30				
3,3'-Dichlorobenzidine	77	78	16-119	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dichlorophenol	103	103	78-117	0	30				
2,4-Dimethylphenol	93	95	78-110	3	30				
3,5-Dimethylphenol	106	107	70-130	0	30				
4,6-Dinitro-2-methylphenol	78	70	24-116	10	30				
2,4-Dinitrophenol	66	53	20-143	22	30				
2,4-Dinitrotoluene	108	109	73-113	1	30				
2,6-Dinitrotoluene	102	102	69-123	1	30				
1,2-Diphenylhydrazine	93	94	71-129	1	30				
Hexachlorobenzene	93	95	77-114	1	30				
Hexachlorobutadiene	71	78	62-120	10	30				
Hexachlorocyclopentadiene	68	71	10-153	4	30				
Hexachloroethane	71	81	57-109	13	30				
Isophorone	94	96	73-102	3	30				
2-Methylphenol	99	105	75-111	6	30				
4-Methylphenol	108	111	71-111	3	30				
2-Nitroaniline	112	110	67-125	1	30				
3-Nitroaniline	111	112	59-122	0	30				
4-Nitroaniline	91	91	52-112	0	30				
Nitrobenzene	90	92	72-106	2	30				
2-Nitrophenol	99	97	74-115	2	30				
4-Nitrophenol	92	90	54-113	2	30				
N-Nitroso-di-n-propylamine	96	104	60-116	8	30				
N-Nitrosodiphenylamine	92	94	86-145	2	30				
Pentachlorophenol	86	84	28-127	2	30				
Phenol	104	111	58-126	6	30				
1,2,4-Trichlorobenzene	85	89	72-115	5	30				
2,4,5-Trichlorophenol	100	103	78-109	2	30				
2,4,6-Trichlorophenol	101	105	77-115	3	30				
Batch number: 11145SLE026	Sample number(s): 6294833-6294852 UNSPK: 6294833								
Acenaphthene	80	100	63-105	24	30				
Acenaphthylene	70	94	67-114	31*	30				
Anthracene	76	100	60-122	26	30				
Benzo(a)anthracene	-4*	67	59-128	56*	30				
Benzo(a)pyrene	-15*	84	45-138	63*	30				
Benzo(b)fluoranthene	-73*	45	43-155	64*	30				
Benzo(g,h,i)perylene	23*	50	33-141	28	30				
Benzo(k)fluoranthene	32*	116	42-144	56*	30				
Butylbenzylphthalate	115	135	57-173	17	30				
Di-n-butylphthalate	105	211*	65-148	68*	30				
Chrysene	-41*	58	48-134	71*	30				
Dibenz(a,h)anthracene	73	98	22-133	26	30				
Diethylphthalate	91	106	70-136	17	30				
Dimethylphthalate	0*	107	74-118	200*	30				
Bis(2-Ethylhexyl)phthalate	115	152	39-167	29	30				
Fluoranthene	-106*	48	26-166	88*	30				
Fluorene	85	103	66-122	19	30				
Indeno(1,2,3-cd)pyrene	47	91	21-143	38*	30				
1-Methylnaphthalene	80	98	72-123	21	30				
2-Methylnaphthalene	72	88	64-103	20	30				
Naphthalene	80	94	61-102	17	30				
N-Nitrosodimethylamine	93	108	48-113	15	30				
Di-n-octylphthalate	142	170	40-192	18	30				

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Quality Control Summary

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Reported: 06/22/11 at 11:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	21	79	12-165	50*	30				
Pyrene	-117*	24	15-153	86*	30				
Batch number: 11152SLE026	Sample number(s): 6294834 UNSPK: P298888								
Aniline	69	69	35-95	1	30				
Benzidine	22*	0*	35-141	200*	30				
Benzoic acid	56	88	10-173	44*	30				
Benzyl alcohol	103	95	67-115	8	30				
4-Bromophenyl-phenylether	99	98	67-129	1	30				
Butylbenzylphthalate	107	105	73-134	2	30				
Di-n-butylphthalate	102	98	67-123	4	30				
Carbazole	101	100	64-120	1	30				
4-Chloro-3-methylphenol	102	101	76-110	1	30				
4-Chloroaniline	74	71	23-95	4	30				
bis(2-Chloroethoxy)methane	97	96	75-104	2	30				
bis(2-Chloroethyl)ether	100	93	60-116	7	30				
bis(2-Chloroisopropyl)ether	103	96	55-142	7	30				
2-Chloronaphthalene	78	74	50-141	6	30				
2-Chlorophenol	100	95	73-121	5	30				
4-Chlorophenyl-phenylether	103	99	80-109	4	30				
Dibenzofuran	103	99	71-112	3	30				
1,2-Dichlorobenzene	93	87	66-108	7	30				
1,3-Dichlorobenzene	94	87	63-109	8	30				
1,4-Dichlorobenzene	94	87	70-100	7	30				
3,3'-Dichlorobenzidine	71	72	16-119	2	30				
2,4-Dichlorophenol	101	100	78-117	1	30				
Diethylphthalate	103	99	66-118	4	30				
2,4-Dimethylphenol	98	93	78-110	6	30				
3,5-Dimethylphenol	105	102	70-130	3	30				
Dimethylphthalate	100	96	64-118	4	30				
4,6-Dinitro-2-methylphenol	50	77	24-116	43*	30				
2,4-Dinitrophenol	27	57	20-143	72*	30				
2,4-Dinitrotoluene	104	102	73-113	2	30				
2,6-Dinitrotoluene	102	99	69-123	3	30				
1,2-Diphenylhydrazine	102	101	71-129	1	30				
bis(2-Ethylhexyl)phthalate	112	113	63-122	1	30				
Hexachlorobenzene	104	100	77-114	4	30				
Hexachlorobutadiene	94	91	62-120	3	30				
Hexachlorocyclopentadiene	76	70	10-153	8	30				
Hexachloroethane	90	85	57-109	6	30				
Isophorone	104*	98	73-102	6	30				
2-Methylphenol	100	93	75-111	7	30				
4-Methylphenol	102	97	71-111	5	30				
2-Nitroaniline	103	103	67-125	0	30				
3-Nitroaniline	102	96	59-122	6	30				
4-Nitroaniline	77	87	52-112	13	30				
Nitrobenzene	99	95	72-106	4	30				
2-Nitrophenol	100	99	74-115	1	30				
4-Nitrophenol	92	89	54-113	3	30				
N-Nitroso-di-n-propylamine	103	94	60-116	9	30				
N-Nitrosodiphenylamine	98	98	86-145	1	30				
Di-n-octylphthalate	98	93	56-126	5	30				
Pentachlorophenol	90	92	28-127	2	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenol	101	95	58-126	6	30				
1,2,4-Trichlorobenzene	99	95	72-115	4	30				
2,4,5-Trichlorophenol	105	101	78-109	4	30				
2,4,6-Trichlorophenol	104	103	77-115	1	30				
Batch number: 111460004A	Sample number(s): 6294833-6294845,6294847-6294852 UNSPK: 6294833								
4-Amino-2,6-Dinitrotoluene	91	86	80-127	4	50				
2-Amino-4,6-Dinitrotoluene	89	86	80-137	1	50				
1,3-Dinitrobenzene	95	92	38-166	1	50				
2,4-Dinitrotoluene	87	84	80-131	2	50				
2,6-Dinitrotoluene	90	86	80-127	2	50				
HMX	75	72	63-128	2	50				
Nitrobenzene	93	90	80-125	1	50				
Nitroglycerin	81	78*	80-120	1	50				
2-Nitrotoluene	89	86	80-122	1	50				
3-Nitrotoluene	95	92	72-119	1	50				
4-Nitrotoluene	89	86	80-125	1	50				
PETN	97	94	80-121	1	50				
RDX	77	74*	75-129	2	50				
Tetryl	73	65	55-174	10	50				
1,3,5-Trinitrobenzene	85	79*	82-126	5	50				
2,4,6-Trinitrotoluene	87	84	82-130	2	50				
Batch number: 111450002A	Sample number(s): 6294833-6294845,6294847-6294851 UNSPK: 6294833								
25a Formaldehyde 8315A	85	81	80-120	4	50				
Batch number: 111440021A	Sample number(s): 6294833-6294847 UNSPK: P293463								
2,4-D	120	109	17-180	9	35				
Dalapon	45	46	10-125	1	50				
2,4-DB	79	73	10-201	9	50				
Dicamba	89	83	10-190	7	50				
Dinoseb	21	18	10-46	16	35				
2,4-DP (Dichlorprop)	99	94	33-178	5	50				
MCPA	95	93	10-213	2	50				
MCPP (Mecoprop)	70	58	10-184	19	50				
2,4,5-T	95	83	10-156	14	35				
2,4,5-TP	19*	18*	24-141	3	35				
Batch number: 111430024A	Sample number(s): 6294835,6294843,6294848,6294850-6294852 UNSPK: P291999								
6a Perchlorate EPA 6850	109	111	80-120	2	20				
Batch number: 111460022A	Sample number(s): 6294833-6294852 UNSPK: 6294833								
PCB-1016	87	99	29-146	13	50				
PCB-1260	97	98	39-149	1	50				
Batch number: 111460023A	Sample number(s): 6294833-6294847 UNSPK: 6294833								
Aldrin	70	67	16-126	4	50				
Alpha BHC	88	91	10-129	3	50				
Beta BHC	59	56	14-147	5	50				
Gamma BHC - Lindane	91	91	10-140	0	50				
p,p-DDD	78	82	16-163	6	50				
p,p-DDE	74	74	18-161	0	50				
p,p-DDT	114	121	10-176	6	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Delta BHC	78	75	23-140	4	50				
Dieldrin	78	76	19-154	3	50				
Endosulfan I	70	61	16-137	14	50				
Endosulfan II	55	55	28-154	0	50				
Endosulfan Sulfate	80	75	21-160	6	50				
Endrin	77	77	11-149	0	50				
Endrin Aldehyde	60	60	10-148	0	35				
Endrin Ketone	72	71	22-165	2	50				
Heptachlor	80	76	13-126	6	50				
Heptachlor Epoxide	69	50	13-157	32	50				
Methoxychlor	102	95	32-147	7	50				
Batch number: 111470002A	Sample number(s): 6294833-6294845,6294847-6294851 UNSPK: 6294833								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	-54 (2)	-133 (2)	49-123	23*	20				
EFH (C21-C30)	-184 (2)	-237 (2)	49-123	5	20				
EFH (C30 - C40)	-2679 (2)	-2328 (2)	49-123	8	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111440003A	Sample number(s): 6294833-6294844 UNSPK: P293457								
Diethylene glycol	59	57*	59-109	3	20				
Ethylene glycol	72	70	63-107	4	20				
Propylene glycol	77	74	63-107	4	20				
Batch number: 111440043A	Sample number(s): 6294833-6294845,6294847-6294851 UNSPK: 6294842								
Ethanol	65	62	48-130	6	20				
Isopropanol	70	69	12-149	2	20				
Methanol	69	66	43-138	4	20				
Batch number: 111450001A	Sample number(s): 6294845,6294847-6294851 UNSPK: P296047								
Diethylene glycol	40*	39*	59-109	4	20				
Ethylene glycol	60*	60*	63-107	1	20				
Propylene glycol	68	68	63-107	0	20				
Batch number: 111460029A	Sample number(s): 6294833-6294845,6294847-6294851 UNSPK: 6294833								
m-Terphenyl	84	84	75-125	1	20				
o-Terphenyl	99	100	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 111471026001A	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
Antimony	55*	70*	75-125	19	20	0.260	0.212	20 (1)	20
Arsenic	112	162*	75-125	12	20	5.79	5.04	14	20
Beryllium	115	135*	75-125	10	20	0.608	0.545	11	20
Cadmium	141*	167*	75-125	15	20	0.231	0.202	14 (1)	20
Chromium	107	141*	75-125	9	20	25.7	23.7	8	20
Cobalt	133*	153*	75-125	12	20	11.2	9.90	13	20
Copper	93	115	75-125	8	20	18.3	16.7	9	20
Lead	224 (2)	176 (2)	75-125	8	20	11.8	11.5	3	20
Nickel	120	151*	75-125	10	20	18.2	15.6	15	20
Silver	143*	157*	75-125	9	20	0.0502 J	0.0424 J	17 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	149*	162*	75-125	6	20	0.343	0.314	9 (1)	20
Vanadium	148 (2)	209 (2)	75-125	7	20	67.1	61.4	9	20
Zinc	112 (2)	142 (2)	75-125	3	20	97.5	91.3	7	20
Batch number: 111471026001B	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
Selenium	122	145*	75-125	17	20	0.104 J	0.0800 J	26* (1)	20
Batch number: 111471026001C	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
Molybdenum	143*	165*	75-125	13	20	0.558	0.414	30* (1)	20
Batch number: 111471026001D	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
Barium	86 (2)	4 (2)	75-125	5	20	143	174	19	20
Batch number: 111475708001	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
Aluminum	2091 (2)	1485 (2)	75-125	7	20	13,200	13,800	5	20
Boron	100	99	84-115	0	20	10.9	10.3	6 (1)	20
Calcium	317 (2)	130 (2)	75-125	12	20	5,450	5,970	9	20
Iron	2128 (2)	145 (2)	75-125	9	20	21,100	21,600	2	20
Lithium	105	104	82-114	0	20	13.1	14.4	9	20
Magnesium	403 (2)	228 (2)	75-125	6	20	5,260	5,310	1	20
Manganese	94 (2)	91 (2)	75-125	0	20	323	308	5	20
Phosphorus	172 (2)	115 (2)	75-125	7	20	663	576	14	20
Potassium	135*	107	75-125	6	20	3,410	3,520	3	20
Sodium	104	99	75-125	4	20	130	113	13 (1)	20
Strontium	106	98	75-115	6	20	31.4	29.0	8	20
Tin	92	92	80-110	0	20	2.20 J	2.26 J	3 (1)	20
Zirconium	98	100	75-125	2	20	0.964 J	0.832 U	200* (1)	20
Batch number: 111475711002	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
Mercury	109	103	65-135	5	20	0.0120 J	0.0205 J	53* (1)	20
Batch number: 111545708002	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
Titanium	303 (2)	270 (2)	75-125	2	20	1,230	1,130	8	20
Batch number: 11146243201A	Sample number(s): 6294833-6294852 UNSPK: 6294833 BKG: 6294833								
3a Cr VI by EPA 7199	99		75-125			0.53 J	0.49 J	7 (1)	20
Batch number: 11147102202A	Sample number(s): 6294833-6294842 UNSPK: 6294839 BKG: 6294839								
17a Cyanide by 9012B	101		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11147102202B	Sample number(s): 6294843-6294845,6294847-6294848 UNSPK: 6294843 BKG: 6294843								
17a Cyanide by 9012B	100		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11150373202A	Sample number(s): 6294833-6294842 UNSPK: 6294833 BKG: 6294833								
7a Perchlorate EPA 314.0	104		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11150373202B	Sample number(s): 6294843-6294852 UNSPK: 6294843 BKG: 6294843								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11150373203A	Sample number(s): 6294833-6294842 UNSPK: 6294833 BKG: 6294833								
11a Anions by 300.0 - Fluoride	57*		80-120			1.5	1.1	36* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
11a Anions by 300.0 - Nitrate	80		80-120			3.4	3.8	11 (1)	20
Batch number: 11150373203B	Sample number(s): 6294843-6294852 UNSPK: 6294843 BKG: 6294843								
11a Anions by 300.0 - Fluoride	68*		80-120			1.1	0.80 U	200* (1)	20
11a Anions by 300.0 - Nitrate	78*		80-120			0.87 J	0.83 J	5 (1)	20
Batch number: 11151102201A	Sample number(s): 6294849-6294851 UNSPK: P296047 BKG: P296047								
17a Cyanide by 9012B	106		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11145039402A	Sample number(s): 6294833-6294841 BKG: 6294833								
18a pH by 9045C						8.07	8.05	0	3
Batch number: 11145039402B	Sample number(s): 6294842-6294852 BKG: 6294852								
18a pH by 9045C						7.82	7.81	0	3
Batch number: 11152162401B	Sample number(s): 6294846 BKG: P292005								
Moisture Content by 160.3						14.1	13.3	6	20
Batch number: 11167162401A	Sample number(s): 6294833-6294845,6294847-6294848 BKG: 6294848								
Moisture Content by 160.3						13.6	12.8	6	20
Batch number: 11167162401B	Sample number(s): 6294849-6294852 BKG: 6294851								
Moisture Content by 160.3						12.6	13.3	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6294848	101	101	99	95
6294849	101	101	100	96
6294850	100	100	99	96
6294851	101	98	100	96
6294852	101	101	98	96
Blank	101	102	100	96
LCS	102	102	102	101
LCSD	100	100	102	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111431AA

	Toluene-d8
6294853	100
Blank	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

LCS	100
LCSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111441AA

	Toluene-d8
6294848	97
6294849	97
6294850	97
6294851	97
6294852	97
Blank	97
LCS	98
LCSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6294853	105	101	101	100
Blank	105	101	101	100
LCS	104	104	103	104
LCSD	104	100	102	103
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11143SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6294833	83	81	89	74	80	80
6294835	94	89	83	83	87	90
6294837	84	81	80	81	86	85
6294838	89	88	85	84	87	86
6294839	94	89	88	84	88	89
6294840	85	86	85	85	91	82
6294841	86	85	92	85	90	85
6294842	86	87	83	85	90	84
6294843	83	80	74	83	89	81
6294844	87	84	89	84	89	85
6294845	88	84	84	82	85	79
6294846	87	85	93	86	90	80
6294847	81	81	87	83	88	76
6294848	81	80	86	82	85	80
6294849	84	83	88	83	88	79
6294850	80	80	86	80	85	76
6294851	82	83	89	85	88	80
6294852	83	83	92	83	88	78
Blank	87	88	93	80	84	87
LCS	93	94	94	82	83	91
MS	91	89	95	80	84	92
MSD	92	88	96	80	80	87

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11143SLI026

	N-Nitrosodimethylamine-d6
6294833	87
6294834	140
6294835	116
6294836	118
6294837	109
6294838	83
6294839	91
6294840	87
6294841	96
6294842	93
6294843	127
6294844	106
6294845	105
6294847	94
6294848	92
6294849	76
6294850	84
6294851	73
Blank	82
LCS	83
MS	102
MSD	79
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11145SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6294836	102	96	102	86	84	83
Blank	91	90	101	84	84	76
LCS	90	86	91	74	69	72
MS	101	94	104	85	83	90
MSD	103	95	104	86	84	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11145SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6294833	110	104	112
6294834	95	91	98
6294835	99	91	99
6294836	106	95	94
6294837	101	91	97
6294838	101	90	103
6294839	91	79	104
6294840	92	83	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

6294841	87	80	100
6294842	100	88	102
6294843	95	86	107
6294844	106	88	89
6294845	100	89	113
6294846	96	81	79
6294847	104	85	90
6294848	90	75	89
6294849	95	81	91
6294850	103	89	94
6294851	94	79	91
6294852	94	87	95
Blank	104	98	112
LCS	108	100	105
MS	94	87	96
MSD	105	99	101
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11152SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6294834	90	90	95	84	93	87
Blank	86	85	93	83	89	80
LCS	87	86	98	84	87	84
MS	94	92	103	89	93	83
MSD	86	86	98	87	89	79
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11139A34A

	Trifluorotoluene-F
6294848	73
6294849	72
6294850	73
6294851	65
Blank	81
LCS	88
LCSD	86
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11146A20A

	Trifluorotoluene-F
6294853	70
Blank	71
LCS	112
LCSD	107
Limits:	63-135

Analysis Name: 13a Herbicides by EPA 8151

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

Batch number: 111440021A

	2,4-Dichlorophenylacetic acid
6294833	96
6294834	97
6294835	88
6294836	97
6294837	75
6294838	95
6294839	93
6294840	103
6294841	114
6294842	109
6294843	110
6294844	103
6294845	96
6294846	128
6294847	149
Blank	75
LCS	97
MS	104
MSD	98
Limits:	36-156

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111450002A

	Butyraldehyde
6294833	120
6294834	128*
6294835	126
6294836	122
6294837	111
6294838	122
6294839	114
6294840	116
6294841	115
6294842	114
6294843	97
6294844	111
6294845	103
6294847	120
6294848	107
6294849	97
6294850	79
6294851	103
Blank	114
LCS	141*
MS	124
MSD	126
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111460004A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

	2-Nitro-m-xylene
6294833	90
6294834	103
6294835	106
6294836	102
6294837	108
6294838	105
6294839	121
6294840	110
6294841	123
6294842	129
6294843	96
6294844	112
6294845	109
6294847	104
6294848	116
6294849	101
6294850	101
6294851	135
6294852	121
Blank	130
LCS	113
LCSD	111
MS	112
MSD	105
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111460022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6294833	119	107
6294834	126	99
6294835	113	84
6294836	123	76
6294837	120	92
6294838	103	86
6294839	125	104
6294840	115	52
6294841	121	90
6294842	119	39*
6294843	112	91
6294844	114	91
6294845	124	110
6294846	111	85
6294847	104	81
6294848	117	100
6294849	115	96
6294850	118	96
6294851	115	100
6294852	116	103
Blank	118	103
LCS	116	100
LCSD	116	99
MS	122	100
MSD	122	103

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 111460023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6294833	81	88
6294834	76	91
6294835	76	80
6294836	77	76
6294837	84	91
6294838	91	93
6294839	89	63
6294840	71	84
6294841	75	112
6294842	68	82
6294843	74	79
6294844	79	93
6294845	67	90
6294846	74	81
6294847	85	88
Blank	81	113
LCS	91	110
MS	79	83
MSD	74	83
Limits:	50-130	20-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111440003A

	Tetramethylene glycol
6294833	91
6294834	92
6294835	105
6294836	128
6294837	124
6294838	123
6294839	115
6294840	122
6294841	130
6294842	124
6294843	120
6294844	116
Blank	90
LCS	94
MS	91
MSD	92
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111440043A

	Acetone
6294833	80

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

6294834	73
6294835	72
6294836	71
6294837	71
6294838	70
6294839	70
6294840	71
6294841	71
6294842	70
6294843	69
6294844	69
6294845	72
6294847	75
6294848	76
6294849	73
6294850	71
6294851	73
Blank	89
LCS	88
MS	75
MSD	76

Limits: 42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111450001A
Tetramethylene glycol

6294845	70
6294847	91
6294848	85
6294849	81
6294850	85
6294851	83
Blank	90
LCS	98
MS	86
MSD	85

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111460029A
n-Triacontane-d62

6294833	101
6294834	80
6294835	68
6294836	87
6294837	148
6294838	84
6294839	99
6294840	83
6294841	99
6294842	103
6294843	72
6294844	110
6294845	106

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248037
Reported: 06/22/11 at 11:46 AM

Surrogate Quality Control

6294847	16*
6294848	86
6294849	87
6294850	84
6294851	93
Blank	88
LCS	86
MS	92
MSD	98
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111470002A

	Chlorobenzene	Orthoterphenyl
6294833	97	110
6294834	70	85
6294835	53	77
6294836	76	87
6294837	71	86
6294838	73	88
6294839	85	95
6294840	64	85
6294841	73	92
6294842	75	94
6294843	76	104
6294844	71	91
6294845	71	94
6294847	67	109
6294848	63	76
6294849	59	84
6294850	71	96
6294851	70	88
Blank	94	107
LCS	83	101
MS	87	104
MSD	96	112
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1248037 sample#6294833-53

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-020-SA5DN-SS-0.0-0.5	5/20/11	1520	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-020-SA5DN-SS-0.0-0.5	5/20/11	1520	SOIL	NONE	1-SS sleeve			X	X																	
SL-024-SA5DN-SS-0.0-0.5	5/20/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-024-SA5DN-SS-0.0-0.5	5/20/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-025-SA5DN-SS-0.0-0.5	5/20/11	1325	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SS-0.0-0.5	5/20/11	1325	SOIL	NONE	1-SS sleeve			X	X																	
SL-026-SA5DN-SS-0.0-0.5	5/20/11	1140	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SS-0.0-0.5	5/20/11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-027-SA5DN-SS-0.0-0.5	5/20/11	1405	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SS-0.0-0.5	5/20/11	1405	SOIL	NONE	1-SS sleeve			X	X																	
SL-028-SA5DN-SS-0.0-0.5	5/20/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SS-0.0-0.5	5/20/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-029-SA5DN-SS-0.0-0.5	5/20/11	1500	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-029-SA5DN-SS-0.0-0.5	5/20/11	1500	SOIL	NONE	1-SS sleeve			X	X																	
SL-036-SA5DN-SS-0.0-0.5	5/20/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SS-0.0-0.5	5/20/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-037-SA5DN-SS-0.0-0.5	5/20/11	1115	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SS-0.0-0.5	5/20/11	1115	SOIL	NONE	1-SS sleeve			X	X																	
SL-038-SA5DN-SS-0.0-0.5	5/20/11	1055	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SS-0.0-0.5	5/20/11	1055	SOIL	NONE	1-SS sleeve			X	X																	
SL-039-SA5DN-SS-0.0-0.5	5/20/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SS-0.0-0.5	5/20/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-040-SA5DN-SS-0.0-0.5	5/20/11	1040	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SS-0.0-0.5	5/20/11	1040	SOIL	NONE	1-SS sleeve			X	X																	
SL-044-SA5DN-SS-0.0-0.5	5/20/11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-044-SA5DN-SS-0.0-0.5	5/20/11	1440	SOIL	NONE	1-SS sleeve			X	X																	
SL-050-SA5DN-SS-0.0-0.5	5/20/11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-050-SA5DN-SS-0.0-0.5	5/20/11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-051-SA5DN-SS-0.0-0.5	5/20/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-051-SA5DN-SS-0.0-0.5	5/20/11	0915	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/20/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/21/11 / 0935	8695 1441 7939; 8695 1441 7940 8695 1441 7950	

acct# 13013 Cap# 1248037 sample# 6294833-53

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										
SL-064-SA5DN-SB-4.5	5/20/11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-064-SA5DN-SB-4.0-5.0	5/20/11	1134	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-065-SA5DN-SB-4.5	5/20/11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-065-SA5DN-SB-4.0-5.0	5/20/11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-065-SA5DN-SB-7.5	5/20/11	1048	SOIL	NONE	5-Encores										X	X	X										
SL-065-SA5DN-SB-7.0-8.0	5/20/11	1052	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-086-SA5DN-SB-4.5	5/20/11	1530	SOIL	NONE	5-Encores										X	X	X										
SL-086-SA5DN-SB-4.0-5.0	5/20/11	1535	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-088-SA5DN-SB-4.5	5/20/11	1400	SOIL	NONE	5-Encores										X	X											*1 extra encore was collected*
SL-088-SA5DN-SB-4.0-5.0	5/20/11	1404	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X								X					
TB-052011	5/20/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 05/20/2011 / 1700 — Received for Laboratory by: (*Signature*)

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time: 5/21/11 0935 — Airbill No.(s): 8695 1441 7939; 8695 1441 7940 8695 1441 7950

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/21/2011
Group Number: 1248038
SDG: DX085
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-020-SA5DN-SS-0.0-0.5 Soil	6294854
SL-024-SA5DN-SS-0.0-0.5 Soil	6294855
SL-025-SA5DN-SS-0.0-0.5 Soil	6294856
SL-026-SA5DN-SS-0.0-0.5 Soil	6294857
SL-027-SA5DN-SS-0.0-0.5 Soil	6294858
SL-028-SA5DN-SS-0.0-0.5 Soil	6294859
SL-029-SA5DN-SS-0.0-0.5 Soil	6294860
SL-036-SA5DN-SS-0.0-0.5 Soil	6294861
SL-037-SA5DN-SS-0.0-0.5 Soil	6294862
SL-038-SA5DN-SS-0.0-0.5 Soil	6294863
SL-039-SA5DN-SS-0.0-0.5 Soil	6294864

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294854
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8510 SDG#: DX085-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294854
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8510 SDG#: DX085-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0537 JBQ	0.0240	1.03	1
11031	12378-PeCDD	40321-76-4	0.188 JB	0.0301	5.17	1
11031	123478-HxCDD	39227-28-6	0.117 JBQ	0.0269	5.17	1
11031	123678-HxCDD	57653-85-7	0.345 JBQ	0.0276	5.17	1
11031	123789-HxCDD	19408-74-3	0.343 JBQ	0.0268	5.17	1
11031	1234678-HpCDD	35822-46-9	5.34 B	0.0354	5.17	1
11031	OCDD	3268-87-9	59.5 B	0.0334	10.3	1
11031	2378-TCDF	51207-31-9	0.0702 U	0.0702	1.03	1
11031	12378-PeCDF	57117-41-6	0.450 JB	0.0344	5.17	1
11031	23478-PeCDF	57117-31-4	0.389 JB	0.0337	5.17	1
11031	123478-HxCDF	70648-26-9	0.749 JB	0.0350	5.17	1
11031	123678-HxCDF	57117-44-9	0.218 JB	0.0302	5.17	1
11031	123789-HxCDF	72918-21-9	0.217 JBQ	0.0391	5.17	1
11031	234678-HxCDF	60851-34-5	0.239 JB	0.0322	5.17	1
11031	1234678-HpCDF	67562-39-4	0.958 JB	0.0150	5.17	1
11031	1234789-HpCDF	55673-89-7	0.121 JBQ	0.0204	5.17	1
11031	OCDF	39001-02-0	1.86 JB	0.0280	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294854
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8510 SDG#: DX085-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294854
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:20

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8510 SDG#: DX085-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 16:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294855
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8511 SDG#: DX085-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294855
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8511 SDG#: DX085-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0736	JB	0.0198	1.13	1
11031	12378-PeCDD	40321-76-4	0.378	JBQ	0.0362	5.63	1
11031	123478-HxCDD	39227-28-6	1.08	JB	0.0578	5.63	1
11031	123678-HxCDD	57653-85-7	5.83	B	0.0636	5.63	1
11031	123789-HxCDD	19408-74-3	2.75	JB	0.0585	5.63	1
11031	1234678-HpCDD	35822-46-9	396	B	0.134	5.63	1
11031	OCDD	3268-87-9	4,160	B	0.137	11.3	1
11031	2378-TCDF	51207-31-9	0.181	JB	0.0520	1.13	1
11031	12378-PeCDF	57117-41-6	0.219	JBQ	0.0211	5.63	1
11031	23478-PeCDF	57117-31-4	0.0203	U	0.0203	5.63	1
11031	123478-HxCDF	70648-26-9	0.467	JBQ	0.0309	5.63	1
11031	123678-HxCDF	57117-44-9	0.409	JB	0.0276	5.63	1
11031	123789-HxCDF	72918-21-9	0.436	JB	0.0312	5.63	1
11031	234678-HxCDF	60851-34-5	0.430	JB	0.0265	5.63	1
11031	1234678-HpCDF	67562-39-4	11.3	B	0.0298	5.63	1
11031	1234789-HpCDF	55673-89-7	1.15	JB	0.0407	5.63	1
11031	OCDF	39001-02-0	35.9	B	0.0304	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294855
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8511 SDG#: DX085-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-024-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294855
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8511 SDG#: DX085-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 17:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294856
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8512 SDG#: DX085-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294856
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8512 SDG#: DX085-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0469	JB	0.0265	1.13	1
11031	12378-PeCDD	40321-76-4	0.317	JB	0.0411	5.65	1
11031	123478-HxCDD	39227-28-6	0.749	JB	0.0575	5.65	1
11031	123678-HxCDD	57653-85-7	4.67	JB	0.0591	5.65	1
11031	123789-HxCDD	19408-74-3	2.18	JB	0.0578	5.65	1
11031	1234678-HpCDD	35822-46-9	278	B	0.146	5.65	1
11031	OCDD	3268-87-9	3,370	B	0.134	11.3	1
11031	2378-TCDF	51207-31-9	0.0934	JB	0.0713	1.13	1
11031	12378-PeCDF	57117-41-6	0.300	JB	0.0269	5.65	1
11031	23478-PeCDF	57117-31-4	0.244	JB	0.0299	5.65	1
11031	123478-HxCDF	70648-26-9	0.462	JB	0.0387	5.65	1
11031	123678-HxCDF	57117-44-9	0.389	JBQ	0.0325	5.65	1
11031	123789-HxCDF	72918-21-9	0.464	JB	0.0520	5.65	1
11031	234678-HxCDF	60851-34-5	0.496	JB	0.0391	5.65	1
11031	1234678-HpCDF	67562-39-4	8.31	B	0.0369	5.65	1
11031	1234789-HpCDF	55673-89-7	0.852	JB	0.0714	5.65	1
11031	OCDF	39001-02-0	21.7	B	0.0558	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-025-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294856
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8512 SDG#: DX085-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-025-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294856
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 13:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8512 SDG#: DX085-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 18:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294857
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8513 SDG#: DX085-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294857
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8513 SDG#: DX085-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0247	U	0.0247	1.11	1
11031	12378-PeCDD	40321-76-4	0.179	JB	0.0339	5.53	1
11031	123478-HxCDD	39227-28-6	0.310	JB	0.0373	5.53	1
11031	123678-HxCDD	57653-85-7	1.34	JB	0.0398	5.53	1
11031	123789-HxCDD	19408-74-3	1.03	JB	0.0383	5.53	1
11031	1234678-HpCDD	35822-46-9	64.5	B	0.0711	5.53	1
11031	OCDD	3268-87-9	804	B	0.0716	11.1	1
11031	2378-TCDF	51207-31-9	0.0801	JB	0.0638	1.11	1
11031	12378-PeCDF	57117-41-6	0.263	JBQ	0.0252	5.53	1
11031	23478-PeCDF	57117-31-4	0.205	JB	0.0252	5.53	1
11031	123478-HxCDF	70648-26-9	0.573	JB	0.0275	5.53	1
11031	123678-HxCDF	57117-44-9	0.180	JBQ	0.0229	5.53	1
11031	123789-HxCDF	72918-21-9	0.637	JB	0.0334	5.53	1
11031	234678-HxCDF	60851-34-5	0.205	JB	0.0262	5.53	1
11031	1234678-HpCDF	67562-39-4	2.41	JB	0.0258	5.53	1
11031	1234789-HpCDF	55673-89-7	0.267	JB	0.0451	5.53	1
11031	OCDF	39001-02-0	6.68	JB	0.0373	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294857
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8513 SDG#: DX085-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-026-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294857
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:40

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8513 SDG#: DX085-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 19:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294858
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8514 SDG#: DX085-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294858
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8514 SDG#: DX085-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	JBQ	0.0303	1.16	1
11031	12378-PeCDD	40321-76-4	0.313	JB	0.0415	5.80	1
11031	123478-HxCDD	39227-28-6	0.235	JB	0.0383	5.80	1
11031	123678-HxCDD	57653-85-7	0.787	JB	0.0411	5.80	1
11031	123789-HxCDD	19408-74-3	0.829	JB	0.0396	5.80	1
11031	1234678-HpCDD	35822-46-9	19.1	B	0.0620	5.80	1
11031	OCDD	3268-87-9	246	B	0.0832	11.6	1
11031	2378-TCDF	51207-31-9	0.237	JB	0.0696	1.16	1
11031	12378-PeCDF	57117-41-6	0.299	JB	0.0374	5.80	1
11031	23478-PeCDF	57117-31-4	0.391	JB	0.0365	5.80	1
11031	123478-HxCDF	70648-26-9	1.08	JB	0.0386	5.80	1
11031	123678-HxCDF	57117-44-9	0.169	JBQ	0.0347	5.80	1
11031	123789-HxCDF	72918-21-9	0.464	JB	0.0424	5.80	1
11031	234678-HxCDF	60851-34-5	0.243	JB	0.0362	5.80	1
11031	1234678-HpCDF	67562-39-4	1.58	JB	0.0282	5.80	1
11031	1234789-HpCDF	55673-89-7	0.211	JB	0.0364	5.80	1
11031	OCDF	39001-02-0	4.60	JB	0.0331	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294858
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8514 SDG#: DX085-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294858
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:05

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8514 SDG#: DX085-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 20:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294859
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8515 SDG#: DX085-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294859
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8515 SDG#: DX085-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0746	JB	0.0234	1.14	1
11031	12378-PeCDD	40321-76-4	0.289	JB	0.0330	5.72	1
11031	123478-HxCDD	39227-28-6	0.279	JBQ	0.0299	5.72	1
11031	123678-HxCDD	57653-85-7	0.596	JB	0.0317	5.72	1
11031	123789-HxCDD	19408-74-3	0.639	JB	0.0309	5.72	1
11031	1234678-HpCDD	35822-46-9	10.8	B	0.0409	5.72	1
11031	OCDD	3268-87-9	149	B	0.0455	11.4	1
11031	2378-TCDF	51207-31-9	0.265	JB	0.0541	1.14	1
11031	12378-PeCDF	57117-41-6	0.596	JB	0.0275	5.72	1
11031	23478-PeCDF	57117-31-4	0.445	JB	0.0287	5.72	1
11031	123478-HxCDF	70648-26-9	0.545	JB	0.0287	5.72	1
11031	123678-HxCDF	57117-44-9	0.282	JBQ	0.0244	5.72	1
11031	123789-HxCDF	72918-21-9	0.471	JB	0.0331	5.72	1
11031	234678-HxCDF	60851-34-5	0.262	JB	0.0268	5.72	1
11031	1234678-HpCDF	67562-39-4	1.32	JB	0.0211	5.72	1
11031	1234789-HpCDF	55673-89-7	0.208	JB	0.0328	5.72	1
11031	OCDF	39001-02-0	3.12	JB	0.0334	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294859
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8515 SDG#: DX085-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294859
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:25

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8515 SDG#: DX085-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/04/2011 21:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-029-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294860
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:00

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8516 SDG#: DX085-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294860
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:00

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8516 SDG#: DX085-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.115	JB	0.0230	1.15	1
11031	12378-PeCDD	40321-76-4	0.533	JBQ	0.0351	5.73	1
11031	123478-HxCDD	39227-28-6	0.383	JBQ	0.0376	5.73	1
11031	123678-HxCDD	57653-85-7	0.714	JB	0.0407	5.73	1
11031	123789-HxCDD	19408-74-3	0.723	JB	0.0400	5.73	1
11031	1234678-HpCDD	35822-46-9	12.7	B	0.0513	5.73	1
11031	OCDD	3268-87-9	173	B	0.0764	11.5	1
11031	2378-TCDF	51207-31-9	0.246	JBQ	0.0489	1.15	1
11031	12378-PeCDF	57117-41-6	0.604	JB	0.0288	5.73	1
11031	23478-PeCDF	57117-31-4	0.532	JB	0.0276	5.73	1
11031	123478-HxCDF	70648-26-9	0.649	JB	0.0314	5.73	1
11031	123678-HxCDF	57117-44-9	0.416	JB	0.0298	5.73	1
11031	123789-HxCDF	72918-21-9	0.534	JB	0.0351	5.73	1
11031	234678-HxCDF	60851-34-5	0.323	JB	0.0310	5.73	1
11031	1234678-HpCDF	67562-39-4	1.47	JB	0.0214	5.73	1
11031	1234789-HpCDF	55673-89-7	0.254	JBQ	0.0286	5.73	1
11031	OCDF	39001-02-0	3.16	JB	0.0307	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294860
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:00

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8516 SDG#: DX085-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294860
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:00

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8516 SDG#: DX085-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/05/2011 03:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294861
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8517 SDG#: DX085-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294861
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8517 SDG#: DX085-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0627	JBQ	0.0316	1.11	1
11031	12378-PeCDD	40321-76-4	0.280	JB	0.0487	5.56	1
11031	123478-HxCDD	39227-28-6	0.908	JB	0.0673	5.56	1
11031	123678-HxCDD	57653-85-7	6.77	B	0.0698	5.56	1
11031	123789-HxCDD	19408-74-3	2.51	JB	0.0688	5.56	1
11031	1234678-HpCDD	35822-46-9	465	B	0.189	5.56	1
11031	OCDD	3268-87-9	5,140	EB	0.180	11.1	1
11031	2378-TCDF	51207-31-9	0.428	JBQ	0.117	1.11	1
11031	12378-PeCDF	57117-41-6	0.351	JBQ	0.0369	5.56	1
11031	23478-PeCDF	57117-31-4	0.463	JB	0.0371	5.56	1
11031	123478-HxCDF	70648-26-9	0.973	JB	0.0436	5.56	1
11031	123678-HxCDF	57117-44-9	0.634	JB	0.0392	5.56	1
11031	123789-HxCDF	72918-21-9	0.526	JB	0.0506	5.56	1
11031	234678-HxCDF	60851-34-5	0.596	JB	0.0420	5.56	1
11031	1234678-HpCDF	67562-39-4	11.9	B	0.0417	5.56	1
11031	1234789-HpCDF	55673-89-7	1.29	JB	0.0692	5.56	1
11031	OCDF	39001-02-0	31.7	B	0.0462	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294861
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8517 SDG#: DX085-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294861
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:45

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8517 SDG#: DX085-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/05/2011 04:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294862
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8518 SDG#: DX085-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294862
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8518 SDG#: DX085-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0707	JB	0.0197	1.14	1
11031	12378-PeCDD	40321-76-4	0.222	JB	0.0295	5.70	1
11031	123478-HxCDD	39227-28-6	0.360	JB	0.0353	5.70	1
11031	123678-HxCDD	57653-85-7	1.86	JB	0.0375	5.70	1
11031	123789-HxCDD	19408-74-3	1.21	JB	0.0362	5.70	1
11031	1234678-HpCDD	35822-46-9	87.5	B	0.0758	5.70	1
11031	OCDD	3268-87-9	1,060	B	0.0870	11.4	1
11031	2378-TCDF	51207-31-9	0.284	JB	0.0534	1.14	1
11031	12378-PeCDF	57117-41-6	0.226	JBQ	0.0235	5.70	1
11031	23478-PeCDF	57117-31-4	0.431	JB	0.0239	5.70	1
11031	123478-HxCDF	70648-26-9	0.459	JB	0.0276	5.70	1
11031	123678-HxCDF	57117-44-9	0.225	JB	0.0247	5.70	1
11031	123789-HxCDF	72918-21-9	0.592	JB	0.0290	5.70	1
11031	234678-HxCDF	60851-34-5	0.282	JB	0.0230	5.70	1
11031	1234678-HpCDF	67562-39-4	3.65	JB	0.0231	5.70	1
11031	1234789-HpCDF	55673-89-7	0.314	JB	0.0279	5.70	1
11031	OCDF	39001-02-0	11.4	JB	0.0266	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294862
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8518 SDG#: DX085-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294862
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:15

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8518 SDG#: DX085-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/05/2011 05:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294863
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8519 SDG#: DX085-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294863
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8519 SDG#: DX085-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0263	JB	0.0230	1.16	1
11031	12378-PeCDD	40321-76-4	0.264	JB	0.0365	5.80	1
11031	123478-HxCDD	39227-28-6	0.656	JB	0.0546	5.80	1
11031	123678-HxCDD	57653-85-7	4.00	JB	0.0592	5.80	1
11031	123789-HxCDD	19408-74-3	1.88	JB	0.0577	5.80	1
11031	1234678-HpCDD	35822-46-9	275	B	0.141	5.80	1
11031	OCDD	3268-87-9	3,320	B	0.136	11.6	1
11031	2378-TCDF	51207-31-9	0.261	JBQ	0.0744	1.16	1
11031	12378-PeCDF	57117-41-6	0.533	JB	0.0285	5.80	1
11031	23478-PeCDF	57117-31-4	0.378	JBQ	0.0308	5.80	1
11031	123478-HxCDF	70648-26-9	0.577	JB	0.0327	5.80	1
11031	123678-HxCDF	57117-44-9	0.388	JB	0.0275	5.80	1
11031	123789-HxCDF	72918-21-9	0.648	JB	0.0451	5.80	1
11031	234678-HxCDF	60851-34-5	0.489	JB	0.0332	5.80	1
11031	1234678-HpCDF	67562-39-4	8.55	B	0.0243	5.80	1
11031	1234789-HpCDF	55673-89-7	0.877	JB	0.0465	5.80	1
11031	OCDF	39001-02-0	21.7	B	0.0436	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	60	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	57	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294863
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8519 SDG#: DX085-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294863
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:55

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8519 SDG#: DX085-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/05/2011 06:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294864
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8520 SDG#: DX085-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294864
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8520 SDG#: DX085-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0397	JBQ	0.0237	1.15	1
11031	12378-PeCDD	40321-76-4	0.252	JBQ	0.0389	5.77	1
11031	123478-HxCDD	39227-28-6	0.710	JB	0.0458	5.77	1
11031	123678-HxCDD	57653-85-7	4.97	JB	0.0495	5.77	1
11031	123789-HxCDD	19408-74-3	2.34	JB	0.0467	5.77	1
11031	1234678-HpCDD	35822-46-9	361	B	0.147	5.77	1
11031	OCDD	3268-87-9	3,830	B	0.143	11.5	1
11031	2378-TCDF	51207-31-9	0.231	JB	0.0699	1.15	1
11031	12378-PeCDF	57117-41-6	0.352	JBQ	0.0234	5.77	1
11031	23478-PeCDF	57117-31-4	0.315	JBQ	0.0261	5.77	1
11031	123478-HxCDF	70648-26-9	0.521	JB	0.0336	5.77	1
11031	123678-HxCDF	57117-44-9	0.438	JB	0.0266	5.77	1
11031	123789-HxCDF	72918-21-9	0.604	JB	0.0479	5.77	1
11031	234678-HxCDF	60851-34-5	0.490	JB	0.0328	5.77	1
11031	1234678-HpCDF	67562-39-4	9.06	B	0.0237	5.77	1
11031	1234789-HpCDF	55673-89-7	1.08	JB	0.0576	5.77	1
11031	OCDF	39001-02-0	23.5	B	0.0382	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294864
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8520 SDG#: DX085-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294864
LLI Group # 1248038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:10

Submitted: 05/21/2011 09:35
Reported: 06/17/2011 07:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8520 SDG#: DX085-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11148001	06/05/2011 07:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11148001	05/28/2011 10:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248038
Reported: 06/17/11 at 07:01 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11167162401A	Sample number(s): 6294854-6294864								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11148001	Sample number(s): 6294854-6294864								
2378-TCDD	0.0875 J	0.0217	1.00	ng/kg	97		67-158		
12378-PeCDD	0.107 J	0.0205	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0860 J	0.0153	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0968 J	0.0163	5.00	ng/kg	104		76-134		
123789-HxCDD	0.109 J	0.0156	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.291 J	0.0176	5.00	ng/kg	100		70-140		
OCDD	0.555 J	0.0115	10.0	ng/kg	100		78-144		
2378-TCDF	0.0262 J	0.0261	1.00	ng/kg	114		75-158		
12378-PeCDF	0.110 J	0.0126	5.00	ng/kg	101		80-134		
23478-PeCDF	0.168 J	0.0129	5.00	ng/kg	102		68-160		
123478-HxCDF	0.149 J	0.0170	5.00	ng/kg	102		72-134		
123678-HxCDF	0.118 J	0.0128	5.00	ng/kg	100		84-130		
123789-HxCDF	0.230 J	0.0228	5.00	ng/kg	100		78-130		
234678-HxCDF	0.165 J	0.0155	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.196 J	0.00630	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.166 J	0.0152	5.00	ng/kg	102		78-138		
OCDF	0.516 J	0.0284	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11167162401A	Sample number(s): 6294854-6294864					BKG: P294848			
Moisture Content by 160.3						13.6	12.8	6	20
Batch number: 11148001	Sample number(s): 6294854-6294864					UNSPK: P292049			
2378-TCDD	97	96	67-158	1	25				
12378-PeCDD	99	101	70-142	2	25				
123478-HxCDD	100	99	70-164	0	25				
123678-HxCDD	102	101	76-134	1	25				
123789-HxCDD	102	101	64-162	0	25				
1234678-HpCDD	97	98	70-140	2	25				
OCDD	66*	74*	78-144	8	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248038
Reported: 06/17/11 at 07:01 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	114	110	75-158	3	25				
12378-PeCDF	103	101	80-134	2	25				
23478-PeCDF	101	101	68-160	0	25				
123478-HxCDF	99	99	72-134	0	25				
123678-HxCDF	99	98	84-130	1	25				
123789-HxCDF	103	100	78-130	2	25				
234678-HxCDF	103	102	70-156	1	25				
1234678-HpCDF	99	97	82-122	2	25				
1234789-HpCDF	103	101	78-138	2	25				
OCDF	101	100	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11148001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6294854	66	72	64	68	66	63
6294855	75	77	68	73	72	73
6294856	68	68	60	71	61	51
6294857	67	74	59	68	61	55
6294858	74	81	67	72	71	68
6294859	75	79	70	77	71	65
6294860	79	81	75	77	77	75
6294861	74	76	69	76	70	66
6294862	76	79	64	69	70	68
6294863	62	67	59	67	57	48
6294864	67	73	61	74	60	48
Blank	61	61	56	73	60	48
MS	62	66	63	79	68	53
MSD	63	65	60	75	64	51
OPR	57	57	52	67	57	49
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6294854	76	64	61	74	73	67
6294855	80	68	64	87	80	74
6294856	90	52	48	85	78	68
6294857	82	55	52	84	78	66
6294858	81	69	66	83	82	71
6294859	88	63	58	92	82	73
6294860	77	69	62	89	80	76
6294861	91	61	56	87	80	73
6294862	70	65	59	89	79	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248038
Reported: 06/17/11 at 07:01 AM

Surrogate Quality Control

6294863	78	45	40	87	72	60
6294864	89	44	36	86	80	65
Blank	98	48	45	89	74	73
MS	106	56	53	87	78	81
MSD	99	53	50	87	75	75
OPR	92	46	44	79	67	69
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6294854	68	69	70	69	65	74
6294855	72	75	75	74	74	81
6294856	70	68	73	72	62	82
6294857	66	66	70	68	63	80
6294858	71	71	76	73	72	83
6294859	73	74	74	71	72	87
6294860	76	76	73	66	80	83
6294861	75	75	77	73	71	85
6294862	69	71	68	64	76	84
6294863	60	60	60	57	59	75
6294864	65	66	66	61	65	84
Blank	73	74	78	79	49	71
MS	80	81	85	86	54	77
MSD	75	75	79	78	56	77
OPR	68	68	73	73	49	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1248038 sample# 6294854-64

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-020-SA5DN-SS-0.0-0.5	5/20/11	1520	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-020-SA5DN-SS-0.0-0.5	5/20/11	1520	SOIL	NONE	1-SS sleeve			X	X																	
SL-024-SA5DN-SS-0.0-0.5	5/20/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-024-SA5DN-SS-0.0-0.5	5/20/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-025-SA5DN-SS-0.0-0.5	5/20/11	1325	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SS-0.0-0.5	5/20/11	1325	SOIL	NONE	1-SS sleeve			X	X																	
SL-026-SA5DN-SS-0.0-0.5	5/20/11	1140	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SS-0.0-0.5	5/20/11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-027-SA5DN-SS-0.0-0.5	5/20/11	1405	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SS-0.0-0.5	5/20/11	1405	SOIL	NONE	1-SS sleeve			X	X																	
SL-028-SA5DN-SS-0.0-0.5	5/20/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SS-0.0-0.5	5/20/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-029-SA5DN-SS-0.0-0.5	5/20/11	1500	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-029-SA5DN-SS-0.0-0.5	5/20/11	1500	SOIL	NONE	1-SS sleeve			X	X																	
SL-036-SA5DN-SS-0.0-0.5	5/20/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SS-0.0-0.5	5/20/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-037-SA5DN-SS-0.0-0.5	5/20/11	1115	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SS-0.0-0.5	5/20/11	1115	SOIL	NONE	1-SS sleeve			X	X																	
SL-038-SA5DN-SS-0.0-0.5	5/20/11	1055	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SS-0.0-0.5	5/20/11	1055	SOIL	NONE	1-SS sleeve			X	X																	
SL-039-SA5DN-SS-0.0-0.5	5/20/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SS-0.0-0.5	5/20/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-040-SA5DN-SS-0.0-0.5	5/20/11	1040	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SS-0.0-0.5	5/20/11	1040	SOIL	NONE	1-SS sleeve			X	X																	
SL-044-SA5DN-SS-0.0-0.5	5/20/11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-044-SA5DN-SS-0.0-0.5	5/20/11	1440	SOIL	NONE	1-SS sleeve			X	X																	
SL-050-SA5DN-SS-0.0-0.5	5/20/11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-050-SA5DN-SS-0.0-0.5	5/20/11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-051-SA5DN-SS-0.0-0.5	5/20/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-051-SA5DN-SS-0.0-0.5	5/20/11	0915	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/20/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/21/11 / 0735	8695 1441 7939; 8695 1441 7940 8695 1441 7950	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/21/2011
Group Number: 1248039
SDG: DX086
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-040-SA5DN-SS-0.0-0.5 Soil	6294865
SL-044-SA5DN-SS-0.0-0.5 Soil	6294866
SL-050-SA5DN-SS-0.0-0.5 Soil	6294867
SL-051-SA5DN-SS-0.0-0.5 Soil	6294868
SL-064-SA5DN-SB-4.0-5.0 Soil	6294869
SL-065-SA5DN-SB-4.0-5.0 Soil	6294870
SL-065-SA5DN-SB-7.0-8.0 Soil	6294871
SL-086-SA5DN-SB-4.0-5.0 Soil	6294872
SL-088-SA5DN-SB-4.0-5.0 Soil	6294873

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294865
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8610 SDG#: DX086-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294865
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8610 SDG#: DX086-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0210	JQ	0.0165	1.16	1
11031	12378-PeCDD	40321-76-4	0.197	JB	0.0279	5.79	1
11031	123478-HxCDD	39227-28-6	0.648	JBQ	0.0952	5.79	1
11031	123678-HxCDD	57653-85-7	3.93	JB	0.0953	5.79	1
11031	123789-HxCDD	19408-74-3	1.88	JB	0.0863	5.79	1
11031	1234678-HpCDD	35822-46-9	265	B	0.207	5.79	1
11031	OCDD	3268-87-9	3,420	B	0.188	11.6	1
11031	2378-TCDF	51207-31-9	0.208	JB	0.0509	1.16	1
11031	12378-PeCDF	57117-41-6	0.0893	JBQ	0.0258	5.79	1
11031	23478-PeCDF	57117-31-4	0.239	JBQ	0.0271	5.79	1
11031	123478-HxCDF	70648-26-9	0.149	JB	0.0627	5.79	1
11031	123678-HxCDF	57117-44-9	0.258	JB	0.0534	5.79	1
11031	123789-HxCDF	72918-21-9	0.459	JB	0.0475	5.79	1
11031	234678-HxCDF	60851-34-5	0.264	JB	0.0394	5.79	1
11031	1234678-HpCDF	67562-39-4	9.21	B	0.0654	5.79	1
11031	1234789-HpCDF	55673-89-7	0.662	JB	0.0808	5.79	1
11031	OCDF	39001-02-0	26.9	B	0.0720	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294865
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8610 SDG#: DX086-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294865
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8610 SDG#: DX086-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160001	06/13/2011 17:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11160001	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294866
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8611 SDG#: DX086-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294866
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8611 SDG#: DX086-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0661	JB	0.0175	1.11	1
11031	12378-PeCDD	40321-76-4	0.136	JBQ	0.0276	5.56	1
11031	123478-HxCDD	39227-28-6	0.203	JBQ	0.0321	5.56	1
11031	123678-HxCDD	57653-85-7	0.853	JB	0.0334	5.56	1
11031	123789-HxCDD	19408-74-3	0.664	JBQ	0.0315	5.56	1
11031	1234678-HpCDD	35822-46-9	28.1	B	0.0636	5.56	1
11031	OCDD	3268-87-9	414	B	0.0543	11.1	1
11031	2378-TCDF	51207-31-9	0.168	J	0.0526	1.11	1
11031	12378-PeCDF	57117-41-6	0.137	JB	0.0265	5.56	1
11031	23478-PeCDF	57117-31-4	0.447	JBQ	0.0240	5.56	1
11031	123478-HxCDF	70648-26-9	0.599	JB	0.0288	5.56	1
11031	123678-HxCDF	57117-44-9	0.193	JBQ	0.0264	5.56	1
11031	123789-HxCDF	72918-21-9	0.437	JB	0.0318	5.56	1
11031	234678-HxCDF	60851-34-5	0.216	JB	0.0270	5.56	1
11031	1234678-HpCDF	67562-39-4	2.30	JB	0.0202	5.56	1
11031	1234789-HpCDF	55673-89-7	0.229	JBQ	0.0268	5.56	1
11031	OCDF	39001-02-0	6.46	JB	0.0271	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294866
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8611 SDG#: DX086-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294866
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:40

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8611 SDG#: DX086-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/05/2011 22:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294867
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8612 SDG#: DX086-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294867
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8612 SDG#: DX086-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.122	JB	0.0247	1.09	1
11031	12378-PeCDD	40321-76-4	1.33	JB	0.0902	5.46	1
11031	123478-HxCDD	39227-28-6	2.21	JB	0.0977	5.46	1
11031	123678-HxCDD	57653-85-7	6.28	B	0.102	5.46	1
11031	123789-HxCDD	19408-74-3	5.08	JB	0.105	5.46	1
11031	1234678-HpCDD	35822-46-9	136	B	0.143	5.46	1
11031	OCDD	3268-87-9	1,750	B	0.220	10.9	1
11031	2378-TCDF	51207-31-9	1.93		0.213	1.09	1
11650	2378-TCDF-Conf	51207-31-9	1.32	B	0.170	1.09	1
11031	12378-PeCDF	57117-41-6	0.356	JB	0.0837	5.46	1
11031	23478-PeCDF	57117-31-4	2.08	JB	0.0791	5.46	1
11031	123478-HxCDF	70648-26-9	2.20	JB	0.0946	5.46	1
11031	123678-HxCDF	57117-44-9	1.41	JB	0.0893	5.46	1
11031	123789-HxCDF	72918-21-9	1.03	JB	0.115	5.46	1
11031	234678-HxCDF	60851-34-5	1.17	JB	0.0928	5.46	1
11031	1234678-HpCDF	67562-39-4	11.1	B	0.118	5.46	1
11031	1234789-HpCDF	55673-89-7	1.29	JBQ	0.144	5.46	1
11031	OCDF	39001-02-0	30.8	B	0.180	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	86	24 - 169
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	36	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	27	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294867
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8612 SDG#: DX086-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-050-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294867
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 08:45

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8612 SDG#: DX086-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11166001	06/16/2011 23:59	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11166001	06/18/2011 23:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11166001	06/15/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11152162401B	06/01/2011 19:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294868
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8613 SDG#: DX086-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294868
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8613 SDG#: DX086-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0159	U	0.0159	1.07	1
11031	12378-PeCDD	40321-76-4	0.316	JB	0.0384	5.36	1
11031	123478-HxCDD	39227-28-6	0.383	JB	0.0969	5.36	1
11031	123678-HxCDD	57653-85-7	1.74	JB	0.0981	5.36	1
11031	123789-HxCDD	19408-74-3	1.45	JB	0.0827	5.36	1
11031	1234678-HpCDD	35822-46-9	55.1	B	0.0716	5.36	1
11031	OCDD	3268-87-9	607	B	0.0967	10.7	1
11031	2378-TCDF	51207-31-9	0.376	JB	0.0504	1.07	1
11031	12378-PeCDF	57117-41-6	0.215	JBQ	0.0280	5.36	1
11031	23478-PeCDF	57117-31-4	0.529	JB	0.0262	5.36	1
11031	123478-HxCDF	70648-26-9	0.470	JBQ	0.0721	5.36	1
11031	123678-HxCDF	57117-44-9	0.399	JB	0.0589	5.36	1
11031	123789-HxCDF	72918-21-9	0.959	JB	0.0411	5.36	1
11031	234678-HxCDF	60851-34-5	0.305	JB	0.0364	5.36	1
11031	1234678-HpCDF	67562-39-4	3.15	JB	0.0533	5.36	1
11031	1234789-HpCDF	55673-89-7	0.245	JB	0.0458	5.36	1
11031	OCDF	39001-02-0	5.76	JB	0.0538	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	44	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294868
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8613 SDG#: DX086-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SS-0.0-0.5

LLI Sample # SW 6294868
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 09:15

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8613 SDG#: DX086-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160001	06/13/2011 19:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11160001	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294869
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8614 SDG#: DX086-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294869
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8614 SDG#: DX086-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0298 JBQ	0.0153	1.15	1
11031	12378-PeCDD	40321-76-4	0.0716 JBQ	0.0174	5.74	1
11031	123478-HxCDD	39227-28-6	0.0620 JBQ	0.0182	5.74	1
11031	123678-HxCDD	57653-85-7	0.115 JB	0.0201	5.74	1
11031	123789-HxCDD	19408-74-3	0.119 JBQ	0.0176	5.74	1
11031	1234678-HpCDD	35822-46-9	0.504 JB	0.0223	5.74	1
11031	OCDD	3268-87-9	4.59 JB	0.0282	11.5	1
11031	2378-TCDF	51207-31-9	0.0161 JQ	0.0160	1.15	1
11031	12378-PeCDF	57117-41-6	0.0909 JBQ	0.00926	5.74	1
11031	23478-PeCDF	57117-31-4	0.0984 JBQ	0.0102	5.74	1
11031	123478-HxCDF	70648-26-9	0.115 JB	0.0319	5.74	1
11031	123678-HxCDF	57117-44-9	0.0937 JB	0.0230	5.74	1
11031	123789-HxCDF	72918-21-9	0.168 JB	0.0176	5.74	1
11031	234678-HxCDF	60851-34-5	0.118 JB	0.0119	5.74	1
11031	1234678-HpCDF	67562-39-4	0.249 JBQ	0.0153	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0939 JBQ	0.0213	5.74	1
11031	OCDF	39001-02-0	0.391 JB	0.0438	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	34	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	30	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-064-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294869
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8614 SDG#: DX086-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-064-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294869
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 11:34

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8614 SDG#: DX086-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/06/2011 04:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401A	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294870
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8615 SDG#: DX086-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294870
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8615 SDG#: DX086-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0185 U	0.0185	1.12	1
11031	12378-PeCDD	40321-76-4	0.0548 JBQ	0.0285	5.62	1
11031	123478-HxCDD	39227-28-6	0.0255 U	0.0255	5.62	1
11031	123678-HxCDD	57653-85-7	0.108 JB	0.0267	5.62	1
11031	123789-HxCDD	19408-74-3	0.209 JB	0.0257	5.62	1
11031	1234678-HpCDD	35822-46-9	0.543 JB	0.0497	5.62	1
11031	OCDD	3268-87-9	1.52 JB	0.0590	11.2	1
11031	2378-TCDF	51207-31-9	0.0201 JQ	0.0157	1.12	1
11031	12378-PeCDF	57117-41-6	0.0461 JBQ	0.0135	5.62	1
11031	23478-PeCDF	57117-31-4	0.0571 JBQ	0.0139	5.62	1
11031	123478-HxCDF	70648-26-9	0.0364 JB	0.0170	5.62	1
11031	123678-HxCDF	57117-44-9	0.0143 U	0.0143	5.62	1
11031	123789-HxCDF	72918-21-9	0.231 JB	0.0214	5.62	1
11031	234678-HxCDF	60851-34-5	0.0158 U	0.0158	5.62	1
11031	1234678-HpCDF	67562-39-4	0.0447 JBQ	0.0199	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0403 U	0.0403	5.62	1
11031	OCDF	39001-02-0	0.255 JBQ	0.0806	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294870
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8615 SDG#: DX086-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-065-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294870
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:44

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8615 SDG#: DX086-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11166001	06/17/2011 00:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11166001	06/15/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

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Analysis Report

Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294871
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8616 SDG#: DX086-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294871
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8616 SDG#: DX086-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0210 U	0.0210	1.10	1
11031	12378-PeCDD	40321-76-4	0.0178 U	0.0178	5.52	1
11031	123478-HxCDD	39227-28-6	0.0156 U	0.0156	5.52	1
11031	123678-HxCDD	57653-85-7	0.0408 JBQ	0.0164	5.52	1
11031	123789-HxCDD	19408-74-3	0.0629 JBQ	0.0155	5.52	1
11031	1234678-HpCDD	35822-46-9	0.372 JB	0.0381	5.52	1
11031	OCDD	3268-87-9	0.738 JB	0.0439	11.0	1
11031	2378-TCDF	51207-31-9	0.0143 U	0.0143	1.10	1
11031	12378-PeCDF	57117-41-6	0.0187 JBQ	0.00831	5.52	1
11031	23478-PeCDF	57117-31-4	0.0430 JB	0.00952	5.52	1
11031	123478-HxCDF	70648-26-9	0.0138 JBQ	0.0123	5.52	1
11031	123678-HxCDF	57117-44-9	0.0165 JB	0.00963	5.52	1
11031	123789-HxCDF	72918-21-9	0.0522 JB	0.0165	5.52	1
11031	234678-HxCDF	60851-34-5	0.0114 U	0.0114	5.52	1
11031	1234678-HpCDF	67562-39-4	0.0291 JBQ	0.0121	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0471 JBQ	0.0358	5.52	1
11031	OCDF	39001-02-0	0.133 JBQ	0.0730	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	43	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	36	26 - 138
13C12-OCDF	25	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294871
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8616 SDG#: DX086-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5DN-SB-7.0-8.0

LLI Sample # SW 6294871
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 10:52

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8616 SDG#: DX086-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11166001	06/17/2011 01:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	3	11166001	06/15/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294872
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8617 SDG#: DX086-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294872
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8617 SDG#: DX086-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0150 U	0.0150	1.12	1
11031	12378-PeCDD	40321-76-4	0.0321 JBQ	0.0169	5.59	1
11031	123478-HxCDD	39227-28-6	0.0339 JBQ	0.0160	5.59	1
11031	123678-HxCDD	57653-85-7	0.0875 JBQ	0.0178	5.59	1
11031	123789-HxCDD	19408-74-3	0.105 JB	0.0161	5.59	1
11031	1234678-HpCDD	35822-46-9	1.00 JB	0.0206	5.59	1
11031	OCDD	3268-87-9	12.7 B	0.0230	11.2	1
11031	2378-TCDF	51207-31-9	0.0214 JQ	0.0144	1.12	1
11031	12378-PeCDF	57117-41-6	0.0458 JBQ	0.00858	5.59	1
11031	23478-PeCDF	57117-31-4	0.0602 JB	0.00950	5.59	1
11031	123478-HxCDF	70648-26-9	0.0422 JB	0.0125	5.59	1
11031	123678-HxCDF	57117-44-9	0.0396 JBQ	0.00950	5.59	1
11031	123789-HxCDF	72918-21-9	0.111 JBQ	0.0135	5.59	1
11031	234678-HxCDF	60851-34-5	0.0429 JBQ	0.00973	5.59	1
11031	1234678-HpCDF	67562-39-4	0.174 JB	0.00709	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0688 JBQ	0.0165	5.59	1
11031	OCDF	39001-02-0	0.362 JB	0.0363	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294872
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8617 SDG#: DX086-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294872
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 15:35

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8617 SDG#: DX086-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/06/2011 07:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294873
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8618 SDG#: DX086-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294873
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8618 SDG#: DX086-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0199 JBQ	0.0154	1.18	1
11031	12378-PeCDD	40321-76-4	0.0176 JB	0.0172	5.90	1
11031	123478-HxCDD	39227-28-6	0.0244 JB	0.0147	5.90	1
11031	123678-HxCDD	57653-85-7	0.0400 JBQ	0.0153	5.90	1
11031	123789-HxCDD	19408-74-3	0.0400 JBQ	0.0146	5.90	1
11031	1234678-HpCDD	35822-46-9	0.317 JBQ	0.0202	5.90	1
11031	OCDD	3268-87-9	2.39 JB	0.0206	11.8	1
11031	2378-TCDF	51207-31-9	0.0134 U	0.0134	1.18	1
11031	12378-PeCDF	57117-41-6	0.0381 JB	0.00837	5.90	1
11031	23478-PeCDF	57117-31-4	0.0710 JBQ	0.00897	5.90	1
11031	123478-HxCDF	70648-26-9	0.0412 JBQ	0.0140	5.90	1
11031	123678-HxCDF	57117-44-9	0.0402 JB	0.0103	5.90	1
11031	123789-HxCDF	72918-21-9	0.0508 JBQ	0.0127	5.90	1
11031	234678-HxCDF	60851-34-5	0.0431 JBQ	0.00837	5.90	1
11031	1234678-HpCDF	67562-39-4	0.0768 JB	0.00754	5.90	1
11031	1234789-HpCDF	55673-89-7	0.0821 JB	0.0157	5.90	1
11031	OCDF	39001-02-0	0.198 JBQ	0.0410	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294873
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8618 SDG#: DX086-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-088-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA5DN-SB-4.0-5.0

LLI Sample # SW 6294873
LLI Group # 1248039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/20/2011 14:04

Submitted: 05/21/2011 09:35
Reported: 06/22/2011 22:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X8618 SDG#: DX086-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11153002	06/06/2011 08:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11153002	06/02/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248039
Reported: 06/22/11 at 10:33 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11152162401B	Sample number(s): 6294867								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162401A	Sample number(s): 6294865-6294866,6294868-6294869								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162401B	Sample number(s): 6294870-6294873								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11153002	Sample number(s): 6294866,6294869,6294872-6294873								
2378-TCDD	0.0252 J	0.0193	1.00	ng/kg	96		67-158		
12378-PeCDD	0.0737 J	0.0192	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0425 J	0.0141	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0671 J	0.0150	5.00	ng/kg	104		76-134		
123789-HxCDD	0.0834 J	0.0147	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.270 J	0.0188	5.00	ng/kg	102		70-140		
OCDD	0.693 J	0.0118	10.0	ng/kg	100		78-144		
2378-TCDF	0.0187 U	0.0187	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0439 J	0.0108	5.00	ng/kg	103		80-134		
23478-PeCDF	0.120 J	0.0112	5.00	ng/kg	103		68-160		
123478-HxCDF	0.0952 J	0.0141	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0873 J	0.0119	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0864 J	0.0152	5.00	ng/kg	103		78-130		
234678-HxCDF	0.0909 J	0.0128	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.178 J	0.00760	5.00	ng/kg	101		82-122		
1234789-HpCDF	0.137 J	0.0134	5.00	ng/kg	102		78-138		
OCDF	0.420 J	0.0221	10.0	ng/kg	102		63-170		
Batch number: 11160001	Sample number(s): 6294865,6294868								
2378-TCDD	0.0138 U	0.0138	1.00	ng/kg	82		67-158		
12378-PeCDD	0.0141 J	0.0130	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0355 J	0.0144	5.00	ng/kg	87		70-164		
123678-HxCDD	0.0363 J	0.0150	5.00	ng/kg	87		76-134		
123789-HxCDD	0.0402 J	0.0132	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.233 J	0.0216	5.00	ng/kg	88		70-140		
OCDD	0.463 J	0.0238	10.0	ng/kg	88		78-144		
2378-TCDF	0.0157 J	0.0113	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0432 J	0.00750	5.00	ng/kg	85		80-134		
23478-PeCDF	0.0599 J	0.00810	5.00	ng/kg	85		68-160		
123478-HxCDF	0.0287 J	0.0134	5.00	ng/kg	88		72-134		
123678-HxCDF	0.0252 J	0.0104	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0730 J	0.0130	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0597 J	0.0101	5.00	ng/kg	89		70-156		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248039
Reported: 06/22/11 at 10:33 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.124	J	0.00850	5.00	ng/kg	86		82-122		
1234789-HpCDF	0.0756	J	0.0170	5.00	ng/kg	90		78-138		
OCDF	0.300	J	0.0378	10.0	ng/kg	91		63-170		
Batch number: 11166001	Sample number(s): 6294867,6294870-6294871									
2378-TCDD	0.0160	J	0.0128	1.00	ng/kg	87		67-158		
12378-PeCDD	0.0291	J	0.0148	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0238	J	0.0136	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0351	J	0.0141	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0637	J	0.0137	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.285	J	0.0207	5.00	ng/kg	93		70-140		
OCDD	0.624	J	0.0242	10.0	ng/kg	94		78-144		
2378-TCDF	0.0110	U	0.0110	1.00	ng/kg	99		75-158		
2378-TCDF-Conf	0.0242	J	0.0133	1.00	ng/kg					
12378-PeCDF	0.0327	J	0.00710	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0458	J	0.00720	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0395	J	0.00910	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0359	J	0.00760	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0521	J	0.0106	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0320	J	0.00850	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0763	J	0.00790	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0700	J	0.0145	5.00	ng/kg	96		78-138		
OCDF	0.257	J	0.0298	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11152162401B	Sample number(s): 6294867 BKG: P292005								
Moisture Content by 160.3						14.1	13.3	6	20
Batch number: 11167162401A	Sample number(s): 6294865-6294866,6294868-6294869 BKG: P294848								
Moisture Content by 160.3						13.6	12.8	6	20
Batch number: 11167162401B	Sample number(s): 6294870-6294873 BKG: P294851								
Moisture Content by 160.3						12.6	13.3	5	20
Batch number: 11153002	Sample number(s): 6294866,6294869,6294872-6294873 UNSPK: P293487								
2378-TCDD	97	97	67-158	0	25				
12378-PeCDD	101	102	70-142	1	25				
123478-HxCDD	100	101	70-164	1	25				
123678-HxCDD	103	104	76-134	1	25				
123789-HxCDD	100	101	64-162	1	25				
1234678-HpCDD	78	87	70-140	6	25				
OCDD	-46 (2)	25 (2)	78-144	18	25				
2378-TCDF	104	104	75-158	1	25				
12378-PeCDF	103	104	80-134	1	25				
23478-PeCDF	104	104	68-160	0	25				
123478-HxCDF	103	104	72-134	1	25				
123678-HxCDF	101	101	84-130	1	25				
123789-HxCDF	103	103	78-130	0	25				
234678-HxCDF	103	103	70-156	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248039
Reported: 06/22/11 at 10:33 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1234678-HpCDF	100	103	82-122	2	25				
1234789-HpCDF	101	104	78-138	3	25				
OCDF	100	102	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11153002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6294866	76	79	72	75	75	72
6294869	64	63	26	34	61	51
6294872	66	68	59	75	69	60
6294873	72	71	46	62	72	57
Blank	69	75	68	79	78	71
MS	78	79	62	70	77	78
MSD	81	82	76	78	77	85
OPR	67	73	56	66	71	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6294866	74	64	54	90	79	73
6294869	50	40	30	87	69	64
6294872	94	46	32	92	72	74
6294873	84	45	32	89	75	76
Blank	105	69	64	95	80	81
MS	75	74	67	89	79	77
MSD	81	75	66	90	83	78
OPR	88	66	61	88	77	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6294866	73	74	68	60	76	79
6294869	61	69	63	51	61	75
6294872	71	75	67	56	65	79
6294873	76	77	68	58	69	85
Blank	83	82	86	88	66	82
MS	76	78	76	72	79	81
MSD	77	79	78	71	79	84
OPR	75	75	79	80	64	76
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248039
Reported: 06/22/11 at 10:33 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11160001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6294865	74	60	41	47	64	59
6294868	80	64	37	43	71	71
Blank	77	59	53	65	68	61
OPR	65	50	26	35	56	40
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6294865	54	55	46	84	68	68
6294868	44	61	45	85	73	70
Blank	83	51	43	96	76	82
OPR	55	38	31	91	67	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6294865	68	73	69	60	66	66
6294868	69	80	70	53	71	64
Blank	81	87	82	72	62	70
OPR	71	76	70	62	50	61
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11166001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6294867	71	56	64	67	68	62
6294870	66	57	58	67	60	52
6294871	60	53	53	66	56	43
Blank	69	61	63	74	66	59
OPR	69	60	61	71	64	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6294867	53	50	27	84	61	74
6294870	79	48	39	86	69	74
6294871	86	36	25	81	64	68
Blank	90	59	56	87	74	79
OPR	91	59	55	89	74	78
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6294867	71	72	55	36	66	58

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248039
Reported: 06/22/11 at 10:33 PM

Surrogate Quality Control

6294870	70	73	68	58	54	64
6294871	66	69	64	54	50	64
Blank	78	80	81	78	56	67
OPR	75	79	81	80	56	67
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6294867	86
6294870	
6294871	
Blank	68
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1248039 sample# 6294865-73

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										
SL-020-SA5DN-SS-0.0-0.5	5/20/11	1520	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-020-SA5DN-SS-0.0-0.5	5/20/11	1520	SOIL	NONE	1-SS sleeve			X	X																	
SL-024-SA5DN-SS-0.0-0.5	5/20/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-024-SA5DN-SS-0.0-0.5	5/20/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-025-SA5DN-SS-0.0-0.5	5/20/11	1325	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SS-0.0-0.5	5/20/11	1325	SOIL	NONE	1-SS sleeve			X	X																	
SL-026-SA5DN-SS-0.0-0.5	5/20/11	1140	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SS-0.0-0.5	5/20/11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-027-SA5DN-SS-0.0-0.5	5/20/11	1405	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SS-0.0-0.5	5/20/11	1405	SOIL	NONE	1-SS sleeve			X	X																	
SL-028-SA5DN-SS-0.0-0.5	5/20/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SS-0.0-0.5	5/20/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-029-SA5DN-SS-0.0-0.5	5/20/11	1500	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-029-SA5DN-SS-0.0-0.5	5/20/11	1500	SOIL	NONE	1-SS sleeve			X	X																	
SL-036-SA5DN-SS-0.0-0.5	5/20/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SS-0.0-0.5	5/20/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-037-SA5DN-SS-0.0-0.5	5/20/11	1115	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SS-0.0-0.5	5/20/11	1115	SOIL	NONE	1-SS sleeve			X	X																	
SL-038-SA5DN-SS-0.0-0.5	5/20/11	1055	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SS-0.0-0.5	5/20/11	1055	SOIL	NONE	1-SS sleeve			X	X																	
SL-039-SA5DN-SS-0.0-0.5	5/20/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SS-0.0-0.5	5/20/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-040-SA5DN-SS-0.0-0.5	5/20/11	1040	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SS-0.0-0.5	5/20/11	1040	SOIL	NONE	1-SS sleeve			X	X																	
SL-044-SA5DN-SS-0.0-0.5	5/20/11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-044-SA5DN-SS-0.0-0.5	5/20/11	1440	SOIL	NONE	1-SS sleeve			X	X																	
SL-050-SA5DN-SS-0.0-0.5	5/20/11	0845	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-050-SA5DN-SS-0.0-0.5	5/20/11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-051-SA5DN-SS-0.0-0.5	5/20/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-051-SA5DN-SS-0.0-0.5	5/20/11	0915	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/20/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/21/11 / 0935	8695 1441 7939; 8695 1441 7940 8695 1441 7950	

acct#13013 Cup# 1248039 sample# 62948665-73

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-064-SA5DN-SB-4.5	5/20/11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-064-SA5DN-SB-4.0-5.0	5/20/11	1134	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-065-SA5DN-SB-4.5	5/20/11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-065-SA5DN-SB-4.0-5.0	5/20/11	1044	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-065-SA5DN-SB-7.5	5/20/11	1048	SOIL	NONE	5-Encores										X	X	X										
SL-065-SA5DN-SB-7.0-8.0	5/20/11	1052	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-066-SA5DN-SB-4.5	5/20/11	1530	SOIL	NONE	5-Encores										X	X	X										
SL-066-SA5DN-SB-4.0-5.0	5/20/11	1535	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-088-SA5DN-SB-4.5	5/20/11	1400	SOIL	NONE	5-Encores										X	X											1 extra encore was collected
SL-088-SA5DN-SB-4.0-5.0	5/20/11	1404	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X	X								X					
TB-052011	5/20/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/20/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	5/21/11 0936	8695 1441 7939; 8695 1441 7940 8695 1441 7950	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/24/2011
Group Number: 1248215
SDG: DE159
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-084-SA5DN-SB-4.0-5.0 Soil	6296035
SL-089-SA5DN-SB-4.0-5.0 Soil	6296036
SL-081-SA5DN-SB-4.0-5.0 Soil	6296037
SL-081-SA5DN-SB-9.0-10.0 Soil	6296038
SL-075-SA5DN-SB-4.0-5.0 Soil	6296039
SL-075-SA5DN-SB-9.0-10.0 Soil	6296040
TB-052311 Water	6296041
SL-015-SA5DN-SS-0.0-0.5 Soil	6296042
SL-016-SA5DN-SS-0.0-0.5 Soil	6296043
SL-017-SA5DN-SS-0.0-0.5 Soil	6296044
SL-019-SA5DN-SS-0.0-0.5 Soil	6296045
SL-021-SA5DN-SS-0.0-0.5 Soil	6296046
SL-022-SA5DN-SS-0.0-0.5 Soil	6296047
SL-022-SA5DN-SS-0.0-0.5MS Soil	6296048
SL-022-SA5DN-SS-0.0-0.5MSD Soil	6296049
SL-022-SA5DN-SS-0.0-0.5DUP Soil	6296050
SL-023-SA5DN-SS-0.0-0.5 Soil	6296051
SL-052-SA5DN-SS-0.0-0.5 Soil	6296052
SL-053-SA5DN-SS-0.0-0.5 Soil	6296053
DUP05-SA5DN-QC-052311 Soil	6296054
EB05-SA5DN-SS-052311 Water	6296055
SED-035-SIV-SD Sediment	6296056

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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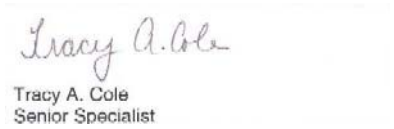
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Tracy A. Cole
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0	J	6.9	8.3		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.93
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.93
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.93

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Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	16		24.85
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1

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Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		5.35	21.3		1
07914	Boron	7440-42-8	0.947	U	0.947	5.32		1
01650	Calcium	7440-70-2	33,200		6.52	21.3		1
01654	Iron	7439-89-6	24,000		5.01	21.3		1
01656	Lithium	7439-93-2	23.5		0.23	2.1		1
01657	Magnesium	7439-95-4	4,850		2.70	10.6		1
06958	Manganese	7439-96-5	211		0.0830	0.532		1
10145	Phosphorus	7723-14-0	224		0.596	10.6		1
01662	Potassium	7440-09-7	2,100		19.1	53.2		1
01667	Sodium	7440-23-5	261		39.7	106		1
07968	Strontium	7440-24-6	44.6		0.0659	0.532		1
06969	Tin	7440-31-5	2.79	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,310		0.404	1.06		1
10146	Zirconium	7440-67-7	4.74	J	0.893	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.259		0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.95		0.0885	0.442		2
06126	Barium	7440-39-3	167		0.119	0.442		2
06127	Beryllium	7440-41-7	0.867		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.153		0.0442	0.111		2
06131	Chromium	7440-47-3	20.7		0.133	0.442		2
06132	Cobalt	7440-48-4	4.97		0.0221	0.111		2
06133	Copper	7440-50-8	14.0		0.0730	0.442		2
06135	Lead	7439-92-1	10.6		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.605		0.0553	0.111		2

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Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	20.0	0.111	0.442		2
06141	Selenium	7782-49-2	0.0788 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0345 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.405	0.0332	0.111		2
06148	Vanadium	7440-62-2	77.3	0.0243	0.111		2
06149	Zinc	7440-66-6	70.2	0.619	3.32		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0663 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.9	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.85 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.34	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-084-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 16:33	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 19:57	Sara E Johnson	24.85

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Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114424493	05/24/2011 15:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114424493	05/24/2011 16:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114424493	05/24/2011 16:17	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114424493	05/24/2011 15:48	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 07:23	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 17:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/02/2011 20:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 04:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:37	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:37	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1

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Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296035
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0844 SDG#: DE159-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 18:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 15:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 14:50	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296036
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE159-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	J	6.3	7.5		0.86
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.86
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.86
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.86
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.8		0.86
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.86
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.86
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.86
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.86
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.86
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.86
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.86
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.86
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.86
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.86
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.8		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.86
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.86
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.86
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.86
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.86
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.8		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.86
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.86
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.86
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.86
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.86
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.86
06192	Methylene Chloride	75-09-2	0.82	J	0.23	3.8		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.86

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Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296036
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE159-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.86
06192	Toluene	108-88-3	0.07	U	0.07	3.8		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.8		0.86
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.86
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.3	U	18.3	36.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296036
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE159-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1

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Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296036
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE159-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1

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Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296036
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0894 SDG#: DE159-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1

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SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296036
LLI Group # 1248215
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

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14420 Albemarle Point Place
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S0894 SDG#: DE159-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		5.48	21.8		1
07914	Boron	7440-42-8	0.969	U	0.969	5.45		1
01650	Calcium	7440-70-2	4,530		6.68	21.8		1
01654	Iron	7439-89-6	27,300		5.13	21.8		1
01656	Lithium	7439-93-2	27.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,550		2.77	10.9		1
06958	Manganese	7439-96-5	430		0.0850	0.545		1
10145	Phosphorus	7723-14-0	253		0.610	10.9		1
01662	Potassium	7440-09-7	2,650		19.6	54.5		1
01667	Sodium	7440-23-5	191		40.6	109		1
07968	Strontium	7440-24-6	28.8		0.0675	0.545		1
06969	Tin	7440-31-5	3.00	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,390		0.414	1.09		1
10146	Zirconium	7440-67-7	5.65		0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.370		0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.3		0.0863	0.431		2
06126	Barium	7440-39-3	176		0.116	0.431		2
06127	Beryllium	7440-41-7	1.14		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.330		0.0431	0.108		2
06131	Chromium	7440-47-3	22.7		0.129	0.431		2
06132	Cobalt	7440-48-4	9.24		0.0216	0.108		2
06133	Copper	7440-50-8	20.1		0.0712	0.431		2
06135	Lead	7439-92-1	15.4		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.540		0.0539	0.108		2
06139	Nickel	7440-02-0	29.9		0.108	0.431		2
06141	Selenium	7782-49-2	0.0574	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0750	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.440		0.0324	0.108		2
06148	Vanadium	7440-62-2	90.3		0.0237	0.108		2
06149	Zinc	7440-66-6	79.6		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296036
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

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14420 Albemarle Point Place
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S0894 SDG#: DE159-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.88	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 16:55	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 20:17	Sara E Johnson	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114424493	05/24/2011 15:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114424493	05/24/2011 16:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114424493	05/24/2011 16:17	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114424493	05/24/2011 15:54	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 20:05	Matthew S Woods	1

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SL-089-SA5DN-SB-4.0-5.0

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 07:49	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 18:04	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34A	05/31/2011 17:01	Elizabeth J Marin	22.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114424493	05/24/2011 15:53	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/02/2011 21:28	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 19:39	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/06/2011 21:40	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 04:18	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/07/2011 22:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 21:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 20:24	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 07:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 19:47	John P Hook	1

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S0894 SDG#: DE159-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:24	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:24	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 19:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202A	05/31/2011 19:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 16:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 14:56	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7		7.0	8.3		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.94
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.94
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.94
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.94
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.94
06192	Methylene Chloride	75-09-2	0.79	J	0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.94

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Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.94
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.95
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,900		5.56	22.1		1
07914	Boron	7440-42-8	1.00	J	0.983	5.52		1
01650	Calcium	7440-70-2	7,380		6.77	22.1		1
01654	Iron	7439-89-6	29,500		10.4	44.2		2
01656	Lithium	7439-93-2	28.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,630		2.81	11.0		1
06958	Manganese	7439-96-5	407		0.0862	0.552		1
10145	Phosphorus	7723-14-0	313		0.619	11.0		1
01662	Potassium	7440-09-7	3,490		19.9	55.2		1
01667	Sodium	7440-23-5	575		41.2	110		1
07968	Strontium	7440-24-6	39.1		0.0685	0.552		1
06969	Tin	7440-31-5	2.78	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,710		0.420	1.10		1
10146	Zirconium	7440-67-7	6.40		0.928	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.331		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.31		0.0875	0.438		2
06126	Barium	7440-39-3	217		0.295	1.09		5
06127	Beryllium	7440-41-7	1.04		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.448		0.0438	0.109		2
06131	Chromium	7440-47-3	28.3		0.131	0.438		2
06132	Cobalt	7440-48-4	14.7		0.0219	0.109		2
06133	Copper	7440-50-8	18.2		0.0722	0.438		2
06135	Lead	7439-92-1	14.7		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.579		0.0547	0.109		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	29.5	0.109	0.438		2
06141	Selenium	7782-49-2	0.0438 U	0.0438	0.438		2
06142	Silver	7440-22-4	0.0729 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.478	0.0328	0.109		2
06148	Vanadium	7440-62-2	93.1	0.0241	0.109		2
06149	Zinc	7440-66-6	86.3	0.613	3.28		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	20.8	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.13	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-081-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 17:17	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 20:36	Sara E Johnson	23.95

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Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114424493	05/24/2011 16:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114424493	05/24/2011 16:18	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114424493	05/24/2011 16:18	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114424493	05/24/2011 16:00	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 08:15	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 18:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/02/2011 22:11	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 04:37	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:55	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:22	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/07/2011 00:44	David K Beck	5
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:42	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296037
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0814 SDG#: DE159-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 19:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 16:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 15:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296038
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0819 SDG#: DE159-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296038
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0819 SDG#: DE159-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.55	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296038
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0819 SDG#: DE159-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,100		5.29	21.0		1
07914	Boron	7440-42-8	0.935	U	0.935	5.25		1
01650	Calcium	7440-70-2	7,150		6.44	21.0		1
01654	Iron	7439-89-6	21,500		4.95	21.0		1
01656	Lithium	7439-93-2	25.8		0.23	2.1		1

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Analysis Report

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296038
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0819 SDG#: DE159-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,490		2.67	10.5		1
06958	Manganese	7439-96-5	284		0.0820	0.525		1
10145	Phosphorus	7723-14-0	291		0.588	10.5		1
01662	Potassium	7440-09-7	2,320		18.9	52.5		1
01667	Sodium	7440-23-5	341		39.2	105		1
07968	Strontium	7440-24-6	23.0		0.0652	0.525		1
06969	Tin	7440-31-5	2.66	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,230		0.399	1.05		1
10146	Zirconium	7440-67-7	3.95	J	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.179	J	0.0643	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.69		0.0857	0.429		2
06126	Barium	7440-39-3	113		0.116	0.429		2
06127	Beryllium	7440-41-7	0.735		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.162		0.0429	0.107		2
06131	Chromium	7440-47-3	18.7		0.129	0.429		2
06132	Cobalt	7440-48-4	6.21		0.0214	0.107		2
06133	Copper	7440-50-8	10.8		0.0707	0.429		2
06135	Lead	7439-92-1	7.15		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.418		0.0536	0.107		2
06139	Nickel	7440-02-0	17.7		0.107	0.429		2
06141	Selenium	7782-49-2	0.0429	U	0.0429	0.429		2
06142	Silver	7440-22-4	0.0560	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.337		0.0321	0.107		2
06148	Vanadium	7440-62-2	55.1		0.0236	0.107		2
06149	Zinc	7440-66-6	63.5		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0130	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.60		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296038
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0819 SDG#: DE159-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 08:42	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 19:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/02/2011 22:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 04:55	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:26	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:46	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296038
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0819 SDG#: DE159-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 19:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 17:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 15:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296039
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0754 SDG#: DE159-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.5		6.9	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.1		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.9
06192	Methylene Chloride	75-09-2	1.1	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

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Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296039
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0754 SDG#: DE159-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		22.36
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296039
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0754 SDG#: DE159-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296039
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0754 SDG#: DE159-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	3.9	J	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,900		5.58	22.2		1
07914	Boron	7440-42-8	0.988	U	0.988	5.55		1
01650	Calcium	7440-70-2	10,300		6.81	22.2		1
01654	Iron	7439-89-6	31,600		10.5	44.4		2
01656	Lithium	7439-93-2	35.2		0.24	2.2		1
01657	Magnesium	7439-95-4	6,880		2.82	11.1		1
06958	Manganese	7439-96-5	178		0.0866	0.555		1
10145	Phosphorus	7723-14-0	226		0.622	11.1		1
01662	Potassium	7440-09-7	3,230		20.0	55.5		1
01667	Sodium	7440-23-5	714		41.4	111		1
07968	Strontium	7440-24-6	57.5		0.0688	0.555		1
06969	Tin	7440-31-5	3.00	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,290		0.422	1.11		1
10146	Zirconium	7440-67-7	4.75	J	0.933	5.55		1

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Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296039
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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S0754 SDG#: DE159-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.204 J	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.08	0.0906	0.453		2
06126	Barium	7440-39-3	170	0.122	0.453		2
06127	Beryllium	7440-41-7	1.00	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.490	0.0453	0.113		2
06131	Chromium	7440-47-3	26.8	0.136	0.453		2
06132	Cobalt	7440-48-4	8.52	0.0226	0.113		2
06133	Copper	7440-50-8	16.8	0.0747	0.453		2
06135	Lead	7439-92-1	13.3	0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.224	0.0566	0.113		2
06139	Nickel	7440-02-0	28.7	0.113	0.453		2
06141	Selenium	7782-49-2	0.0453 U	0.0453	0.453		2
06142	Silver	7440-22-4	0.0595 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.477	0.0340	0.113		2
06148	Vanadium	7440-62-2	77.2	0.0249	0.113		2
06149	Zinc	7440-66-6	76.6	0.634	3.40		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.3	0.92	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296039
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S0754 SDG#: DE159-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-075-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 17:40	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 20:56	Sara E Johnson	22.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114424493	05/24/2011 16:09	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114424493	05/24/2011 16:18	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114424493	05/24/2011 16:18	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114424493	05/24/2011 16:06	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 09:08	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 19:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 21:59	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 05:13	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:59	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:29	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296039
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0754 SDG#: DE159-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:48	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 20:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 17:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 15:36	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296040
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0759 SDG#: DE159-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296040
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0759 SDG#: DE159-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.4		5
10138	Benzo(a)pyrene	50-32-8	3.8	U	3.8	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	4.2	J	3.8	9.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.4		5
10138	Chrysene	218-01-9	3.4	J	1.9	9.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.4		5
10138	Fluoranthene	206-44-0	5.0	J	3.8	9.4		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.4		5
10138	Naphthalene	91-20-3	7.6	J	3.8	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.4		5
10138	Phenanthrene	85-01-8	8.6	J	3.8	9.4		5
10138	Pyrene	129-00-0	3.8	U	3.8	9.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1

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Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296040
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0759 SDG#: DE159-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.67	22.6		1
07914	Boron	7440-42-8	1.00	U	1.00	5.64		1
01650	Calcium	7440-70-2	42,600		6.92	22.6		1
01654	Iron	7439-89-6	19,700		5.31	22.6		1
01656	Lithium	7439-93-2	22.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,760		2.87	11.3		1
06958	Manganese	7439-96-5	301		0.0880	0.564		1
10145	Phosphorus	7723-14-0	387		0.632	11.3		1
01662	Potassium	7440-09-7	2,500		20.3	56.4		1
01667	Sodium	7440-23-5	393		42.1	113		1
07968	Strontium	7440-24-6	78.8		0.0699	0.564		1
06969	Tin	7440-31-5	2.78	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,230		0.429	1.13		1
10146	Zirconium	7440-67-7	4.70	J	0.948	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.194	J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.16		0.0885	0.443		2
06126	Barium	7440-39-3	125		0.120	0.443		2
06127	Beryllium	7440-41-7	0.645		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.484		0.0443	0.111		2
06131	Chromium	7440-47-3	20.7		0.133	0.443		2
06132	Cobalt	7440-48-4	8.19		0.0221	0.111		2
06133	Copper	7440-50-8	13.2		0.0730	0.443		2
06135	Lead	7439-92-1	8.38		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.782		0.0553	0.111		2
06139	Nickel	7440-02-0	24.4		0.111	0.443		2
06141	Selenium	7782-49-2	0.0459	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0669	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.379		0.0332	0.111		2
06148	Vanadium	7440-62-2	59.4		0.0243	0.111		2
06149	Zinc	7440-66-6	62.8		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296040
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0759 SDG#: DE159-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.3		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011	09:35	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011	09:52	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011	09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011	09:15	Kerrie A Freeburn	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011	22:05	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011	05:32	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011	15:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011	09:15	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011	20:40	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011	20:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011	20:40	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/01/2011	20:40	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296040
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S0759 SDG#: DE159-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:40	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:49	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 15:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 20:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 18:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 15:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

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Analysis Report

Sample Description: TB-052311 Water
SSFL Area IV Collocated Soil Sampling
TB-052311

LLI Sample # WW 6296041
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB523 SDG#: DE159-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-052311 Water
SSFL Area IV Collocated Soil Sampling
TB-052311

LLI Sample # WW 6296041
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB523 SDG#: DE159-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111471AA	05/27/2011 21:44	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111461AA	05/26/2011 12:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111461AA	05/26/2011 12:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111471AA	05/27/2011 21:44	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11151A20A	05/31/2011 15:27	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11151A20A	05/31/2011 15:27	Laura M Krieger	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE159-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	189	U	189	378		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE159-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	7.0	J	3.7	9.4		5
10138	Benzo(a)pyrene	50-32-8	9.4		3.7	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	25		3.7	9.4		5
10138	Benzo(g,h,i)perylene	191-24-2	6.2	J	3.7	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.4		5
10138	Chrysene	218-01-9	9.6		1.9	9.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.4		5
10138	Fluoranthene	206-44-0	11		3.7	9.4		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.0	J	3.7	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.4		5
10138	Naphthalene	91-20-3	4.2	J	3.7	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.4		5
10138	Phenanthrene	85-01-8	6.5	J	3.7	9.4		5
10138	Pyrene	129-00-0	10		3.7	9.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE159-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	86	U	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

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Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL015 SDG#: DE159-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.7		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.95		0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.084	U	0.084	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.38	U	0.38	0.39		1
01363	p,p-DDT	50-29-3	1.4		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.11	U	0.11	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.11	U	0.11	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction were within the QC limits. The original data is reported.

Reporting limits were raised due to interference from the sample matrix.

The concentration of beta-BHC detected in the reextract is .06 ug/kg. The concentration of DDT detected in the reextract is .18 ug/kg. The surrogate recoveries associated with the reextract were outside the lower QC limit.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	38		10
10225	Aroclor 5442	12642-23-8	11	U	11	38		10
10225	Aroclor 5460	11126-42-4	11	U	11	38		10
10225	PCB-1016	12674-11-2	3.8	U	3.8	19		10
10225	PCB-1221	11104-28-2	3.8	U	3.8	19		10

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Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE159-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1232	11141-16-5	3.8	U	3.8	19		10
10225	PCB-1242	53469-21-9	3.8	U	3.8	19		10
10225	PCB-1248	12672-29-6	3.8	U	3.8	19		10
10225	PCB-1254	11097-69-1	3.8	U	3.8	19		10
10225	PCB-1260	11096-82-5	55		4.4	19		10
10225	PCB-1262	37324-23-5	3.8	U	3.8	19		10
10225	PCB-1268	11100-14-4	3.8	U	3.8	19		10
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.8		5
10199	EFH (C15-C20)	n.a.	14		2.3	6.8		5
10199	EFH (C21-C30)	n.a.	39		2.3	6.8		5
10199	EFH (C30 - C40)	n.a.	180		2.3	6.8		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.8		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	35,000		5.67	22.5		1
07914	Boron	7440-42-8	2.11	J	1.00	5.63		1
01650	Calcium	7440-70-2	11,500		6.90	22.5		1
01654	Iron	7439-89-6	33,800		10.6	45.1		2
01656	Lithium	7439-93-2	29.7		0.25	2.3		1
01657	Magnesium	7439-95-4	7,710		2.86	11.3		1
06958	Manganese	7439-96-5	396		0.0879	0.563		1
10145	Phosphorus	7723-14-0	332		0.631	11.3		1
01662	Potassium	7440-09-7	4,580		20.3	56.3		1
01667	Sodium	7440-23-5	123		42.0	113		1
07968	Strontium	7440-24-6	45.3		0.0698	0.563		1
06969	Tin	7440-31-5	3.06	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,700		0.428	1.13		1
10146	Zirconium	7440-67-7	7.37		0.946	5.63		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE159-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.435		0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.24		0.0884	0.442		2
06126	Barium	7440-39-3	163		0.298	1.10		5
06127	Beryllium	7440-41-7	1.14		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.421		0.0442	0.110		2
06131	Chromium	7440-47-3	29.7		0.133	0.442		2
06132	Cobalt	7440-48-4	11.2		0.0221	0.110		2
06133	Copper	7440-50-8	23.0		0.0729	0.442		2
06135	Lead	7439-92-1	17.9		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.702		0.0552	0.110		2
06139	Nickel	7440-02-0	31.2		0.110	0.442		2
06141	Selenium	7782-49-2	0.148	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0755	J	0.0133	0.110		2
06145	Thallium	7440-28-0	0.503		0.0331	0.110		2
06148	Vanadium	7440-62-2	100		0.0243	0.110		2
06149	Zinc	7440-66-6	106		0.619	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0458	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.91	U	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.93	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Analysis Report

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE159-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 16:38	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 15:11	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 10:23	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/02/2011 23:36	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 19:48	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 10:14	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 22:11	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 05:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 05:50	Richard A Shober	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 18:33	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 21:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 20:36	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 16:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1

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SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
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SL015 SDG#: DE159-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:27	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 19:58	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 08:22	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:26	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 21:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202A	05/31/2011 21:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/07/2011 14:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 16:10	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:34	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296042
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE159-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	56.2		18.8	37.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Anthracene	120-12-7	54	J	19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	380		19	190		1
04688	Benzo(a)pyrene	50-32-8	280		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	420		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	110	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	20	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Chrysene	218-01-9	380		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	32	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Fluoranthene	206-44-0	470		19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	130	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenanthrene	85-01-8	60	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	640		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	14		3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.085	J	0.084	0.19		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.33		0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.056	J	0.038	0.19		1
01363	Chlordane	57-74-9	2.3	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.37	U	0.37	0.38		1
01363	p,p-DDT	50-29-3	7.0		0.74	3.8		10
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	1.6	U	1.6	1.6		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.16	U	0.16	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19		1
01363	Methoxychlor	72-43-5	0.75	U	0.75	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
	The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction were within the QC limits. The original data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
	The concentration of beta-BHC detected in the reextract is .06 ug/kg. The concentration of DDT detected in the reextract is 2.5 ug/kg. The surrogate recoveries associated with the reextract were outside the lower QC limit.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	11	U	11	37		10
10225	Aroclor 5442	12642-23-8	11	U	11	37		10
10225	Aroclor 5460	11126-42-4	11	U	11	37		10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19		10
10225	PCB-1221	11104-28-2	3.7	U	3.7	19		10

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Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	3.7	U	3.7	19		10
10225	PCB-1242	53469-21-9	3.7	U	3.7	19		10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19		10
10225	PCB-1254	11097-69-1	3.7	U	3.7	19		10
10225	PCB-1260	11096-82-5	140		4.4	19		10
10225	PCB-1262	37324-23-5	3.7	U	3.7	19		10
10225	PCB-1268	11100-14-4	3.7	U	3.7	19		10
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	13		10
10199	EFH (C15-C20)	n.a.	8.2	J	4.5	13		10
10199	EFH (C21-C30)	n.a.	95		4.5	13		10
10199	EFH (C30 - C40)	n.a.	450		4.5	13		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	5.3		1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.9	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,400		5.60	22.3		1
07914	Boron	7440-42-8	0.991	U	0.991	5.57		1
01650	Calcium	7440-70-2	12,200		6.83	22.3		1
01654	Iron	7439-89-6	30,900		10.5	44.5		2
01656	Lithium	7439-93-2	26.4		0.25	2.2		1
01657	Magnesium	7439-95-4	7,030		2.83	11.1		1
06958	Manganese	7439-96-5	382		0.0869	0.557		1
10145	Phosphorus	7723-14-0	389		0.624	11.1		1
01662	Potassium	7440-09-7	4,340		20.0	55.7		1
01667	Sodium	7440-23-5	129		41.5	111		1
07968	Strontium	7440-24-6	45.1		0.0691	0.557		1
06969	Tin	7440-31-5	2.88	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,530		0.423	1.11		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	6.61		0.936	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.300		0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.68		0.0882	0.441		2
06126	Barium	7440-39-3	159		0.119	0.441		2
06127	Beryllium	7440-41-7	0.833		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.318		0.0441	0.110		2
06131	Chromium	7440-47-3	28.9		0.132	0.441		2
06132	Cobalt	7440-48-4	10.3		0.0221	0.110		2
06133	Copper	7440-50-8	17.6		0.0728	0.441		2
06135	Lead	7439-92-1	12.7		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.509		0.0551	0.110		2
06139	Nickel	7440-02-0	21.8		0.110	0.441		2
06141	Selenium	7782-49-2	0.114	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0617	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.358		0.0331	0.110		2
06148	Vanadium	7440-62-2	74.2		0.0243	0.110		2
06149	Zinc	7440-66-6	88.4		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.24		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.1		0.50	0.50		1

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Analysis Report

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 20:39	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 15:38	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 11:01	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 00:18	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 19:58	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 10:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 06:28	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 06:41	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 07:23	Richard A Shober	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 18:58	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 21:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 20:49	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 17:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1

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Analysis Report

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:31	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:01	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:28	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 21:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202A	05/31/2011 21:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 18:54	William L Hamaker Jr	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296043
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE159-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 16:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:35	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296044
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE159-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	130	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	100	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	180	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	41	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	28	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	100	J	18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	22	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	18	370		1
04688	Fluoranthene	206-44-0	120	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	53	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296044
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE159-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	170	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
	Benzo(b)fluoranthene and benzo(k)fluoranthene were not resolved under the sample analysis conditions. The result reported for benzo(b)fluoranthene represents the combined total of both isomers.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	2.2	J	1.9	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	18		3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	5.9	J	3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1

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Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296044
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE159-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	97	J	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.22		0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.18	J	0.084	0.19		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.49	U	0.49	0.49		1
01363	p,p-DDT	50-29-3	12		0.74	3.8		10
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	2.2	U	2.2	3.8		10
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.28	U	0.28	0.28		1
01363	Methoxychlor	72-43-5	1.1	U	1.1	1.8		1
01363	Mirex	2385-85-5	0.48	U	0.48	0.48		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction were within the QC limits. The original data is reported.

Reporting limits were raised due to interference from the sample matrix.

The concentration of DDT detected in the reextract is 7.0 ug/kg.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

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Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296044
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE159-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18		5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.5		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.5		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.5		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.5		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.5		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.5		5
10225	PCB-1260	11096-82-5	32		2.2	9.5		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.5		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		5.58	22.2		1
07914	Boron	7440-42-8	0.987	U	0.987	5.54		1
01650	Calcium	7440-70-2	12,200		6.80	22.2		1
01654	Iron	7439-89-6	32,400		10.4	44.3		2
01656	Lithium	7439-93-2	25.5		0.24	2.2		1
01657	Magnesium	7439-95-4	6,910		2.82	11.1		1
06958	Manganese	7439-96-5	393		0.0865	0.554		1
10145	Phosphorus	7723-14-0	454		0.621	11.1		1
01662	Potassium	7440-09-7	4,510		20.0	55.4		1
01667	Sodium	7440-23-5	129		41.4	111		1
07968	Strontium	7440-24-6	45.2		0.0687	0.554		1
06969	Tin	7440-31-5	2.96	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,500		0.421	1.11		1
10146	Zirconium	7440-67-7	5.80		0.931	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.365		0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.77		0.0870	0.435		2
06126	Barium	7440-39-3	140		0.117	0.435		2
06127	Beryllium	7440-41-7	0.880		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.391		0.0435	0.109		2
06131	Chromium	7440-47-3	25.4		0.130	0.435		2
06132	Cobalt	7440-48-4	9.01		0.0217	0.109		2
06133	Copper	7440-50-8	24.4		0.0718	0.435		2
06135	Lead	7439-92-1	17.4		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.929		0.0544	0.109		2
06139	Nickel	7440-02-0	25.5		0.109	0.435		2
06141	Selenium	7782-49-2	0.116	J	0.0435	0.435		2
06142	Silver	7440-22-4	0.0786	J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.449		0.0326	0.109		2
06148	Vanadium	7440-62-2	90.3		0.0239	0.109		2
06149	Zinc	7440-66-6	133		0.609	3.26		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296044
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE159-10

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.0	0.90	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1 U	10.1	33.6		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.38 J	0.22	1.1		1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.10	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	10.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 16:04	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 11:32	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 11:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 07:07	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 07:21	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 07:41	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1

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Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296044
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL017 SDG#: DE159-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 09:02	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:43	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/07/2011 00:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:51	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 08:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 08:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 08:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 15:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 21:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 19:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 16:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296044
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL017 SDG#: DE159-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403A	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	193	U	193	385		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	21	J	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	5.2	J	3.8	9.6		5
10138	Benzo(a)pyrene	50-32-8	6.2	J	3.8	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	12		3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	4.8	J	3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	4.6	J	3.8	9.6		5
10138	Chrysene	218-01-9	6.8	J	1.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6		5
10138	Fluoranthene	206-44-0	11		3.8	9.6		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.6		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.6		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6		5
10138	Phenanthrene	85-01-8	7.2	J	3.8	9.6		5
10138	Pyrene	129-00-0	8.4	J	3.8	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1

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Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	88	U	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

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Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.39		1
01363	p,p-DDT	50-29-3	0.70		0.076	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.10	U	0.10	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. The original data is reported.

DDT was not detected in the reextract.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	5.8		0.45	2.0		1

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Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.93	U	0.93	2.8		2
10199	EFH (C15-C20)	n.a.	5.4		0.93	2.8		2
10199	EFH (C21-C30)	n.a.	21		0.93	2.8		2
10199	EFH (C30 - C40)	n.a.	61		0.93	2.8		2
10199	EFH (C8-C11)	n.a.	0.93	U	0.93	2.8		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	36,100		5.67	22.5		1
07914	Boron	7440-42-8	1.80	J	1.00	5.63		1
01650	Calcium	7440-70-2	11,000		6.90	22.5		1
01654	Iron	7439-89-6	34,200		10.6	45.1		2
01656	Lithium	7439-93-2	30.7		0.25	2.3		1
01657	Magnesium	7439-95-4	7,900		2.86	11.3		1
06958	Manganese	7439-96-5	433		0.0879	0.563		1
10145	Phosphorus	7723-14-0	297		0.631	11.3		1
01662	Potassium	7440-09-7	4,540		20.3	56.3		1
01667	Sodium	7440-23-5	188		42.0	113		1
07968	Strontium	7440-24-6	49.1		0.0698	0.563		1
06969	Tin	7440-31-5	3.04	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,680		0.428	1.13		1
10146	Zirconium	7440-67-7	7.71		0.946	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.383		0.0682	0.227		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.55		0.0910	0.455		2
06126	Barium	7440-39-3	183		0.307	1.14		5
06127	Beryllium	7440-41-7	1.15		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.417		0.0455	0.114		2
06131	Chromium	7440-47-3	32.6		0.136	0.455		2
06132	Cobalt	7440-48-4	10.2		0.0227	0.114		2
06133	Copper	7440-50-8	22.0		0.0751	0.455		2
06135	Lead	7439-92-1	14.7		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.636		0.0569	0.114		2
06139	Nickel	7440-02-0	29.4		0.114	0.455		2
06141	Selenium	7782-49-2	0.144	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0757	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.497		0.0341	0.114		2
06148	Vanadium	7440-62-2	98.3		0.0250	0.114		2
06149	Zinc	7440-66-6	96.9		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.84	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 16:55	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 16:31	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 12:02	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 02:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 20:08	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 11:37	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 07:48	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 08:00	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 18:08	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 21:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 21:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 14:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:34	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1

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Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:05	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 08:25	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:30	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202A	05/31/2011 21:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202A	05/31/2011 21:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201A	06/05/2011 19:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 16:39	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:36	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202A	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201A	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-019-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296045
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL019 SDG#: DE159-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL021 SDG#: DE159-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	194	U	194	388		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL021 SDG#: DE159-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.42	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	3.1		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	5.4		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	3.1		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	4.5		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	1.9	J	0.76	1.9		1
10138	Pyrene	129-00-0	3.5		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1

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Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL021 SDG#: DE159-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	100	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

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Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

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SL021 SDG#: DE159-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	1.1	J	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.12	U	0.12	0.40		1
01363	p,p-DDT	50-29-3	1.0		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.094	U	0.094	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.094	U	0.094	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.10	U	0.10	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. The original data is reported.

Reporting limits were raised due to interference from the sample matrix.

The concentration of DDT detected in the reextract is .24 ug/kg. Chlordane was not detected in the reextract.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	9.7		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1

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Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL021 SDG#: DE159-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	6.8		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	3.9		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	20		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	26		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,800		5.80	23.1		1
07914	Boron	7440-42-8	1.71	J	1.03	5.76		1
01650	Calcium	7440-70-2	9,700		7.07	23.1		1
01654	Iron	7439-89-6	34,400		10.9	46.1		2
01656	Lithium	7439-93-2	32.3		0.25	2.3		1
01657	Magnesium	7439-95-4	8,080		2.93	11.5		1
06958	Manganese	7439-96-5	370		0.0899	0.576		1
10145	Phosphorus	7723-14-0	239		0.645	11.5		1
01662	Potassium	7440-09-7	4,470		20.7	57.6		1
01667	Sodium	7440-23-5	163		43.0	115		1
07968	Strontium	7440-24-6	46.6		0.0715	0.576		1
06969	Tin	7440-31-5	2.96	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,700		0.438	1.15		1
10146	Zirconium	7440-67-7	7.90		0.968	5.76		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.351		0.0685	0.228		2

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Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL021 SDG#: DE159-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.36		0.0913	0.457		2
06126	Barium	7440-39-3	204		0.123	0.457		2
06127	Beryllium	7440-41-7	1.02		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.458		0.0457	0.114		2
06131	Chromium	7440-47-3	29.2		0.137	0.457		2
06132	Cobalt	7440-48-4	9.04		0.0228	0.114		2
06133	Copper	7440-50-8	21.0		0.0753	0.457		2
06135	Lead	7439-92-1	14.7		0.0119	0.228		2
06138	Molybdenum	7439-98-7	0.632		0.0571	0.114		2
06139	Nickel	7440-02-0	28.4		0.114	0.457		2
06141	Selenium	7782-49-2	0.104	J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0740	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.463		0.0342	0.114		2
06148	Vanadium	7440-62-2	96.6		0.0251	0.114		2
06149	Zinc	7440-66-6	89.9		0.639	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.81	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

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SL021 SDG#: DE159-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 17:13	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 16:58	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 17:23	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 03:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 20:17	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 12:04	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 08:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 08:18	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 17:18	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 22:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 21:15	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 15:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:38	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1

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Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

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14420 Albemarle Point Place
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SL021 SDG#: DE159-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:31	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:31	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	05/31/2011 23:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202B	05/31/2011 23:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 21:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 16:50	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:37	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296046
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL021 SDG#: DE159-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.3		1
	The surrogate recoveries are outside of QC limits. The matrix spike sample was analyzed and surrogate recoveries are again outside of QC limits, indicating a matrix effect.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.96	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	87	U	87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.16	J	0.086	0.20		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent

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Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
the lowest reporting limits attainable.								
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.98	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.076	U	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.52		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.11	J	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.12	J	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. The original data is reported.

The concentration of DDT detected in the reextract is .17 ug/kg. The surrogate recoveries associated with the reextract were outside the lower QC limit.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	6.4	J	4.6	14		10
10199	EFH (C21-C30)	n.a.	60		4.6	14		10
10199	EFH (C30 - C40)	n.a.	290		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,200		5.66	22.5		1
07914	Boron	7440-42-8	2.82	J	1.00	5.63		1
01650	Calcium	7440-70-2	18,500		6.90	22.5		1
01654	Iron	7439-89-6	32,000		10.6	45.0		2
01656	Lithium	7439-93-2	26.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,650		2.86	11.3		1
06958	Manganese	7439-96-5	451		0.0878	0.563		1
10145	Phosphorus	7723-14-0	357		0.630	11.3		1
01662	Potassium	7440-09-7	4,400		20.3	56.3		1
01667	Sodium	7440-23-5	143		42.0	113		1
07968	Strontium	7440-24-6	41.8		0.0698	0.563		1
06969	Tin	7440-31-5	3.22	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,660		0.428	1.13		1
10146	Zirconium	7440-67-7	6.98		0.945	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.510		0.0682	0.227		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.16		0.0909	0.455		2
06126	Barium	7440-39-3	199		0.123	0.455		2
06127	Beryllium	7440-41-7	1.01		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.727		0.0455	0.114		2
06131	Chromium	7440-47-3	30.1		0.136	0.455		2
06132	Cobalt	7440-48-4	13.0		0.0227	0.114		2
06133	Copper	7440-50-8	22.8		0.0750	0.455		2
06135	Lead	7439-92-1	20.0		0.0118	0.227		2
06138	Molybdenum	7439-98-7	1.50		0.0568	0.114		2
06139	Nickel	7440-02-0	28.9		0.114	0.455		2
06141	Selenium	7782-49-2	0.232	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0712	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.491		0.0341	0.114		2
06148	Vanadium	7440-62-2	91.4		0.0250	0.114		2
06149	Zinc	7440-66-6	162		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0463	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.74	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 21:32	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 05:37	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 15:55	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 03:50	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 20:27	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 08:51	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 08:43	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 08:37	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 19:23	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 22:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 21:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 17:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:06	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 19:26	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 06:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:02	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 06:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 06:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 06:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/07/2011 00:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	05/31/2011 22:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202B	05/31/2011 22:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 20:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 17:07	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:41	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296047
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	229		19.1	38.3		1
The surrogate recoveries are outside of QC limits. The background sample was analyzed and surrogate recoveries are again outside of QC limits, indicating a matrix effect.								
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,400		190	570		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	2,500	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,100		190	570		1
04688	Benzyl alcohol	100-51-6	2,100		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,900		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	2,100		38	190		1
04688	4-Chloroaniline	106-47-8	1,500		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		19	190		1
04688	2-Chloronaphthalene	91-58-7	2,700		19	190		1
04688	2-Chlorophenol	95-57-8	1,900		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		38	190		1
04688	Chrysene	218-01-9	1,900		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,000		19	190		1
04688	Diethylphthalate	84-66-2	1,900		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190		1
04688	Dimethylphthalate	131-11-3	1,800		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,500		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	2,100		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200		19	380		1
04688	Fluoranthene	206-44-0	1,700		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	1,800	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,300	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600	190	570		1
04688	Hexachloroethane	67-72-1	1,400	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190		1
04688	2-Methylphenol	95-48-7	1,900	38	190		1
04688	4-Methylphenol	106-44-5	2,100	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	2,100	19	190		1
04688	3-Nitroaniline	99-09-2	2,100	38	190		1
04688	4-Nitroaniline	100-01-6	1,700	76	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	1,800	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,600	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	2,000	19	190		1
04688	Pyrene	129-00-0	2,100	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	39	0.76	1.9		1
10138	Acenaphthylene	208-96-8	38	0.38	1.9		1
10138	Anthracene	120-12-7	40	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	37	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	48	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	53	0.76	1.9		1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(g,h,i)perylene	191-24-2	32		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	49		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	40		6.9	21		1
10138	Di-n-butylphthalate	84-74-2	47		6.9	21		1
10138	Chrysene	218-01-9	38		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.76	1.9		1
10138	Diethylphthalate	84-66-2	41		6.9	21		1
10138	Dimethylphthalate	131-11-3	40		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.9	21		1
10138	Fluoranthene	206-44-0	43		0.76	1.9		1
10138	Fluorene	86-73-7	40		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	39		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	35		0.76	1.9		1
10138	Naphthalene	91-20-3	37		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	39		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	53		6.9	21		1
10138	Phenanthrene	85-01-8	39		0.76	1.9		1
10138	Pyrene	129-00-0	34		0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,600		69	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,700		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,500		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,500		46	140		1
10132	HMX	2691-41-0	2,300		110	340		1
10132	Nitrobenzene	98-95-3	2,600		46	140		1
10132	Nitroglycerin	55-63-0	56,000		920	2,800		1
10132	2-Nitrotoluene	88-72-2	2,400		92	140		1
10132	3-Nitrotoluene	99-08-1	2,600		110	140		1
10132	4-Nitrotoluene	99-99-0	2,400		92	140		1
10132	PETN	78-11-5	70,000		920	2,800		1
10132	RDX	121-82-4	2,100		57	140		1
10132	Tetryl	479-45-8	2,100		70	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,500		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		46	140		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.7		1.4	4.1		1
10401	Dalapon	75-99-0	14		5.0	10		1
10401	2,4-DB	94-82-6	5.9		0.71	1.9		1
10401	Dicamba	1918-00-9	0.82	J	0.46	1.4		1
10401	Dinoseb	88-85-7	1.4	J	0.92	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.6		0.92	1.9		1
10401	MCPA	94-74-6	850		87	290		1
10401	MCPP (Mecoprop)	93-65-2	670		86	290		1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.67		0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.72		0.086	0.20		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,600		690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.15	J	0.076	0.20		1
01363	Alpha BHC	319-84-6	0.22		0.039	0.20		1
01363	Beta BHC	319-85-7	0.17	J	0.069	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.24		0.039	0.20		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.39		0.076	0.39		1
01363	p,p-DDE	72-55-9	0.46		0.076	0.39		1
01363	p,p-DDT	50-29-3	1.2		0.076	0.39		1
01363	Delta BHC	319-86-8	0.18	J	0.041	0.20		1
01363	Dieldrin	60-57-1	0.57		0.076	0.39		1
01363	Endosulfan I	959-98-8	0.14	J	0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.23	J	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.42		0.076	0.39		1
01363	Endrin	72-20-8	0.37	J	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.30	J	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.25	J	0.076	0.39		1
01363	Heptachlor	76-44-8	0.26		0.069	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.16	J	0.039	0.20		1
01363	Methoxychlor	72-43-5	2.9		0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. The original data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	17		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	19		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	7.0	J	4.6	14		10
10199	EFH (C21-C30)	n.a.	55		4.6	14		10
10199	EFH (C30 - C40)	n.a.	240		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,900		110	570		1
10501	Isopropanol	67-63-0	2,000		110	570		1
10501	Methanol	67-56-1	2,000		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	96		5.7	11		1
08283	Ethylene glycol	107-21-1	160		5.7	11		1
08283	Propylene glycol	57-55-6	160		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	J	1.5	4.0		1
10318	o-Terphenyl	84-15-1	1.9	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.8	J	1.7	4.0		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,500		5.55	22.1		1
07914	Boron	7440-42-8	220		0.983	5.52		1
01650	Calcium	7440-70-2	8,290		6.77	22.1		1
01654	Iron	7439-89-6	32,800		10.4	44.2		2
01656	Lithium	7439-93-2	137		0.24	2.2		1
01657	Magnesium	7439-95-4	7,140		2.80	11.0		1
06958	Manganese	7439-96-5	527		0.0861	0.552		1
10145	Phosphorus	7723-14-0	498		0.618	11.0		1
01662	Potassium	7440-09-7	6,180		19.9	55.2		1
01667	Sodium	7440-23-5	1,230		41.2	110		1
07968	Strontium	7440-24-6	144		0.0684	0.552		1
06969	Tin	7440-31-5	390		1.10	11.0		1
06970	Titanium	7440-32-6	1,900		0.420	1.10		1
10146	Zirconium	7440-67-7	111		0.927	5.52		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.31	0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.2	0.0900	0.450		2
06126	Barium	7440-39-3	202	0.122	0.450		2
06127	Beryllium	7440-41-7	1.88	0.0180	0.113		2
06128	Cadmium	7440-43-9	1.88	0.0450	0.113		2
06131	Chromium	7440-47-3	41.3	0.135	0.450		2
06132	Cobalt	7440-48-4	64.0	0.0225	0.113		2
06133	Copper	7440-50-8	34.2	0.0743	0.450		2
06135	Lead	7439-92-1	24.1	0.0117	0.225		2
06138	Molybdenum	7439-98-7	15.2	0.0563	0.113		2
06139	Nickel	7440-02-0	46.7	0.113	0.450		2
06141	Selenium	7782-49-2	2.69	0.0450	0.450		2
06142	Silver	7440-22-4	14.3	0.0135	0.113		2
06145	Thallium	7440-28-0	0.974	0.0338	0.113		2
06148	Vanadium	7440-62-2	105	0.0248	0.113		2
06149	Zinc	7440-66-6	199	0.630	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.231	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.9	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.0	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	681	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	45.7	1.1	5.7		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.9	0.20	0.55		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 21:49	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 06:03	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 16:30	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 04:33	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 20:36	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 09:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 09:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 08:55	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 19:48	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 22:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 21:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 18:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:17	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296048
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 19:37	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:08	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:08	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	05/31/2011 22:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202B	05/31/2011 22:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 20:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 17:19	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:43	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	231		19.1	38.3		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	1,900		19	190		1
04688	Aniline	62-53-3	1,400		190	570		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	2,800	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	570		1
04688	Benzyl alcohol	100-51-6	2,200		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,900		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	2,100		38	190		1
04688	4-Chloroaniline	106-47-8	1,600		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190		1
04688	2-Chlorophenol	95-57-8	2,000		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		38	190		1
04688	Chrysene	218-01-9	1,900		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,000		19	190		1
04688	Diethylphthalate	84-66-2	1,900		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190		1
04688	Dimethylphthalate	131-11-3	1,900		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		190	570		1
04688	2,4-Dinitrophenol	51-28-5	2,000		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	2,100		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	2,000		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380		1
04688	Fluoranthene	206-44-0	1,800		19	190		1
04688	Fluorene	86-73-7	2,000		19	190		1
04688	Hexachlorobenzene	118-74-1	1,800		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500		76	190		1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	570		1
04688	Hexachloroethane	67-72-1	1,500	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,900	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190		1
04688	2-Methylphenol	95-48-7	2,000	38	190		1
04688	4-Methylphenol	106-44-5	2,100	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	2,100	19	190		1
04688	3-Nitroaniline	99-09-2	2,100	38	190		1
04688	4-Nitroaniline	100-01-6	1,700	76	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,900	19	190		1
04688	4-Nitrophenol	100-02-7	1,700	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	2,000	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900	19	190		1
04688	Pentachlorophenol	87-86-5	1,600	190	570		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	2,100	19	190		1
04688	Pyrene	129-00-0	2,000	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	37	0.76	1.9		1
10138	Acenaphthylene	208-96-8	36	0.38	1.9		1
10138	Anthracene	120-12-7	39	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	48	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	54	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	28	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	50	0.76	1.9		1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Butylbenzylphthalate	85-68-7	42		6.9	21		1
10138	Di-n-butylphthalate	84-74-2	45		6.9	21		1
10138	Chrysene	218-01-9	39		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	33		0.76	1.9		1
10138	Diethylphthalate	84-66-2	39		6.9	21		1
10138	Dimethylphthalate	131-11-3	38		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.9	21		1
10138	Fluoranthene	206-44-0	45		0.76	1.9		1
10138	Fluorene	86-73-7	39		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	36		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	32		0.76	1.9		1
10138	Naphthalene	91-20-3	34		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	37		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	54		6.9	21		1
10138	Phenanthrene	85-01-8	40		0.76	1.9		1
10138	Pyrene	129-00-0	36		0.76	1.9		1
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		69	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,500		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,600		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,500		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,500		46	140		1
10132	HMX	2691-41-0	2,200		110	340		1
10132	Nitrobenzene	98-95-3	2,600		46	140		1
10132	Nitroglycerin	55-63-0	55,000		920	2,800		1
10132	2-Nitrotoluene	88-72-2	2,400		92	140		1
10132	3-Nitrotoluene	99-08-1	2,600		110	140		1
10132	4-Nitrotoluene	99-99-0	2,400		92	140		1
10132	PETN	78-11-5	67,000		920	2,800		1
10132	RDX	121-82-4	2,100		57	140		1
10132	Tetryl	479-45-8	1,800		70	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,400		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,500		46	140		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	8.9		1.4	4.1		1
10401	Dalapon	75-99-0	11		5.0	10		1
10401	2,4-DB	94-82-6	6.4		0.71	1.9		1
10401	Dicamba	1918-00-9	0.69	J	0.46	1.4		1
10401	Dinoseb	88-85-7	1.1	J	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.3		0.91	1.9		1
10401	MCPA	94-74-6	710		87	290		1
10401	MCPP (Mecoprop)	93-65-2	740		86	290		1
10401	2,4,5-T	93-76-5	0.56		0.093	0.20		1
10401	2,4,5-TP	93-72-1	0.64		0.086	0.20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,600		690	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.17	J	0.076	0.20		1
01363	Alpha BHC	319-84-6	0.23		0.039	0.20		1
01363	Beta BHC	319-85-7	0.20		0.069	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.24		0.039	0.20		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.42		0.076	0.39		1
01363	p,p-DDE	72-55-9	0.37	J	0.076	0.39		1
01363	p,p-DDT	50-29-3	1.5		0.076	0.39		1
01363	Delta BHC	319-86-8	0.20		0.041	0.20		1
01363	Dieldrin	60-57-1	0.46		0.076	0.39		1
01363	Endosulfan I	959-98-8	0.16	J	0.051	0.20		1
01363	Endosulfan II	33213-65-9	0.39		0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.42		0.076	0.39		1
01363	Endrin	72-20-8	0.41		0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.25	J	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.32	J	0.076	0.39		1
01363	Heptachlor	76-44-8	0.29		0.069	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.20		0.039	0.20		1
01363	Methoxychlor	72-43-5	3.8		0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
	The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. The original data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	4.0		1.1	3.8		1
10225	PCB-1016	12674-11-2	21		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	21		0.45	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	8.1	J	4.6	14		10
10199	EFH (C21-C30)	n.a.	110		4.6	14		10
10199	EFH (C30 - C40)	n.a.	400		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,800		110	570		1
10501	Isopropanol	67-63-0	2,000		110	570		1
10501	Methanol	67-56-1	2,000		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	93		5.7	11		1
08283	Ethylene glycol	107-21-1	150		5.7	11		1
08283	Propylene glycol	57-55-6	160		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.5	4.0		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.8	J	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,600		5.66	22.5		1
07914	Boron	7440-42-8	225		1.00	5.63		1
01650	Calcium	7440-70-2	9,590		6.90	22.5		1
01654	Iron	7439-89-6	31,600		10.6	45.0		2
01656	Lithium	7439-93-2	143		0.25	2.3		1
01657	Magnesium	7439-95-4	7,350		2.86	11.3		1
06958	Manganese	7439-96-5	468		0.0878	0.563		1
10145	Phosphorus	7723-14-0	458		0.630	11.3		1
01662	Potassium	7440-09-7	6,140		20.3	56.3		1
01667	Sodium	7440-23-5	1,240		42.0	113		1
07968	Strontium	7440-24-6	148		0.0698	0.563		1
06969	Tin	7440-31-5	393		1.13	11.3		1
06970	Titanium	7440-32-6	1,980		0.428	1.13		1
10146	Zirconium	7440-67-7	113		0.945	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.51		0.0675	0.225		2

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.4	0.0900	0.450		2
06126	Barium	7440-39-3	159	0.122	0.450		2
06127	Beryllium	7440-41-7	2.10	0.0180	0.113		2
06128	Cadmium	7440-43-9	2.25	0.0450	0.113		2
06131	Chromium	7440-47-3	39.7	0.135	0.450		2
06132	Cobalt	7440-48-4	64.0	0.0225	0.113		2
06133	Copper	7440-50-8	39.0	0.0743	0.450		2
06135	Lead	7439-92-1	28.4	0.0117	0.225		2
06138	Molybdenum	7439-98-7	17.3	0.0563	0.113		2
06139	Nickel	7440-02-0	45.2	0.113	0.450		2
06141	Selenium	7782-49-2	2.97	0.0450	0.450		2
06142	Silver	7440-22-4	16.4	0.0135	0.113		2
06145	Thallium	7440-28-0	1.17	0.0338	0.113		2
06148	Vanadium	7440-62-2	117	0.0248	0.113		2
06149	Zinc	7440-66-6	178	0.630	3.38		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.216	0.0032	0.112		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/08/2011 22:07	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 06:30	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/07/2011 17:02	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 05:15	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 20:46	James H Place	1

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Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 09:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 09:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 09:14	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 20:13	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 22:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 22:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 19:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:20	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 19:40	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/07/2011 00:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:10	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296049
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/07/2011 00:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296050
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,700		5.72	22.7		1
07914	Boron	7440-42-8	1.87	J	1.01	5.68		1
01650	Calcium	7440-70-2	8,480		6.97	22.7		1
01654	Iron	7439-89-6	31,900		10.7	45.5		2
01656	Lithium	7439-93-2	26.6		0.25	2.3		1
01657	Magnesium	7439-95-4	6,920		2.89	11.4		1
06958	Manganese	7439-96-5	435		0.0887	0.568		1
10145	Phosphorus	7723-14-0	344		0.637	11.4		1
01662	Potassium	7440-09-7	4,400		20.5	56.8		1
01667	Sodium	7440-23-5	140		42.4	114		1
07968	Strontium	7440-24-6	39.3		0.0705	0.568		1
06969	Tin	7440-31-5	3.16	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,620		0.432	1.14		1
10146	Zirconium	7440-67-7	6.80		0.955	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.296		0.0675	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.08		0.0900	0.450		2
06126	Barium	7440-39-3	139		0.122	0.450		2
06127	Beryllium	7440-41-7	0.776		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.373		0.0450	0.113		2
06131	Chromium	7440-47-3	28.4		0.135	0.450		2
06132	Cobalt	7440-48-4	9.51		0.0225	0.113		2
06133	Copper	7440-50-8	17.1		0.0743	0.450		2
06135	Lead	7439-92-1	17.2		0.0117	0.225		2
06138	Molybdenum	7439-98-7	1.14		0.0563	0.113		2
06139	Nickel	7440-02-0	20.6		0.113	0.450		2
06141	Selenium	7782-49-2	0.139	J	0.0450	0.450		2
06142	Silver	7440-22-4	0.136		0.0135	0.113		2
06145	Thallium	7440-28-0	0.337		0.0338	0.113		2
06148	Vanadium	7440-62-2	67.4		0.0248	0.113		2
06149	Zinc	7440-66-6	152		0.630	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0155	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.88	J	0.23	1.1		1

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296050
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:13	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 19:33	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:06	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296050
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL022 SDG#: DE159-13DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	05/31/2011 22:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202B	05/31/2011 22:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 20:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 17:53	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:42	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE159-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	42.3		19.0	38.1		1
	The surrogate standard n-nitrosodimethylamine-d6 was outside of the advisory QC windows.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE159-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.8		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	1.5	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	2.1		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.88	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.88	J	0.76	1.9		1
10138	Pyrene	129-00-0	1.7	J	0.76	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1

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Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE159-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.9	J	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	270	J	86	280		1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280		1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19		1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE159-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	4.4		0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.19	J	0.075	0.39		1
01363	p,p-DDT	50-29-3	0.48		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.21	J	0.075	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.086	J	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.075	U	0.075	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. The original data is reported.

Heptachlor epoxide, DDE, and dieldrin are not detected in the reextract. Endosulfan II is detected at .08 ug/kg and mirex is detected at .19 ug/kg in the reextract.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	1.6	J	0.44	1.9		1

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Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE159-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	5.1		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	40		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,300		5.52	22.0		1
07914	Boron	7440-42-8	2.70	J	0.977	5.49		1
01650	Calcium	7440-70-2	49,000		6.73	22.0		1
01654	Iron	7439-89-6	32,100		10.3	43.9		2
01656	Lithium	7439-93-2	28.7		0.24	2.2		1
01657	Magnesium	7439-95-4	7,310		2.79	11.0		1
06958	Manganese	7439-96-5	448		0.0856	0.549		1
10145	Phosphorus	7723-14-0	316		0.615	11.0		1
01662	Potassium	7440-09-7	4,250		19.8	54.9		1
01667	Sodium	7440-23-5	135		40.9	110		1
07968	Strontium	7440-24-6	51.8		0.0681	0.549		1
06969	Tin	7440-31-5	2.79	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,570		0.417	1.10		1
10146	Zirconium	7440-67-7	7.12		0.922	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.353		0.0672	0.224		2

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Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SL023 SDG#: DE159-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.86		0.0895	0.448		2
06126	Barium	7440-39-3	183		0.121	0.448		2
06127	Beryllium	7440-41-7	1.01		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.329		0.0448	0.112		2
06131	Chromium	7440-47-3	33.1		0.134	0.448		2
06132	Cobalt	7440-48-4	10.1		0.0224	0.112		2
06133	Copper	7440-50-8	20.1		0.0739	0.448		2
06135	Lead	7439-92-1	12.8		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.562		0.0560	0.112		2
06139	Nickel	7440-02-0	26.3		0.112	0.448		2
06141	Selenium	7782-49-2	0.0791	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.0701	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.463		0.0336	0.112		2
06148	Vanadium	7440-62-2	87.2		0.0246	0.112		2
06149	Zinc	7440-66-6	86.5		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

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14420 Albemarle Point Place
Suite 210
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SL023 SDG#: DE159-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 17:30	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 17:24	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 16:46	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 05:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 21:05	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 12:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 11:13	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 09:32	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 17:43	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 23:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 22:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 14:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:48	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1

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Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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SL023 SDG#: DE159-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 07:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:33	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 07:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	05/31/2011 23:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202B	05/31/2011 23:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 21:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 18:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201B	05/31/2011 19:45	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201B	05/31/2011 16:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296051
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE159-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-052-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296052
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL052 SDG#: DE159-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296052
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL052 SDG#: DE159-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.6		5
10138	Benzo(a)pyrene	50-32-8	3.8	U	3.8	9.6		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.8	9.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.6		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.6		5
10138	Chrysene	218-01-9	6.8	J	1.9	9.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6		5
10138	Fluoranthene	206-44-0	10		3.8	9.6		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.6		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.6		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6		5
10138	Phenanthrene	85-01-8	4.8	J	3.8	9.6		5
10138	Pyrene	129-00-0	6.1	J	3.8	9.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	J	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.72	U	0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	230	J	88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1

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14420 Albemarle Point Place
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SL052 SDG#: DE159-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.22		0.087	0.20		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.2	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.14	J	0.076	0.39		1
01363	p,p-DDT	50-29-3	0.28	J	0.076	0.39		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.17	J	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.095	U	0.095	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. the original data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate recoveries are low for the reextract. DDE, DDT, endrin aldehyde and chlordane are not detected in the reextract.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.4	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1

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LLI Sample # SW 6296052
LLI Group # 1248215
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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SL052 SDG#: DE159-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	1.4	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,200		5.65	22.4		1
07914	Boron	7440-42-8	2.42	J	0.999	5.61		1
01650	Calcium	7440-70-2	7,210		6.88	22.4		1
01654	Iron	7439-89-6	33,900		10.6	44.9		2
01656	Lithium	7439-93-2	28.1		0.25	2.2		1
01657	Magnesium	7439-95-4	7,510		2.85	11.2		1
06958	Manganese	7439-96-5	466		0.0875	0.561		1
10145	Phosphorus	7723-14-0	335		0.629	11.2		1
01662	Potassium	7440-09-7	5,180		20.2	56.1		1
01667	Sodium	7440-23-5	138		41.9	112		1
07968	Strontium	7440-24-6	41.5		0.0696	0.561		1
06969	Tin	7440-31-5	3.06	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,660		0.427	1.12		1
10146	Zirconium	7440-67-7	7.02		0.943	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.386		0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.16		0.0898	0.449		2
06126	Barium	7440-39-3	133		0.121	0.449		2
06127	Beryllium	7440-41-7	1.09		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.491		0.0449	0.112		2
06131	Chromium	7440-47-3	30.3		0.135	0.449		2
06132	Cobalt	7440-48-4	9.27		0.0224	0.112		2
06133	Copper	7440-50-8	23.4		0.0741	0.449		2
06135	Lead	7439-92-1	16.6		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.649		0.0561	0.112		2
06139	Nickel	7440-02-0	29.8		0.112	0.449		2
06141	Selenium	7782-49-2	0.216	J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0774	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.506		0.0337	0.112		2
06148	Vanadium	7440-62-2	97.1		0.0247	0.112		2
06149	Zinc	7440-66-6	140		0.629	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0038	J	0.0031	0.110		1

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Lancaster Laboratories

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Analysis Report

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SL-052-SA5DN-SS-0.0-0.5

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SL052 SDG#: DE159-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 17:51	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 17:59	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 13:55	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 11:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 09:51	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 09:05	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:47	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/07/2011 00:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:55	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 08:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 08:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 08:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 15:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	05/31/2011 23:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 22:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 18:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-052-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296052
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL052 SDG#: DE159-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296053
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE159-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296053
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE159-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	2.2	J	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	5.9	J	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	9.2	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	34		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	6.3	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Chrysene	218-01-9	15		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	30		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.5	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	18		3.7	9.2		5
10138	Pyrene	129-00-0	19		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1

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Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296053
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE159-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.12	J	0.084	0.19		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	1.5	U	1.5	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.10	U	0.10	0.38		1
01363	p,p-DDT	50-29-3	0.95		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.089	U	0.089	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. Similar results are observed for both. The original data is reported.

The surrogate recovery for the reextract is low.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

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Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296053
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE159-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,200		5.60	22.2		1
07914	Boron	7440-42-8	0.990	U	0.990	5.56		1
01650	Calcium	7440-70-2	9,360		6.82	22.2		1
01654	Iron	7439-89-6	29,800		5.24	22.2		1
01656	Lithium	7439-93-2	19.4		0.24	2.2		1
01657	Magnesium	7439-95-4	5,310		2.83	11.1		1
06958	Manganese	7439-96-5	538		0.0868	0.556		1
10145	Phosphorus	7723-14-0	445		0.623	11.1		1
01662	Potassium	7440-09-7	4,050		20.0	55.6		1
01667	Sodium	7440-23-5	129		41.5	111		1
07968	Strontium	7440-24-6	37.8		0.0690	0.556		1
06969	Tin	7440-31-5	2.88	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,450		0.423	1.11		1
10146	Zirconium	7440-67-7	5.62		0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.351		0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.65		0.0873	0.436		2
06126	Barium	7440-39-3	187		0.118	0.436		2
06127	Beryllium	7440-41-7	0.913		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.461		0.0436	0.109		2
06131	Chromium	7440-47-3	26.4		0.131	0.436		2
06132	Cobalt	7440-48-4	10.6		0.0218	0.109		2
06133	Copper	7440-50-8	20.4		0.0720	0.436		2
06135	Lead	7439-92-1	16.9		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.907		0.0545	0.109		2
06139	Nickel	7440-02-0	24.7		0.109	0.436		2
06141	Selenium	7782-49-2	0.155	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0515	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.425		0.0327	0.109		2
06148	Vanadium	7440-62-2	82.1		0.0240	0.109		2
06149	Zinc	7440-66-6	108		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0043	J	0.0032	0.112		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296053
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE159-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 18:17	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/08/2011 18:30	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 14:22	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 12:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 10:09	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296053
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE159-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:51	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 08:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:58	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:58	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 08:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 08:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 08:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 15:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	06/01/2011 00:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 22:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 18:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296053
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL053 SDG#: DE159-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	19.2	U	19.2	38.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5		5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.5		5
10138	Benzo(a)pyrene	50-32-8	5.7	J	3.8	9.5		5
10138	Benzo(b)fluoranthene	205-99-2	5.1	J	3.8	9.5		5
10138	Benzo(g,h,i)perylene	191-24-2	4.1	J	3.8	9.5		5
10138	Benzo(k)fluoranthene	207-08-9	11		3.8	9.5		5
10138	Chrysene	218-01-9	6.9	J	1.9	9.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.5		5
10138	Fluoranthene	206-44-0	16		3.8	9.5		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.5		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5		5
10138	Phenanthrene	85-01-8	11		3.8	9.5		5
10138	Pyrene	129-00-0	11		3.8	9.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	99	U	99	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.16	J	0.086	0.20		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite florisil cleanup, our usual reporting limits were not attained.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	2.6	U	2.6	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.13	U	0.13	0.39		1
01363	p,p-DDT	50-29-3	0.65		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.097	U	0.097	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. Similar results are observed for both. The original data is reported.

The surrogate recovery for the reextractr is low.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1

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Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	5.6	J	4.6	14		10
10199	EFH (C15-C20)	n.a.	30		4.6	14		10
10199	EFH (C21-C30)	n.a.	81		4.6	14		10
10199	EFH (C30 - C40)	n.a.	250		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,900		5.79	23.0		1
07914	Boron	7440-42-8	2.14	J	1.02	5.75		1
01650	Calcium	7440-70-2	9,310		7.05	23.0		1
01654	Iron	7439-89-6	31,500		10.8	46.0		2
01656	Lithium	7439-93-2	26.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,720		2.92	11.5		1
06958	Manganese	7439-96-5	427		0.0898	0.575		1
10145	Phosphorus	7723-14-0	333		0.644	11.5		1
01662	Potassium	7440-09-7	4,320		20.7	57.5		1
01667	Sodium	7440-23-5	139		42.9	115		1
07968	Strontium	7440-24-6	38.0		0.0713	0.575		1
06969	Tin	7440-31-5	3.12	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,590		0.437	1.15		1
10146	Zirconium	7440-67-7	6.81		0.967	5.75		1

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Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.457		0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.68		0.0911	0.456		2
06126	Barium	7440-39-3	145		0.308	1.14		5
06127	Beryllium	7440-41-7	1.07		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.573		0.0456	0.114		2
06131	Chromium	7440-47-3	29.7		0.137	0.456		2
06132	Cobalt	7440-48-4	9.39		0.0228	0.114		2
06133	Copper	7440-50-8	25.7		0.0752	0.456		2
06135	Lead	7439-92-1	22.5		0.0118	0.228		2
06138	Molybdenum	7439-98-7	1.32		0.0570	0.114		2
06139	Nickel	7440-02-0	30.8		0.114	0.456		2
06141	Selenium	7782-49-2	0.210	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0939	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.494		0.0342	0.114		2
06148	Vanadium	7440-62-2	102		0.0251	0.114		2
06149	Zinc	7440-66-6	195		1.60	8.55		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0303	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLE026	06/10/2011 17:48	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 18:44	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/09/2011 15:14	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLE026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 06:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	2	111520004A	06/03/2011 21:14	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 14:50	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 22:17	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 12:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 10:28	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111520004A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480002A	06/01/2011 20:38	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/25/2011 23:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111450001A	05/26/2011 22:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 22:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480002A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111450001A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1

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Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/02/2011 08:52	Eric L Eby	2
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:15	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 08:19	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 00:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 00:35	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 07:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 07:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 07:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 08:19	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 14:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	06/01/2011 00:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621202B	06/01/2011 00:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 22:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11152243201A	06/03/2011 18:50	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11151102201A	05/31/2011 19:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11151102201A	05/31/2011 16:10	Carolyn M Mastropietro	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296054
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP05 SDG#: DE159-17FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB05-SA5DN-SS-052311 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5DN-SS-052311

LLI Sample # WW 6296055
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:05

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE159-18EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.07		0.493	0.985		1
GC/MS Semivolatiles SW-846 8270C			**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1

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SSFL Area IV Collocated Soil Sampling
EB05-SA5DN-SS-052311

LLI Sample # WW 6296055
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:05

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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EB-05 SDG#: DE159-18EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0098	U	0.0098	0.049		1
10137	Acenaphthylene	208-96-8	0.0098	U	0.0098	0.049		1
10137	Anthracene	120-12-7	0.0098	U	0.0098	0.049		1
10137	Benzo(a)anthracene	56-55-3	0.0098	U	0.0098	0.049		1
10137	Benzo(a)pyrene	50-32-8	0.0098	U	0.0098	0.049		1
10137	Benzo(b)fluoranthene	205-99-2	0.0098	U	0.0098	0.049		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0098	U	0.0098	0.049		1
10137	Benzo(k)fluoranthene	207-08-9	0.0098	U	0.0098	0.049		1
10137	Butylbenzylphthalate	85-68-7	0.073	J	0.049	0.98		1
10137	Di-n-butylphthalate	84-74-2	0.13	J	0.049	0.98		1
10137	Chrysene	218-01-9	0.0098	U	0.0098	0.049		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0098	U	0.0098	0.049		1
10137	Diethylphthalate	84-66-2	0.049	U	0.049	0.98		1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.98		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.21	J	0.049	0.98		1
10137	Fluoranthene	206-44-0	0.0098	U	0.0098	0.049		1
10137	Fluorene	86-73-7	0.0098	U	0.0098	0.049		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0098	U	0.0098	0.049		1
10137	1-Methylnaphthalene	90-12-0	0.034	J	0.0098	0.049		1
10137	2-Methylnaphthalene	91-57-6	0.034	J	0.0098	0.049		1
10137	Naphthalene	91-20-3	0.23		0.029	0.049		1
10137	N-Nitrosodimethylamine	62-75-9	0.0098	U	0.0098	0.049		1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.98		1
10137	Phenanthrene	85-01-8	0.0098	U	0.0098	0.049		1
10137	Pyrene	129-00-0	0.0098	U	0.0098	0.049		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1

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EB-05 SDG#: DE159-18EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49		1
10407	Dalapon	75-99-0	0.25	U	0.25	1.2		1
10407	2,4-DB	94-82-6	0.30	U	0.30	0.98		1
10407	Dicamba	1918-00-9	0.079	U	0.079	0.30		1
10407	Dinoseb	88-85-7	0.098	U	0.098	0.49		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49		1
10407	MCPA	94-74-6	300	U	300	980		1
10407	MCPP	93-65-2	49	U	49	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049		1
10407	2,4,5-TP	93-72-1	0.0098	U	0.0098	0.049		1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
	The LCS/LCSD recovery for formaldehyde is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0098		1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0098		1
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0098		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0098		1

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LLI Sample # WW 6296055
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EB-05 SDG#: DE159-18EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Chlordane	57-74-9	0.12	U	0.12	0.49		1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.020		1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.020		1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.020		1
00177	Delta BHC	319-86-8	0.0028	U	0.0028	0.0098		1
00177	Dieldrin	60-57-1	0.0052	U	0.0052	0.020		1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0098		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0057	U	0.0057	0.020		1
00177	Endrin	72-20-8	0.0079	U	0.0079	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.098		1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.020		1
00177	Heptachlor	76-44-8	0.0025	U	0.0025	0.0098		1
00177	Heptachlor Epoxide	1024-57-3	0.0022	U	0.0022	0.0098		1
00177	Methoxychlor	72-43-5	0.029	U	0.029	0.098		1
00177	Mirex	2385-85-5	0.083	U	0.083	0.24		1
00177	Toxaphene	8001-35-2	0.98	U	0.98	2.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C15-C20)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C21-C30)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C30 - C40)	n.a.	0.097	U	0.097	0.58		1
10365	EFH (C8-C11)	n.a.	0.097	U	0.097	0.58		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.078	U	0.078	0.24		1
10319	o-Terphenyl	84-15-1	0.078	U	0.078	0.24		1
10319	p-Terphenyl	92-94-4	0.078	U	0.078	0.24		1
	The surrogate data is outside the QC limits. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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EB-05 SDG#: DE159-18EB

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Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1

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Analysis Report

Sample Description: EB05-SA5DN-SS-052311 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5DN-SS-052311

LLI Sample # WW 6296055
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:05

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE159-18EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9040B**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.4	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11144WAA026	05/25/2011 19:09	Gregory J Drahovsky	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11146WAD026	06/06/2011 00:06	Linda M Hartenstine	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11144WAK026	05/26/2011 13:29	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11146WAD026	05/26/2011 16:00	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11144WAK026	05/25/2011 09:50	Catherine R Wiker	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11144WAA026	05/24/2011 13:25	Wanda F Oswald	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111580002A	06/09/2011 00:05	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111440027A	05/27/2011 00:09	Michele D Hamilton	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111450014A	05/27/2011 00:36	Michele D Hamilton	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111460040A	06/03/2011 06:26	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111460041A	05/28/2011 14:10	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111460041A	05/27/2011 14:00	Kelli M Barto	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111460040A	05/27/2011 14:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111450014A	05/25/2011 20:00	Elaine F Stoltzfus	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111440027A	05/25/2011 08:30	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	2	111580002A	06/07/2011 18:00	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111450031A	06/03/2011 01:53	Heather E Williams	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111450009A	05/26/2011 19:06	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111450031A	05/26/2011 08:00	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	111450009A	05/25/2011 17:30	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1

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Analysis Report

Sample Description: EB05-SA5DN-SS-052311 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5DN-SS-052311

LLI Sample # WW 6296055
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:05

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB-05 SDG#: DE159-18EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	111441848008	05/26/2011 04:05	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111446050005D	05/27/2011 17:11	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111446050005C	05/27/2011 17:11	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111446050005B	05/27/2011 17:11	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06045	Thallium	SW-846 6020	2	111536050004A	06/03/2011 06:49	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111446050005A	05/27/2011 17:11	Choon Y Tian	1
00259	Mercury	SW-846 7470A	2	111465713002	05/31/2011 15:11	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111441848008	05/25/2011 10:52	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111446050005	05/25/2011 11:46	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	111536050004	06/02/2011 23:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111465713002	05/26/2011 15:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11144196901B	05/25/2011 05:58	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 15:31	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11143495401B	05/24/2011 11:58	Parker D Lindstrom	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11146117101B	05/26/2011 19:00	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11146117101B	05/26/2011 09:40	Nancy J Shoop	1
00200	18b pH by 9040B	SW-846 9040B	1	11144020001A	05/24/2011 19:50	Luz M Groff	1

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Analysis Report

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296056
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SED35 SDG#: DE159-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380		1
04688	Fluoranthene	206-44-0	37	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296056
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SED35 SDG#: DE159-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	25	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	34	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-nitrophenol 4-bromophenyl-phenylether hexachlorobenzene hexachlorobutadiene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5		5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5		5
10138	Benzo(a)anthracene	56-55-3	8.2	J	3.8	9.5		5
10138	Benzo(a)pyrene	50-32-8	12		3.8	9.5		5
10138	Benzo(b)fluoranthene	205-99-2	23		3.8	9.5		5
10138	Benzo(g,h,i)perylene	191-24-2	7.3	J	3.8	9.5		5
10138	Benzo(k)fluoranthene	207-08-9	6.6	J	3.8	9.5		5
10138	Chrysene	218-01-9	14		1.9	9.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.5		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.0	J	3.8	9.5		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	14	U	14	41		10
10401	Dalapon	75-99-0	51	U	51	100		10
10401	2,4-DB	94-82-6	7.1	U	7.1	20		10
10401	Dicamba	1918-00-9	4.6	U	4.6	14		10
10401	Dinoseb	88-85-7	9.2	U	9.2	28		10
10401	2,4-DP (Dichlorprop)	120-36-5	9.2	U	9.2	20		10
10401	MCPA	94-74-6	880	U	880	2,900		10
10401	MCPP (Mecoprop)	93-65-2	11,000	U	11,000	11,000		10

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296056
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SED35 SDG#: DE159-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	1.0	U	1.0	2.0		10
10401	2,4,5-TP	93-72-1	1.4	J	0.86	2.0		10

Reporting limits were raised due to interference from the sample matrix.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4,5-T

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.39	U	0.39	1.9		10
01363	Beta BHC	319-85-7	0.69	U	0.69	1.9		10
01363	Gamma BHC - Lindane	58-89-9	2.3	U	2.3	2.3		10
01363	Chlordane	57-74-9	5.1	U	5.1	5.1		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.42	U	0.42	0.42		1
01363	p,p-DDT	50-29-3	0.37	J	0.076	0.39		1
01363	Delta BHC	319-86-8	0.42	U	0.42	1.9		10
01363	Dieldrin	60-57-1	0.20	U	0.20	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

The tetrachloro-m-xylene surrogate recovery is outside the lower QC limit for the associated method blank. The samples were reextracted outside the method hold time. The surrogate recoveries for the method blank associated with the reextraction are within the QC limits. Similar sample results are observed for both.

Reporting limits were raised due to interference from the sample matrix.

The surrogate recovery for the reextract is low.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296056
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SED35 SDG#: DE159-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	2.7	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	4.8		0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.3		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,420		5.82	23.1		1
07914	Boron	7440-42-8	1.03	U	1.03	5.79		1
01650	Calcium	7440-70-2	8,220		7.09	23.1		1
01654	Iron	7439-89-6	10,300		5.45	23.1		1
01656	Lithium	7439-93-2	11.1		0.25	2.3		1
01657	Magnesium	7439-95-4	2,250		2.94	11.6		1
06958	Manganese	7439-96-5	162		0.0903	0.579		1
10145	Phosphorus	7723-14-0	356		0.648	11.6		1
01662	Potassium	7440-09-7	1,580		20.8	57.9		1
01667	Sodium	7440-23-5	113	J	43.2	116		1
07968	Strontium	7440-24-6	26.4		0.0718	0.579		1
06969	Tin	7440-31-5	2.36	J	1.16	11.6		1
06970	Titanium	7440-32-6	637		0.440	1.16		1
10146	Zirconium	7440-67-7	1.91	J	0.972	5.79		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.306		0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.05		0.0908	0.454		2
06126	Barium	7440-39-3	77.2		0.123	0.454		2
06127	Beryllium	7440-41-7	0.336		0.0182	0.113		2
06128	Cadmium	7440-43-9	0.512		0.0454	0.113		2
06131	Chromium	7440-47-3	10.8		0.136	0.454		2
06132	Cobalt	7440-48-4	2.74		0.0227	0.113		2
06133	Copper	7440-50-8	9.14		0.0749	0.454		2
06135	Lead	7439-92-1	14.7		0.0118	0.227		2
06138	Molybdenum	7439-98-7	1.11		0.0567	0.113		2
06139	Nickel	7440-02-0	9.45		0.113	0.454		2
06141	Selenium	7782-49-2	0.154	J	0.0454	0.454		2
06142	Silver	7440-22-4	0.220		0.0136	0.113		2
06145	Thallium	7440-28-0	0.185		0.0340	0.113		2
06148	Vanadium	7440-62-2	24.0		0.0250	0.113		2
06149	Zinc	7440-66-6	146		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296056
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SED35 SDG#: DE159-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131 J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.19	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	13.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11145SLD026	06/02/2011 19:10	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11145SLF026	06/09/2011 15:44	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11145SLF026	05/26/2011 09:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11145SLD026	05/26/2011 09:15	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/31/2011 13:33	Michele D Hamilton	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 13:02	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470004A	06/04/2011 13:15	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111460034A	06/03/2011 10:46	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470004A	05/28/2011 10:50	Denise L Trimby	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111460034A	05/27/2011 15:00	Sally L Appleyard	1

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Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296056
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SED35 SDG#: DE159-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
07914	Boron	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
01654	Iron	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
06969	Tin	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111515708001	06/01/2011 20:54	John P Hook	1
06124	Antimony	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111541026001D	06/06/2011 08:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111541026001A	06/07/2011 01:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	111541026001A	06/07/2011 01:04	David K Beck	2
06133	Copper	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111541026001C	06/06/2011 08:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111541026001B	06/06/2011 08:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111541026001A	06/06/2011 08:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711001	06/01/2011 15:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708001	05/31/2011 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111541026001	06/05/2011 21:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711001	05/31/2011 10:08	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621202B	06/01/2011 00:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153621201B	06/05/2011 23:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11152243201A	06/03/2011 18:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621202B	05/31/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153621201B	06/02/2011 08:45	William L Hamaker Jr	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296056
LLI Group # 1248215
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/20/2011 09:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SED35 SDG#: DE159-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11145039403B	05/25/2011 22:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11152243201A	06/01/2011 20:15	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111471AA	Sample number(s): 6296035-6296037,6296039									
Acetone	9.6		6.7	8.0	ug/kg	159	153	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	103	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99	98	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	106	101	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100	96	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	93	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	73	73	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	134	124	46-153	8	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	102	102	72-120	0	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	103	103	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	102	100	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	99	69-122	6	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103	100	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	67	67	37-154	0	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95	91	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	107	101	80-120	6	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	81	80	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99	99	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	102	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	98	101	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	101	96	58-120	5	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	103	99	80-120	5	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100	96	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101	100	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97	97	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71	67	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	106	102	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	106	103	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108	103	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	99	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	100	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	99	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104	101	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	96	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	102	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	96	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	93	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104	103	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	106	99	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	77*	77*	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	90	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	123	118	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	105	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	103	99	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107	101	61-134	5	30
Methylene Chloride	1.1	J	0.24	4.0	ug/kg	110	103	76-124	6	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108	107	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	104	102	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	101	99	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	94	71-123	4	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103	99	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	102	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	94	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	99	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	99	80-120	3	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	89	83	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	97	95	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	102	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104	103	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	81	79	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	106	105	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	103	103	80-120	1	30
Batch number: E111461AA	Sample number(s): 6296041									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	97	106	80-123	9	30
Batch number: E111462AA	Sample number(s): 6296035-6296037,6296039									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	104	70-130	0	30
Batch number: L111471AA	Sample number(s): 6296041									
Acetone	6	U	6.	20	ug/l	134	111	49-234	19	30
Benzene	0.5	U	0.5	5	ug/l	97	98	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	78	80	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	102	103	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	105	97	66-151	8	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	94	78-120	4	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	93	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	103	103	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	92	93	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	96	97	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	99	100	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	92	91	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	87	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	87	87	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	90	90	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	97	96	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	90	90	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	95	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	97	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	88	89	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	91	93	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	91	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	87	91	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	88	90	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	105	101	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	81	84	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	93	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	94	96	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	91	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	92	92	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	90	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	95	96	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	95	93	80-120	3	30
Styrene	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	89	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	100	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	82	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	101	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	95	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	96	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	93	94	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	99	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	95	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Batch number: 11144WAA026	Sample number(s): 6296055									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	104	96	70-130	8	30
Batch number: 11144WAK026	Sample number(s): 6296055									
Acenaphthene	0.010	U	0.010	0.050	ug/l	96	99	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	98	103	70-110	6	30
Anthracene	0.010	U	0.010	0.050	ug/l	102	104	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	103	105	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	142*	146*	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	145*	148*	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	147*	152*	57-131	4	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	143*	147*	59-130	3	30
Butylbenzylphthalate	0.070	J	0.050	1.0	ug/l	105	109	40-138	4	30
Di-n-butylphthalate	0.082	J	0.050	1.0	ug/l	102	105	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	101	103	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	147*	153*	55-134	4	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	98	102	57-134	4	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	97	103	40-119	6	30
Bis(2-Ethylhexyl)phthalate	0.11	J	0.050	1.0	ug/l	121	124	57-154	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.010	U	0.010	0.050	ug/l	102	104	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	102	107	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	147*	152*	69-124	3	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	101	96	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	90	85	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	97	96	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	63	69	36-89	9	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	144	152*	57-145	6	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	97	99	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	96	98	69-118	2	30
Batch number: 11145SLD026	Sample number(s): 6296035-6296040,6296042-6296049,6296051-6296054,6296056									
Acenaphthene	17	U	17.	170	ug/kg	81		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	85		75-122		
Aniline	170 U		170.	500	ug/kg	63		34-94		
Anthracene	17	U	17.	170	ug/kg	84		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	38		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	85		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	87		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	87		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	82		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	83		67-125		
Benzoic acid	170 U		170.	500	ug/kg	104		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	75*		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	91		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	84		79-112		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	78		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	82		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	82		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	84		79-110		
Chrysene	17	U	17.	170	ug/kg	85		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	82		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	86		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	80		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	77		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	78		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	88		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	89		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	85		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	94		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	85		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	88		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	97		73-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	88		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	77		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	90		75-117		
Fluoranthene	17	U	17.	170	ug/kg	89		78-116		
Fluorene	17	U	17.	170	ug/kg	87		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	75*		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	66*		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	70		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	76		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	86		64-119		
Isophorone	17	U	17.	170	ug/kg	82		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	84		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	81		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
Naphthalene	17	U	17.	170	ug/kg	79		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	79		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	80*		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	76		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	81		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	87		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	77		51-117		
Phenanthrene	17	U	17.	170	ug/kg	81		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	87		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	74		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	84		78-111		

Batch number: 11145SLF026 Sample number(s): 6296035-6296040,6296042-6296049,6296051-6296054,6296056

Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	119		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	129		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	122		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	132		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	123		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	103		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	103		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	123		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.67	U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	82		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	134		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11146SLE026	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 11146WAD026	Sample number(s): 6296055									
Aniline	1	U	1.	5	ug/l	71	76	49-101	6	30
Benzidine	20	U	20.	60	ug/l	68	74	34-117	9	30
Benzoic acid	6	U	6.	15	ug/l	44	26	10-69	51*	30
Benzyl alcohol	5	U	5.	15	ug/l	81	79	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	91	92	82-117	0	30
Carbazole	1	U	1.	5	ug/l	96	94	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	96	91	70-123	5	30
4-Chloroaniline	1	U	1.	5	ug/l	70	80	42-124	13	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	93	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	91	89	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	90	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	95	97	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	97	92	77-108	6	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	93	92	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	94	93	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	86	84	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	86	85	50-119	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	86	84	53-119	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	67	74	49-111	10	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	95	90	80-109	5	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	92	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	104	99	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	100	93	78-119	8	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	100	84	52-131	18	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	96	81-115	2	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	94	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	99	96	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	94	92	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	90	88	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	77	76	36-118	1	30
Hexachloroethane	1	U	1.	5	ug/l	82	81	52-113	1	30
Isophorone	1	U	1.	5	ug/l	94	94	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	84	82	64-101	3	30
4-Methylphenol	2	U	2.	5	ug/l	78	76	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	99	96	83-116	3	30
3-Nitroaniline	1	U	1.	5	ug/l	95	91	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	78	79	59-100	1	30
Nitrobenzene	1	U	1.	5	ug/l	92	92	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	93	93	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	47	46	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	91	90	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	94	92	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	98	90	53-110	8	30
Phenol	1	U	1.	5	ug/l	41	39	21-67	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	87	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	93	79-107	6	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	96	94	81-113	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11151A20A	Sample number(s): 6296041									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11151B34A	Sample number(s): 6296036									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	74	67-119	8	30
Batch number: 111510006A	Sample number(s): 6296035-6296038,6296042-6296043,6296045-6296049,6296051,6296054									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	96	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	96	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
HMX	100 U		100.	300	ug/kg	97		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	113		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	106		80-120		
PETN	800 U		800.	2,400	ug/kg	116		80-120		
RDX	50	U	50.	120	ug/kg	100		75-131		
Tetryl	61	U	61.	120	ug/kg	104		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 111580002A	Sample number(s): 6296055									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	97	96	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	100	99	72-141	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	99	96	53-129	3	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 111440027A	Sample number(s): 6296055									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	62*	68*	69-130	9	30
Batch number: 111520004A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	94		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111450014A	Sample number(s): 6296055									
2,4-D	0.16	U	0.16	0.50	ug/l	120	116	73-157	3	30
Dalapon	0.25	U	0.25	1.3	ug/l	63	70	40-100	10	30
2,4-DB	0.30	U	0.30	1.0	ug/l	116	112	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	96	92	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	74	74	32-91	0	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	120	76-170	3	30
MCPA	300 U		300.	1,000	ug/l	90	88	65-128	2	30
MCPP	50	U	50.	200	ug/l	96	96	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	112	108	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104	108	63-134	4	30
Batch number: 111450020A	Sample number(s): 6296042-6296049,6296051-6296054,6296056									
2,4-D	1.2	U	1.2	3.6	ug/kg	95		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	49		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	100		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	78		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	103		62-170		
MCPA	76	U	76.	250	ug/kg	71		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	101		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	83		68-114		
Batch number: 111520014A	Sample number(s): 6296036,6296039-6296040,6296042,6296054									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111460034A	Sample number(s): 6296035-6296040,6296042-6296049,6296051-6296054,6296056									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	81		36-106		
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	103		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111460040A	Sample number(s): 6296055									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	111	54-159	10	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	103	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	120	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	116	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	114	114	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	125	125	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	120	120	68-128	0	30
Endosulfan II	0.59		0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	110	115	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	105	52-132	21	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	130	125	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	120	130*	57-126	8	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	102	112	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	120	52-133	0	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111460041A	Sample number(s): 6296055									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	72	84	35-84	15	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	100	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	96	102	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111470004A	Sample number(s): 6296042-6296049,6296051-6296054,6296056									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	112		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	91		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	115		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	131		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	119		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	104		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	100		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	97		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	112		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	110		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	94		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	98		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	100		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	126*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111450031A	Sample number(s): 6296055									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	100	92	69-125	8	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	104	96	77-125	8	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	92	68-124	8	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	93	80-121	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	78	72	46-103	8	30
Batch number: 111480002A	Sample number(s): 6296042-6296043,6296045-6296049,6296051,6296054									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	100		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		69-132		
EFH (C30 - C40)	0.76	J	0.40	1.2	mg/kg	95		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		54-107		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111570011A	Sample number(s): 6296036								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	88		71-118		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	92		67-127		
EFH (C8-C11)	0.40 J	0.40	1.2	mg/kg	70		54-107		
Batch number: 111450001A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054								
Diethylene glycol	5.0 U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0 U	5.0	10	mg/kg	92		65-122		
Propylene glycol	5.0 U	5.0	10	mg/kg	90		75-125		
Batch number: 111450035A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054								
Ethanol	100 U	100.	500	ug/kg	91		71-129		
Isopropanol	100 U	100.	500	ug/kg	92		75-125		
Methanol	100 U	100.	500	ug/kg	94		68-129		
Batch number: 111450009A	Sample number(s): 6296055								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	79	79	75-125	0	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	94	91	75-125	3	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	88	86	75-125	2	20
Batch number: 111510027A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111441848008	Sample number(s): 6296055								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	97	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	92	93	89-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	100	100	90-112	0	20
Iron	0.0522 U	0.0522	0.200	mg/l	100	101	90-112	2	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	97	97	80-120	0	20
Magnesium	0.0172 U	0.0172	0.100	mg/l	98	99	89-110	0	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	100	101	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	97	98	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	97	95	85-115	3	20
Sodium	0.433 U	0.433	1.00	mg/l	96	96	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	99	101	90-110	2	20
Tin	0.0098 U	0.0098	0.0200	mg/l	97	98	90-110	1	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	101	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	102	80-120	1	20
Batch number: 111446050005A	Sample number(s): 6296055								
Antimony	0.00030 U	0.00030	0.0010	mg/l	101	98	87-110	3	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	101	108	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	110	107	90-112	3	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	104	105	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	105	102	90-118	3	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	100	99	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	99	97	90-113	2	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	105	104	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	105	90-113	1	20
Silver	0.000080	0.00008	0.00050	mg/l	102	104	90-115	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U	0							
Vanadium	0.00016 U	0.00016	0.00050	mg/l	106	102	89-116	5	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	105	105	90-116	0	20
Batch number: 111446050005B	Sample number(s): 6296055								
Selenium	0.00025 U	0.00025	0.0020	mg/l	98	101	85-114	3	20
Batch number: 111446050005C	Sample number(s): 6296055								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	103	89-115	1	20
Batch number: 111446050005D	Sample number(s): 6296055								
Barium	0.00053 U	0.00053	0.0020	mg/l	105	102	88-113	3	20
Batch number: 111465713002	Sample number(s): 6296055								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	97	97	80-120	1	20
Batch number: 111515708001	Sample number(s): 6296035-6296040,6296042-6296054,6296056								
Aluminum	5.03 U	5.03	20.0	mg/kg	104		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	96		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	105		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	103		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	105		89-112		
Phosphorus	1.10 J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	103		78-110		
Sodium	37.3 U	37.3	100	mg/kg	101		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.58 J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	120		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111515711001	Sample number(s): 6296035-6296040,6296042-6296054,6296056								
Mercury	0.0029 U	0.0029	0.0997	mg/kg	91		88-123		
Batch number: 111536050004A	Sample number(s): 6296055								
Thallium	0.00015 U	0.00015	0.00050	mg/l	105	106	89-116	1	20
Batch number: 111541026001A	Sample number(s): 6296035-6296040,6296042-6296054,6296056								
Antimony	0.0600 U	0.0600	0.200	mg/kg	121		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	102		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	100		82-118		
Copper	0.0807 J	0.0660	0.400	mg/kg	97		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	100		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	102		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	99		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	102		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	102		81-112		
Batch number: 111541026001B	Sample number(s): 6296035-6296040,6296042-6296054,6296056								
Selenium	0.0400 U	0.0400	0.400	mg/kg	102		83-111		
Batch number: 111541026001C	Sample number(s): 6296035-6296040,6296042-6296054,6296056								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 111541026001D	Sample number(s): 6296035-6296040,6296042-6296054,6296056								
Barium	0.108 U	0.108	0.400	mg/kg	101		81-111		
Batch number: 11143495401B	Sample number(s): 6296055								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	103	102	90-110	1	20
Batch number: 11144196901B	Sample number(s): 6296055								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	91	91	90-110	1	20
Batch number: 11146117101B	Sample number(s): 6296055								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	103	102	90-110	2	20
Batch number: 11151102201A	Sample number(s): 6296036,6296042-6296043,6296045-6296048,6296050,6296054								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	107		80-120		
Batch number: 11151102201B	Sample number(s): 6296051								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	107		80-120		
Batch number: 11151621202A	Sample number(s): 6296035-6296040,6296042-6296045								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11151621202B	Sample number(s): 6296046-6296048,6296050-6296054,6296056								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11152243201A	Sample number(s): 6296035-6296040,6296042-6296048,6296050-6296054,6296056								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	98		80-120		
Batch number: 11153621201A	Sample number(s): 6296035-6296040,6296042-6296045								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11153621201B	Sample number(s): 6296046-6296048,6296050-6296054,6296056								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	96		85-115		
Batch number: 11154621701A	Sample number(s): 6296055								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11144020001A	Sample number(s): 6296055								
18b pH by 9040B					100	100	90-110	0	3
Batch number: 11145039403A	Sample number(s): 6296035-6296040,6296042-6296044								
18a pH by 9045C					100		95-105		
Batch number: 11145039403B	Sample number(s): 6296045-6296047,6296050-6296054,6296056								
18a pH by 9045C					100		95-105		
Batch number: 11153162401B	Sample number(s): 6296039-6296040,6296044,6296052-6296053,6296056								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162402A	Sample number(s): 6296035-6296038,6296042-6296043,6296045-6296050								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11160162402B	Sample number(s): 6296051,6296054								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111462AA	Sample number(s): 6296035-6296037,6296039 UNSPK: P298873								
1,4-Dioxane	103	111	70-130	18	30				
Batch number: 11145SLD026	Sample number(s): 6296035-6296040,6296042-6296049,6296051-6296054,6296056 UNSPK: 6296047								
Acenaphthene	95	98	75-115	3	30				
Acenaphthylene	100	102	81-110	2	30				
Aniline	73	76	35-95	3	30				
Anthracene	98	98	75-115	0	30				
Benzidine	26*	29*	35-141	12	30				
Benzo(a)anthracene	101	99	65-122	2	30				
Benzo(a)pyrene	98	101	57-126	3	30				
Benzo(b)fluoranthene	97	99	59-125	2	30				
Benzo(g,h,i)perylene	101	101	59-127	1	30				
Benzo(k)fluoranthene	96	97	56-132	1	30				
Benzoic acid	57	62	10-173	9	30				
Benzyl alcohol	109	115	67-115	6	30				
4-Bromophenyl-phenylether	89	88	67-129	2	30				
Butylbenzylphthalate	112	108	73-134	4	30				
Di-n-butylphthalate	94	95	67-123	1	30				
Carbazole	99	101	64-120	2	30				
4-Chloro-3-methylphenol	109	111*	76-110	2	30				
4-Chloroaniline	76	82	23-95	8	30				
bis(2-Chloroethoxy)methane	89	91	75-104	3	30				
bis(2-Chloroethyl)ether	87	95	60-116	8	30				
bis(2-Chloroisopropyl)ether	86	93	55-142	7	30				
2-Chloronaphthalene	142*	83	50-141	53*	30				
2-Chlorophenol	101	106	73-121	5	30				
4-Chlorophenyl-phenylether	97	100	80-109	2	30				
Chrysene	99	99	62-128	0	30				
Dibenz(a,h)anthracene	102	101	65-125	1	30				
Dibenzofuran	100	101	71-112	1	30				
1,2-Dichlorobenzene	78	89	66-108	13	30				
1,3-Dichlorobenzene	75	85	63-109	12	30				
1,4-Dichlorobenzene	77	87	70-100	11	30				
3,3'-Dichlorobenzidine	77	78	16-119	1	30				
2,4-Dichlorophenol	103	103	78-117	0	30				
Diethylphthalate	99	101	66-118	1	30				
2,4-Dimethylphenol	93	95	78-110	3	30				
3,5-Dimethylphenol	106	107	70-130	0	30				
Dimethylphthalate	96	98	64-118	2	30				
4,6-Dinitro-2-methylphenol	78	70	24-116	10	30				
2,4-Dinitrophenol	66	53	20-143	22	30				
2,4-Dinitrotoluene	108	109	73-113	1	30				
2,6-Dinitrotoluene	102	102	69-123	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	93	94	71-129	1	30				
bis(2-Ethylhexyl)phthalate	113	106	63-122	6	30				
Fluoranthene	91	96	73-112	5	30				
Fluorene	101	104	77-111	3	30				
Hexachlorobenzene	93	95	77-114	1	30				
Hexachlorobutadiene	71	78	62-120	10	30				
Hexachlorocyclopentadiene	68	71	10-153	4	30				
Hexachloroethane	71	81	57-109	13	30				
Indeno(1,2,3-cd)pyrene	101	104	61-126	3	30				
Isophorone	94	96	73-102	3	30				
1-Methylnaphthalene	97	102	73-112	5	30				
2-Methylnaphthalene	91	94	76-114	3	30				
2-Methylphenol	99	105	75-111	6	30				
4-Methylphenol	108	111	71-111	3	30				
Naphthalene	88	91	72-116	3	30				
2-Nitroaniline	112	110	67-125	1	30				
3-Nitroaniline	111	112	59-122	0	30				
4-Nitroaniline	91	91	52-112	0	30				
Nitrobenzene	90	92	72-106	2	30				
2-Nitrophenol	99	97	74-115	2	30				
4-Nitrophenol	92	90	54-113	2	30				
N-Nitroso-di-n-propylamine	96	104	60-116	8	30				
N-Nitrosodimethylamine	86	88	47-116	2	30				
N-Nitrosodiphenylamine	92	94	86-145	2	30				
Di-n-octylphthalate	99	101	56-126	1	30				
Pentachlorophenol	86	84	28-127	2	30				
Phenanthrene	94	97	65-125	3	30				
Phenol	104	111	58-126	6	30				
Pyrene	110	102	74-126	8	30				
1,2,4-Trichlorobenzene	85	89	72-115	5	30				
2,4,5-Trichlorophenol	100	103	78-109	2	30				
2,4,6-Trichlorophenol	101	105	77-115	3	30				
Batch number: 11145SLF026	Sample number(s): 6296035-6296040,6296042-6296049,6296051-6296054,6296056 UNSPK: 6296047								
Acenaphthene	102	97	63-105	5	30				
Acenaphthylene	99	95	67-114	4	30				
Anthracene	105	102	60-122	3	30				
Benzo(a)anthracene	98	99	59-128	1	30				
Benzo(a)pyrene	126	125	45-138	0	30				
Benzo(b)fluoranthene	135	137	43-155	2	30				
Benzo(g,h,i)perylene	84	74	33-141	13	30				
Benzo(k)fluoranthene	129	130	42-144	1	30				
Butylbenzylphthalate	104	111	57-173	6	30				
Di-n-butylphthalate	122	117	65-148	4	30				
Chrysene	98	100	48-134	2	30				
Dibenz(a,h)anthracene	96	86	22-133	11	30				
Diethylphthalate	106	103	70-136	4	30				
Dimethylphthalate	104	101	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	103	101	39-167	2	30				
Fluoranthene	112	119	26-166	6	30				
Fluorene	105	101	66-122	4	30				
Indeno(1,2,3-cd)pyrene	93	84	21-143	10	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1-Methylnaphthalene	101	94	72-123	7	30				
2-Methylnaphthalene	91	85	64-103	7	30				
Naphthalene	97	89	61-102	9	30				
N-Nitrosodimethylamine	102	96	48-113	6	30				
Di-n-octylphthalate	140	142	40-192	1	30				
Phenanthrene	103	104	12-165	0	30				
Pyrene	89	94	15-153	6	30				
Batch number: 11146SLE026	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054 UNSPK: 6296047								
N-Nitrosodimethylamine	24*	24*	70-130	1	30				
Batch number: 11151B34A	Sample number(s): 6296036 UNSPK: P302747								
9a TPH by EPA 8015B Gas C5-C12	61	62	39-118	5	30				
Batch number: 111510006A	Sample number(s): 6296035-6296038,6296042-6296043,6296045-6296049,6296051,6296054 UNSPK: 6296047								
4-Amino-2,6-Dinitrotoluene	113	110	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	112	110	80-137	2	50				
1,3-Dinitrobenzene	116	114	38-166	2	50				
2,4-Dinitrotoluene	108	107	80-131	1	50				
2,6-Dinitrotoluene	111	109	80-127	1	50				
HMX	100	96	63-128	4	50				
Nitrobenzene	112	113	80-125	1	50				
Nitroglycerin	101	99	80-120	2	50				
2-Nitrotoluene	106	105	80-122	1	50				
3-Nitrotoluene	114	112	72-119	1	50				
4-Nitrotoluene	105	104	80-125	1	50				
PETN	127*	122*	80-121	4	50				
RDX	93	91	75-129	2	50				
Tetryl	92	80	55-174	13	50				
1,3,5-Trinitrobenzene	108	105	82-126	3	50				
2,4,6-Trinitrotoluene	112	108	82-130	3	50				
Batch number: 111520004A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054 UNSPK: 6296047								
25a Formaldehyde 8315A	97	97	80-120	0	50				
Batch number: 111450020A	Sample number(s): 6296042-6296049,6296051-6296054,6296056 UNSPK: 6296047								
2,4-D	102	94	17-180	9	35				
Dalapon	58	46	10-125	24	50				
2,4-DB	62	68	10-201	9	50				
Dicamba	86	72	10-190	17	50				
Dinoseb	9*	7*	10-46	27	35				
2,4-DP (Dichlorprop)	100	87	33-178	15	50				
MCPA	89	74	10-213	18	50				
MCPP (Mecoprop)	70	78	10-184	11	50				
2,4,5-T	70	59	10-156	17	35				
2,4,5-TP	59	51	24-141	12	35				
Batch number: 111520014A	Sample number(s): 6296036,6296039-6296040,6296042,6296054 UNSPK: 6296036								
6a Perchlorate EPA 6850	103	107	80-120	3	20				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111460034A	Sample number(s): 6296035-6296040,6296042-6296049,6296051-6296054,6296056 UNSPK: 6296047								
PCB-1016	87	109	29-146	22	50				
PCB-1260	98	109	39-149	11	50				
Batch number: 111470004A	Sample number(s): 6296042-6296049,6296051-6296054,6296056 UNSPK: 6296047								
Aldrin	39	45	16-126	14	50				
Alpha BHC	58	61	10-129	5	50				
Beta BHC	47	53	14-147	13	50				
Gamma BHC - Lindane	64	64	10-140	0	50				
p,p-DDD	51	56	16-163	8	50				
p,p-DDE	62	49	18-161	22	50				
p,p-DDT	95	134	10-176	21	50				
Delta BHC	50	53	23-140	6	50				
Dieldrin	62	47	19-154	22	50				
Endosulfan I	36	42	16-137	15	50				
Endosulfan II	31	52	28-154	52*	50				
Endosulfan Sulfate	57	57	21-160	0	50				
Endrin	48	55	11-149	12	50				
Endrin Aldehyde	39	34	10-148	17	35				
Endrin Ketone	33	43	22-165	24	50				
Heptachlor	70	76	13-126	8	50				
Heptachlor Epoxide	42	53	13-157	19	50				
Methoxychlor	72	96	32-147	28	50				
Batch number: 111480002A	Sample number(s): 6296042-6296043,6296045-6296049,6296051,6296054 UNSPK: 6296047								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	40 (2)	118 (2)	49-123	15	20				
EFH (C21-C30)	-198 (2)	1919 (2)	49-123	63*	20				
EFH (C30 - C40)	-1805 (2)	3790 (2)	49-123	50*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111570011A	Sample number(s): 6296036 UNSPK: P301476								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	-196 (2)	-43 (2)	49-123	26*	20				
EFH (C21-C30)	-889 (2)	-1432 (2)	49-123	31*	20				
EFH (C30 - C40)	-226 (2)	-1853 (2)	49-123	25*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111450001A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054 UNSPK: 6296047								
Diethylene glycol	40*	39*	59-109	4	20				
Ethylene glycol	60*	60*	63-107	1	20				
Propylene glycol	68	68	63-107	0	20				
Batch number: 111450035A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054 UNSPK: 6296047								
Ethanol	66	64	48-130	2	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isopropanol	71	71	12-149	1	20				
Methanol	71	69	43-138	2	20				
Batch number: 111510027A	Sample number(s): 6296036,6296042-6296043,6296045-6296049,6296051,6296054 UNSPK: 6296047								
m-Terphenyl	82	80	75-125	2	20				
o-Terphenyl	98	95	75-125	4	20				
p-Terphenyl	94	93	75-125	1	20				
Batch number: 111515708001	Sample number(s): 6296035-6296040,6296042-6296054,6296056 UNSPK: 6296047 BKG: 6296047								
Aluminum	1488 (2)	2387 (2)	75-125	6	20	26,300	26,700	2	20
Boron	99	99	84-115	2	20	2.45 J	1.62 J	41* (1)	20
Calcium	-2319 (2)	-1985 (2)	75-125	15	20	16,100	7,380	74*	20
Iron	677 (2)	-340 (2)	75-125	4	20	27,900	27,800	0	20
Lithium	101	103	82-114	4	20	22.7	23.2	2	20
Magnesium	222 (2)	309 (2)	75-125	3	20	5,790	6,030	4	20
Manganese	138 (2)	29 (2)	75-125	12	20	393	379	4	20
Phosphorus	128*	89	75-125	8	20	311	300	4	20
Potassium	161*	154*	75-125	1	20	3,830	3,840	0	20
Sodium	98	98	75-125	1	20	124	122	2 (1)	20
Strontium	93	94	75-115	2	20	36.4	34.3	6	20
Tin	88	87	80-110	1	20	2.80 J	2.75 J	2 (1)	20
Titanium	215 (2)	285 (2)	75-125	4	20	1,450	1,410	3	20
Zirconium	94	94	75-125	2	20	6.08	5.92	3 (1)	20
Batch number: 111515711001	Sample number(s): 6296035-6296040,6296042-6296054,6296056 UNSPK: 6296047 BKG: 6296047								
Mercury	102	90	65-135	7	20	0.0403 J	0.0135 J	100* (1)	20
Batch number: 111541026001A	Sample number(s): 6296035-6296040,6296042-6296054,6296056 UNSPK: 6296047 BKG: 6296047								
Antimony	60*	74*	75-125	14	20	0.445	0.258	53* (1)	20
Arsenic	89	143*	75-125	11	20	7.11	5.29	29*	20
Beryllium	97	122	75-125	11	20	0.875	0.676	26*	20
Cadmium	103	135*	75-125	18	20	0.633	0.325	64* (1)	20
Chromium	100	85	75-125	4	20	26.2	24.7	6	20
Cobalt	91	90	75-125	0	20	11.3	8.28	31*	20
Copper	102	144*	75-125	13	20	19.8	14.9	28*	20
Lead	121 (2)	249 (2)	75-125	16	20	17.4	15.0	15	20
Nickel	158*	145*	75-125	3	20	25.1	17.9	34*	20
Silver	126*	145*	75-125	14	20	0.0620 J	0.118	63* (1)	20
Thallium	107	150*	75-125	18	20	0.428	0.293	37* (1)	20
Vanadium	118 (2)	230 (2)	75-125	11	20	79.6	58.7	30*	20
Zinc	325 (2)	140 (2)	75-125	11	20	141	133	6	20
Batch number: 111541026001B	Sample number(s): 6296035-6296040,6296042-6296054,6296056 UNSPK: 6296047 BKG: 6296047								
Selenium	109	122	75-125	10	20	0.202 J	0.121 J	50* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 111541026001C	Sample number(s): 6296035-6296040,6296042-6296054,6296056 UNSPK: 6296047 BKG: 6296047										
Molybdenum	122	141*	75-125	13	20	1.31		0.990		28*	20
Batch number: 111541026001D	Sample number(s): 6296035-6296040,6296042-6296054,6296056 UNSPK: 6296047 BKG: 6296047										
Barium	31 (2)	-349 (2)	75-125	24*	20	173		121		35*	20
Batch number: 11151102201A	Sample number(s): 6296036,6296042-6296043,6296045-6296048,6296050,6296054 UNSPK: 6296047 BKG: 6296047										
17a Cyanide by 9012B	106		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11151102201B	Sample number(s): 6296051 UNSPK: 6296051 BKG: 6296051										
17a Cyanide by 9012B	106		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11151621202A	Sample number(s): 6296035-6296040,6296042-6296045 UNSPK: 6296035 BKG: 6296035										
11a Anions by 300.0 - Fluoride	94		80-120			5.3		6.4		19	20
11a Anions by 300.0 - Nitrate	101		80-120			0.81	J	1.0	J	22* (1)	20
Batch number: 11151621202B	Sample number(s): 6296046-6296048,6296050-6296054,6296056 UNSPK: 6296047 BKG: 6296047										
11a Anions by 300.0 - Fluoride	55*		80-120			4.1		4.0		2 (1)	20
11a Anions by 300.0 - Nitrate	92		80-120			1.4	J	1.0	J	30* (1)	20
Batch number: 11152243201A	Sample number(s): 6296035-6296040,6296042-6296048,6296050-6296054,6296056 UNSPK: 6296047 BKG: 6296047										
3a Cr VI by EPA 7199	98		75-125			0.64	J	0.77	J	18 (1)	20
Batch number: 11153621201A	Sample number(s): 6296035-6296040,6296042-6296045 UNSPK: 6296035 BKG: 6296035										
7a Perchlorate EPA 314.0	116		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11153621201B	Sample number(s): 6296046-6296048,6296050-6296054,6296056 UNSPK: 6296047 BKG: 6296047										
7a Perchlorate EPA 314.0	118		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11145039403A	Sample number(s): 6296035-6296040,6296042-6296044 BKG: 6296035										
18a pH by 9045C						8.34		8.34		0	3
Batch number: 11145039403B	Sample number(s): 6296045-6296047,6296050-6296054,6296056 BKG: 6296047										
18a pH by 9045C						8.04		8.00		0	3
Batch number: 11153162401B	Sample number(s): 6296039-6296040,6296044,6296052-6296053,6296056 BKG: 6296040										
Moisture Content by 160.3						13.1		13.8		6	20
Batch number: 11160162402A	Sample number(s): 6296035-6296038,6296042-6296043,6296045-6296050 BKG: 6296047										
28a Moisture Content by 160.3						12.9		12.9		0	20
Moisture Content by 160.3						12.9		12.9		0	20
Moisture Content by 160.3						12.9		12.9		0	20
Batch number: 11160162402B	Sample number(s): 6296051,6296054 BKG: P301476										
Moisture Content by 160.3						9.5		9.8		2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6296035	100	97	99	95
6296036	103	106	98	97
6296037	103	106	98	97
6296039	102	102	99	95
Blank	101	102	100	96
LCS	102	102	102	101
LCSD	100	100	102	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111461AA

	Toluene-d8
6296041	106
Blank	106
LCS	106
LCSD	106
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111462AA

	Toluene-d8
6296035	97
6296036	97
6296037	97
6296039	97
Blank	98
LCS	98
LCSD	98
MS	93
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6296041	102	102	101	98
Blank	103	101	101	99
LCS	103	102	102	100
LCSD	102	102	103	101
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

Analysis Name: 15b NDMA by 1625C
Batch number: 11144WAA026

	N-Nitrosodimethylamine-d6
6296055	106
Blank	97
LCS	96
LCSD	109
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11144WAK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6296055	100	95	103
Blank	93	91	89
LCS	106	94	97
LCSD	108	101	103
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11145SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6296035	94	90	95	84	81	88
6296036	94	90	99	83	81	89
6296037	96	93	96	83	83	88
6296038	87	84	93	76	75	81
6296039	92	90	87	77	74	81
6296040	98	92	96	80	80	91
6296042	85	85	87	79	84	73
6296043	95	92	92	88	89	84
6296044	80	79	85	77	82	73
6296045	91	87	96	85	91	83
6296046	91	88	92	85	90	82
6296047	96	92	104	81	81	88
6296048	101	94	104	85	83	90
6296049	103	95	104	86	84	86
6296051	92	86	93	86	90	77
6296052	92	86	95	86	89	80
6296053	76	74	83	75	78	74
6296054	92	88	93	87	89	79
6296056	87	85	90	84	88	74
Blank	91	90	101	84	84	76
LCS	90	86	91	74	69	72
MS	101	94	104	85	83	90
MSD	103	95	104	86	84	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11145SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

6296035	90	88	102
6296036	95	91	107
6296037	94	89	102
6296038	93	90	105
6296039	96	90	104
6296040	84	90	101
6296042	93	94	96
6296043	91	91	94
6296044	96	93	93
6296045	97	96	96
6296046	104	100	101
6296047	103	100	105
6296048	115	103	100
6296049	109	99	98
6296051	102	99	103
6296052	100	97	101
6296053	97	95	96
6296054	89	86	90
6296056	81	76	84
Blank	103	103	108
LCS	109	100	103
MS	115	103	100
MSD	109	99	98
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLE026

	N-Nitrosodimethylamine-d6
6296036	67
6296042	94
6296043	129
6296045	90
6296046	91
6296047	152*
6296048	164*
6296049	143
6296051	160*
6296054	145
Blank	91
LCS	104
MS	164*
MSD	143
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11146WAD026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6296055	50	31	98	86	88	85
Blank	59	36	96	91	88	84
LCS	62	40	94	86	88	84
LCSD	60	39	92	86	87	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11151A20A

	Trifluorotoluene-F
6296041	70
Blank	70
LCS	112
LCSD	108

Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11151B34A

	Trifluorotoluene-F
6296036	71
Blank	76
LCS	79
LCSD	87
MS	74
MSD	74

Limits:	61-122

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111440027A

	Butyraldehyde
6296055	62
Blank	65
LCS	62
LCSD	64

Limits:	45-145

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111450014A

	2,4-Dichlorophenylacetic acid
6296055	90
Blank	92
LCS	109
LCSD	106

Limits:	35-144

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111450020A

	2,4-Dichlorophenylacetic acid
6296042	87
6296043	87

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

6296044	89
6296045	99
6296046	84
6296047	89
6296048	100
6296049	95
6296051	81
6296052	94
6296053	104
6296054	93
6296056	295*
Blank	79
LCS	83
MS	100
MSD	95
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111460034A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6296035	104	94
6296036	105	94
6296037	100	96
6296038	97	90
6296039	107	100
6296040	107	79
6296042	82	82
6296043	99	94
6296044	107	105
6296045	112	93
6296046	105	78
6296047	108	88
6296048	106	85
6296049	98	82
6296051	103	88
6296052	101	86
6296053	121	105
6296054	113	90
6296056	68	55
Blank	121	107
LCS	120	109
MS	106	85
MSD	98	82
Limits:	53-139	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 111460040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6296055	94	58
Blank	100	88
LCS	98	107
LCSD	102	99
Limits:	52-141	40-144

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111460041A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6296055	112	55
Blank	116	86
LCS	119	70
LCSD	116	97
Limits:	30-150	30-150

Analysis Name: 12a Pesticides by 8081A
Batch number: 111470004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6296042	97	79
6296043	79	119
6296044	79	178*
6296045	81	93
6296046	62	55
6296047	53	67
6296048	50	83
6296049	57	102
6296051	67	61
6296052	74	79
6296053	61	93
6296054	75	67
6296056	22*	119
Blank	34*	42
LCS	82	103
MS	50	44
MSD	57	56
Limits:	50-130	20-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111510006A

	2-Nitro-m-xylene
6296035	133
6296036	127
6296037	132
6296038	124
6296042	123
6296043	118
6296045	120
6296046	129
6296047	125
6296048	126
6296049	122
6296051	123
6296054	123
Blank	119
LCS	126
LCSD	123
MS	126

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

MSD	122
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111520004A

	Butyraldehyde
6296036	118
6296042	128*
6296043	130*
6296045	122
6296046	124
6296047	101
6296048	103
6296049	105
6296051	125
6296054	130*
Blank	83
LCS	100
MS	103
MSD	105
Limits:	64-126

Analysis Name: 16b Energetics by 8330A
Batch number: 111580002A

	2-Nitro-m-xylene
6296055	110
Blank	106
LCS	104
LCSD	107
Limits:	50-134

Analysis Name: 21a Glycols by 8015B
Batch number: 111450001A

	Tetramethylene glycol
6296036	84
6296042	90
6296043	93
6296045	89
6296046	87
6296047	86
6296048	86
6296049	85
6296051	83
6296054	81
Blank	90
LCS	98
MS	86
MSD	85
Limits:	29-137

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111450009A

	n-Triacontane-d62
6296055	27*
Blank	84
LCS	83
LCSD	80
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111450031A

	Chlorobenzene	Orthoterphenyl
6296055	74	86
Blank	101	95
LCS	92	100
LCSD	84	94
Limits:	28-152	52-131

Analysis Name: 19a Alcohols by 8015B
Batch number: 111450035A

	Acetone
6296036	73
6296042	70
6296043	72
6296045	69
6296046	70
6296047	70
6296048	74
6296049	76
6296051	68
6296054	68
Blank	87
LCS	86
MS	74
MSD	76
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111480002A

	Chlorobenzene	Orthoterphenyl
6296042	86	106
6296043	87	101
6296045	74	100
6296046	56	81
6296047	85	98
6296048	81	93
6296049	97	107
6296051	55	89
6296054	70	114
Blank	83	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248215
Reported: 06/20/11 at 09:34 AM

Surrogate Quality Control

LCS	86	97
MS	81	93
MSD	97	107
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111510027A

	n-Triacontane-d62
6296036	92
6296042	110
6296043	159*
6296045	97
6296046	94
6296047	117
6296048	151*
6296049	130
6296051	77
6296054	108
Blank	92
LCS	94
MS	151*
MSD	130
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111570011A

	Chlorobenzene	Orthoterphenyl
6296036	72	89
Blank	77	93
LCS	89	95
MS	91	113
MSD	86	103
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1248215 6296035-56

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: * Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**ANDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-084-SA5DN-SB-4.5	5/23/11	0925	SOIL	NONE	4-Encores										X	X											
SL-084-SA5DN-SB-4.0-5.0	5/23/11	0930	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-089-SA5DN-SB-4.5	5/23/11	1020	SOIL	NONE	5-Encores										X	X	X										
SL-089-SA5DN-SB-4.0-5.0	5/23/11	1025	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-081-SA5DN-SB-4.5	5/23/11	1300	SOIL	NONE	5-Encores										X	X											
SL-081-SA5DN-SB-4.0-5.0	5/23/11	1310	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-081-SA5DN-SB-9.0-10.0	5/23/11	1315	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-075-SA5DN-SB-4.5	5/23/11	1535	SOIL	NONE	4-Encores										X	X											
SL-075-SA5DN-SB-4.0-5.0	5/23/11	1540	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-075-SA5DN-SB-9.0-10.0	5/23/11	1545	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
TB-052311	5/23/11	0600	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 05/23/2011 / 1700		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 5/24/11 1010		Airbill No.(s) 8695 1441 7961, 7994, 8008,7972, 7983																								

13013 1248215 6296035-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: T Pham

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Chlorin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tephenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA5DN-SS-0.0-0.5	5/23/11	1210	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-015-SA5DN-SS-0.0-0.5	5/23/11	1210	SOIL	NONE	1-SS sleeve			X	X																	
SL-016-SA5DN-SS-0.0-0.5	5/23/11	1140	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-016-SA5DN-SS-0.0-0.5	5/23/11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-017-SA5DN-SS-0.0-0.5	5/23/11	1235	SOIL	NONE	1-16 oz jars	X	X	X	X	X	X	X	X		X	X										
SL-017-SA5DN-SS-0.0-0.5	5/23/11	1235	SOIL	NONE	1-SS sleeve			X	X																	
SL-019-SA5DN-SS-0.0-0.5	5/23/11	1030	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-019-SA5DN-SS-0.0-0.5	5/23/11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-021-SA5DN-SS-0.0-0.5	5/23/11	1100	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-021-SA5DN-SS-0.0-0.5	5/23/11	1100	SOIL	NONE	1-SS sleeve			X	X																	
SL-022-SA5DN-SS-0.0-0.5MS	5/23/11	0925	SOIL	NONE	4-16 oz jar	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-022-SA5DN-SS-0.0-0.5MS	5/23/11	0925	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD
SL-023-SA5DN-SS-0.0-0.5	5/23/11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-023-SA5DN-SS-0.0-0.5	5/23/11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-052-SA5DN-SS-0.0-0.5	5/23/11	0900	SOIL	NONE	1-16 oz jars	X	X	X	X	X	X	X	X		X	X										
SL-052-SA5DN-SS-0.0-0.5	5/23/11	0900	SOIL	NONE	1-SS sleeve			X	X																	
SL-053-SA5DN-SS-0.0-0.5	5/23/11	0840	SOIL	NONE	1-16 oz jars	X	X	X	X	X	X	X	X		X	X										
SL-053-SA5DN-SS-0.0-0.5	5/23/11	0840	SOIL	NONE	1-SS sleeve			X	X																	
DUP05-SA5DN-QC-052311	5/23/11	0935	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DUP05-SA5DN-QC-052311	5/23/11	0935	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/23/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/24/11 0900	8695 1441 7961, 7994, 8008,7972, 7983	

13013 1248215 6296035-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
§ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected

Samplers Signatures: TPM

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCDs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*1M EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	12-1 liter ambers			X	X	X				X	X	X			X	X		X			
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NaOH	1-500 mL glass																X				
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	1-250 mL glass													X							
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	1-500 mL poly		X				X	X	X												
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	HNO3	1-500 mL poly	X																			
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	HCl	2-40 mL vial																			X	
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	4-40 mL vial												X					X			

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Other Instructions and Notes
	05/23/2011 / 1700		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	Sheila Lopez	8695 1441 7961, 7994, 8008, 7972, 7983	

13013 1248215 6296035-56

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Chromium EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Methyl Mercury EPA Method 1630	**Organotin NOAA Status&Trends	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetraphyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SED-035-SIV-SD	5.23.11	1500	WET SOIL	NONE	4-8 oz. Poly											X									
SED-035-SIV-SD	5.23.11	1500	WET SOIL	NONE	4-8 oz. Jars												X								
SED-035-SIV-SD	5.23.11	1500	WET SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X	X										
DUP01-SIV-SD	5.23.11	1510	WET SOIL	NONE	1-8 oz. Poly											X									
DUP01-SIV-SD	5.23.11	1510	WET SOIL	NONE	1-8 oz. Jars												X								
FB07-SIV-SS-052311	5.23.11	1600	WATER	NONE	1-L Amber											X									
FB07-SIV-SS-052311	5.23.11	1600	WATER	NONE	1-L Amber												X								

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/23/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/24/2011	8695 1441 7961, 7994, 8008,7972, 7983	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, May 24, 2011 2:44 PM
To: Nicole Maljovec
Cc: Bloisa, Peggy
Subject: Corrections for SSFL COC 5.23.11

Attachments: COC_05_23_11_sediment(1).xlsx

COC_05_23_11_sediment(1).xlsx ...

Hi Nicole

Now that the dust has settled, Peggy and I have found my mistakes from yesterday. I have attached new updated COCs. I have highlighted the changes in red or yellow. These include:

1) SED-035-SIV-SD on the first two lines of the "Sediment Hole" COC should be SED-035-SIV-SDMS. The are the MS/MSD sample.

2) DUP01-SIV-SD should be DUP03-SIV-QC-052311

3) FB07-SIV-SS-052311 should be FB08-SIV-052311

4) For the COC starting with the sample name SL-015-SA5DN-SS-0.0-0.5, SVOCs and PCBs should only be analyzed from the sleeves and not from the jars.

5) The 6-40mL vials for the equipment blank will ship today.

Thank you !!

13013 1248215 G296035-5C

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8016B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										Amended COC
SL-015-SA5DN-SS-0.0-0.5	5/23/11	1210	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-015-SA5DN-SS-0.0-0.5	5/23/11	1210	SOIL	NONE	1-SS sleeve			X	X																	
SL-016-SA5DN-SS-0.0-0.5	5/23/11	1140	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-016-SA5DN-SS-0.0-0.5	5/23/11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-017-SA5DN-SS-0.0-0.5	5/23/11	1235	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X		X	X										
SL-017-SA5DN-SS-0.0-0.5	5/23/11	1235	SOIL	NONE	1-SS sleeve			X	X																	
SL-019-SA5DN-SS-0.0-0.5	5/23/11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-019-SA5DN-SS-0.0-0.5	5/23/11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-021-SA5DN-SS-0.0-0.5	5/23/11	1100	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-021-SA5DN-SS-0.0-0.5	5/23/11	1100	SOIL	NONE	1-SS sleeve			X	X																	
SL-022-SA5DN-SS-0.0-0.5MS	5/23/11	0925	SOIL	NONE	4-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-022-SA5DN-SS-0.0-0.5MS	5/23/11	0925	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD
SL-023-SA5DN-SS-0.0-0.5	5/23/11	1000	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-023-SA5DN-SS-0.0-0.5	5/23/11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-052-SA5DN-SS-0.0-0.5	5/23/11	0900	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X		X	X										
SL-052-SA5DN-SS-0.0-0.5	5/23/11	0900	SOIL	NONE	1-SS sleeve			X	X																	
SL-053-SA5DN-SS-0.0-0.5	5/23/11	0840	SOIL	NONE	1-16 oz jars	X	X			X	X	X	X		X	X										
SL-053-SA5DN-SS-0.0-0.5	5/23/11	0840	SOIL	NONE	1-SS sleeve			X	X																	
DUP05-SA5DN-QC-052311	5/23/11	0935	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DUP05-SA5DN-QC-052311	5/23/11	0935	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/23/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1441 7961, 7994, 8008,7972, 7983	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/24/2011
Group Number: 1248219
SDG: DX087
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-084-SA5DN-SB-4.0-5.0 Soil	6296078
SL-089-SA5DN-SB-4.0-5.0 Soil	6296079
SL-081-SA5DN-SB-4.0-5.0 Soil	6296080
SL-081-SA5DN-SB-9.0-10.0 Soil	6296081
SL-075-SA5DN-SB-4.0-5.0 Soil	6296082
SL-075-SA5DN-SB-9.0-10.0 Soil	6296083
SL-015-SA5DN-SS-0.0-0.5 Soil	6296084
SL-016-SA5DN-SS-0.0-0.5 Soil	6296085
SL-017-SA5DN-SS-0.0-0.5 Soil	6296086
SL-019-SA5DN-SS-0.0-0.5 Soil	6296087
SL-021-SA5DN-SS-0.0-0.5 Soil	6296088
SL-022-SA5DN-SS-0.0-0.5 Soil	6296089
SL-022-SA5DN-SS-0.0-0.5MS Soil	6296090
SL-022-SA5DN-SS-0.0-0.5MSD Soil	6296091
SL-023-SA5DN-SS-0.0-0.5 Soil	6296092
SL-052-SA5DN-SS-0.0-0.5 Soil	6296093
SL-053-SA5DN-SS-0.0-0.5 Soil	6296094
DUP05-SA5DN-QC-052311 Soil	6296095
EB05-SA5DN-SS-052311 Water	6296096
SED-035-SIV-SD Sediment	6296097

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296078
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0844 SDG#: DX087-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296078
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0844 SDG#: DX087-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0287 JQ	0.0197	1.10	1
11031	12378-PeCDD	40321-76-4	0.0421 JBQ	0.0200	5.48	1
11031	123478-HxCDD	39227-28-6	0.0588 JB	0.0196	5.48	1
11031	123678-HxCDD	57653-85-7	0.102 JB	0.0198	5.48	1
11031	123789-HxCDD	19408-74-3	0.0783 JBQ	0.0191	5.48	1
11031	1234678-HpCDD	35822-46-9	1.10 JB	0.0381	5.48	1
11031	OCDD	3268-87-9	15.6 B	0.0404	11.0	1
11031	2378-TCDF	51207-31-9	0.0187 U	0.0187	1.10	1
11031	12378-PeCDF	57117-41-6	0.0433 JBQ	0.0101	5.48	1
11031	23478-PeCDF	57117-31-4	0.0847 JBQ	0.00940	5.48	1
11031	123478-HxCDF	70648-26-9	0.0686 JBQ	0.0175	5.48	1
11031	123678-HxCDF	57117-44-9	0.0586 JBQ	0.0163	5.48	1
11031	123789-HxCDF	72918-21-9	0.0885 JBQ	0.0152	5.48	1
11031	234678-HxCDF	60851-34-5	0.0973 JB	0.0131	5.48	1
11031	1234678-HpCDF	67562-39-4	0.293 JBQ	0.0178	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0709 JBQ	0.0235	5.48	1
11031	OCDF	39001-02-0	0.451 JB	0.0403	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296078
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0844 SDG#: DX087-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-084-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296078
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0844 SDG#: DX087-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 14:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296079
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0894 SDG#: DX087-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296079
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

D0894 SDG#: DX087-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0257 U	0.0257	1.10	1
11031	12378-PeCDD	40321-76-4	0.0221 JBQ	0.0207	5.48	1
11031	123478-HxCDD	39227-28-6	0.0244 JBQ	0.0187	5.48	1
11031	123678-HxCDD	57653-85-7	0.0757 JBQ	0.0197	5.48	1
11031	123789-HxCDD	19408-74-3	0.0955 JBQ	0.0178	5.48	1
11031	1234678-HpCDD	35822-46-9	0.786 JB	0.0366	5.48	1
11031	OCDD	3268-87-9	13.5 B	0.0348	11.0	1
11031	2378-TCDF	51207-31-9	0.0211 U	0.0211	1.10	1
11031	12378-PeCDF	57117-41-6	0.0481 JBQ	0.0121	5.48	1
11031	23478-PeCDF	57117-31-4	0.0880 JB	0.0111	5.48	1
11031	123478-HxCDF	70648-26-9	0.0739 JBQ	0.0154	5.48	1
11031	123678-HxCDF	57117-44-9	0.0602 JBQ	0.0144	5.48	1
11031	123789-HxCDF	72918-21-9	0.0669 JB	0.0168	5.48	1
11031	234678-HxCDF	60851-34-5	0.0685 JBQ	0.0131	5.48	1
11031	1234678-HpCDF	67562-39-4	0.221 JBQ	0.0132	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0785 JB	0.0171	5.48	1
11031	OCDF	39001-02-0	0.330 JBQ	0.0343	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296079
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0894 SDG#: DX087-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296079
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0894 SDG#: DX087-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 15:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296080
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0814 SDG#: DX087-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296080
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0814 SDG#: DX087-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0264 U	0.0264	1.10	1
11031	12378-PeCDD	40321-76-4	0.0630 JBQ	0.0209	5.51	1
11031	123478-HxCDD	39227-28-6	0.0225 JBQ	0.0209	5.51	1
11031	123678-HxCDD	57653-85-7	0.0756 JBQ	0.0219	5.51	1
11031	123789-HxCDD	19408-74-3	0.134 JBQ	0.0206	5.51	1
11031	1234678-HpCDD	35822-46-9	0.678 JB	0.0383	5.51	1
11031	OCDD	3268-87-9	5.37 JB	0.0434	11.0	1
11031	2378-TCDF	51207-31-9	0.0222 U	0.0222	1.10	1
11031	12378-PeCDF	57117-41-6	0.0541 JBQ	0.0122	5.51	1
11031	23478-PeCDF	57117-31-4	0.0941 JB	0.0114	5.51	1
11031	123478-HxCDF	70648-26-9	0.0476 JBQ	0.0161	5.51	1
11031	123678-HxCDF	57117-44-9	0.0376 JB	0.0154	5.51	1
11031	123789-HxCDF	72918-21-9	0.121 JB	0.0166	5.51	1
11031	234678-HxCDF	60851-34-5	0.0856 JB	0.0141	5.51	1
11031	1234678-HpCDF	67562-39-4	0.211 JB	0.0143	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0778 JB	0.0180	5.51	1
11031	OCDF	39001-02-0	0.341 JBQ	0.0373	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296080
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0814 SDG#: DX087-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296080
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0814 SDG#: DX087-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 16:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296081
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0819 SDG#: DX087-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296081
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0819 SDG#: DX087-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0346 JQ	0.0205	1.09	1
11031	12378-PeCDD	40321-76-4	0.0393 JBQ	0.0226	5.44	1
11031	123478-HxCDD	39227-28-6	0.0584 JBQ	0.0176	5.44	1
11031	123678-HxCDD	57653-85-7	0.0621 JBQ	0.0183	5.44	1
11031	123789-HxCDD	19408-74-3	0.0992 JB	0.0178	5.44	1
11031	1234678-HpCDD	35822-46-9	0.860 JB	0.0380	5.44	1
11031	OCDD	3268-87-9	8.17 JB	0.0400	10.9	1
11031	2378-TCDF	51207-31-9	0.0196 U	0.0196	1.09	1
11031	12378-PeCDF	57117-41-6	0.0391 JBQ	0.0103	5.44	1
11031	23478-PeCDF	57117-31-4	0.0836 JBQ	0.00973	5.44	1
11031	123478-HxCDF	70648-26-9	0.0690 JB	0.0143	5.44	1
11031	123678-HxCDF	57117-44-9	0.0474 JBQ	0.0139	5.44	1
11031	123789-HxCDF	72918-21-9	0.0578 JBQ	0.0156	5.44	1
11031	234678-HxCDF	60851-34-5	0.0702 JB	0.0137	5.44	1
11031	1234678-HpCDF	67562-39-4	0.253 JB	0.0133	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0811 JBQ	0.0175	5.44	1
11031	OCDF	39001-02-0	0.330 JB	0.0341	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-081-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296081
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0819 SDG#: DX087-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296081
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 13:15

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0819 SDG#: DX087-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 17:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296082
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0754 SDG#: DX087-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296082
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0754 SDG#: DX087-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0208	U	0.0208	1.11	1
11031	12378-PeCDD	40321-76-4	0.0231	U	0.0231	5.53	1
11031	123478-HxCDD	39227-28-6	0.0180	U	0.0180	5.53	1
11031	123678-HxCDD	57653-85-7	0.0634	JBQ	0.0187	5.53	1
11031	123789-HxCDD	19408-74-3	0.0804	JBQ	0.0162	5.53	1
11031	1234678-HpCDD	35822-46-9	0.425	JBQ	0.0299	5.53	1
11031	OCDD	3268-87-9	3.62	JB	0.0385	11.1	1
11031	2378-TCDF	51207-31-9	0.0188	U	0.0188	1.11	1
11031	12378-PeCDF	57117-41-6	0.0336	JBQ	0.0105	5.53	1
11031	23478-PeCDF	57117-31-4	0.0655	JBQ	0.00993	5.53	1
11031	123478-HxCDF	70648-26-9	0.0789	JB	0.0232	5.53	1
11031	123678-HxCDF	57117-44-9	0.0612	JB	0.0197	5.53	1
11031	123789-HxCDF	72918-21-9	0.0488	JB	0.0144	5.53	1
11031	234678-HxCDF	60851-34-5	0.0790	JB	0.0119	5.53	1
11031	1234678-HpCDF	67562-39-4	0.246	JBQ	0.0188	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0287	JB	0.0195	5.53	1
11031	OCDF	39001-02-0	0.184	JB	0.0335	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	50	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296082
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0754 SDG#: DX087-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-4.0-5.0

LLI Sample # SW 6296082
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0754 SDG#: DX087-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 18:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296083
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0759 SDG#: DX087-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296083
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0759 SDG#: DX087-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0743	JQ	0.0207	1.14	1
11031	12378-PeCDD	40321-76-4	0.200	JB	0.0241	5.68	1
11031	123478-HxCDD	39227-28-6	0.160	JB	0.0242	5.68	1
11031	123678-HxCDD	57653-85-7	0.186	JBQ	0.0255	5.68	1
11031	123789-HxCDD	19408-74-3	0.173	JBQ	0.0227	5.68	1
11031	1234678-HpCDD	35822-46-9	1.22	JBQ	0.0413	5.68	1
11031	OCDD	3268-87-9	13.4	B	0.0406	11.4	1
11031	2378-TCDF	51207-31-9	0.0745	JBQ	0.0183	1.14	1
11031	12378-PeCDF	57117-41-6	0.255	JBQ	0.0128	5.68	1
11031	23478-PeCDF	57117-31-4	0.247	JBQ	0.0115	5.68	1
11031	123478-HxCDF	70648-26-9	0.219	JB	0.0252	5.68	1
11031	123678-HxCDF	57117-44-9	0.219	JB	0.0226	5.68	1
11031	123789-HxCDF	72918-21-9	0.174	JBQ	0.0219	5.68	1
11031	234678-HxCDF	60851-34-5	0.185	JBQ	0.0188	5.68	1
11031	1234678-HpCDF	67562-39-4	0.399	JB	0.0235	5.68	1
11031	1234789-HpCDF	55673-89-7	0.0908	JBQ	0.0274	5.68	1
11031	OCDF	39001-02-0	0.545	JBQ	0.0399	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	56	25 - 181
13C12-123478-HxCDD	54	32 - 141
13C12-123678-HxCDD	53	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	55	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	60	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296083
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0759 SDG#: DX087-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5DN-SB-9.0-10.0

LLI Sample # SW 6296083
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D0759 SDG#: DX087-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 19:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296084
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX087-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296084
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX087-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.109 J	0.0215	1.11	1
11031	12378-PeCDD	40321-76-4	0.760 JBQ	0.0496	5.54	1
11031	123478-HxCDD	39227-28-6	2.39 JB	0.104	5.54	1
11031	123678-HxCDD	57653-85-7	14.6 B	0.110	5.54	1
11031	123789-HxCDD	19408-74-3	5.38 JB	0.102	5.54	1
11031	1234678-HpCDD	35822-46-9	709 B	0.414	5.54	1
11031	OCDD	3268-87-9	13,100 EB	0.317	11.1	1
11031	2378-TCDF	51207-31-9	0.340 JB	0.0843	1.11	1
11031	12378-PeCDF	57117-41-6	0.823 JBQ	0.0435	5.54	1
11031	23478-PeCDF	57117-31-4	0.717 JB	0.0422	5.54	1
11031	123478-HxCDF	70648-26-9	2.12 JB	0.101	5.54	1
11031	123678-HxCDF	57117-44-9	0.723 JB	0.0904	5.54	1
11031	123789-HxCDF	72918-21-9	0.659 JB	0.0804	5.54	1
11031	234678-HxCDF	60851-34-5	0.799 JB	0.0713	5.54	1
11031	1234678-HpCDF	67562-39-4	26.0 B	0.0823	5.54	1
11031	1234789-HpCDF	55673-89-7	2.06 JB	0.0973	5.54	1
11031	OCDF	39001-02-0	71.5 B	0.0670	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	71	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296084
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX087-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296084
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:10

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX087-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 20:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296085
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX087-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296085
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX087-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0564	JQ	0.0183	1.08	1
11031	12378-PeCDD	40321-76-4	0.249	JB	0.0519	5.38	1
11031	123478-HxCDD	39227-28-6	0.518	JB	0.0675	5.38	1
11031	123678-HxCDD	57653-85-7	2.51	JB	0.0728	5.38	1
11031	123789-HxCDD	19408-74-3	1.28	JB	0.0685	5.38	1
11031	1234678-HpCDD	35822-46-9	110	B	0.143	5.38	1
11031	OCDD	3268-87-9	1,930	B	0.129	10.8	1
11031	2378-TCDF	51207-31-9	1.09	B	0.151	1.08	1
11031	12378-PeCDF	57117-41-6	4.39	JB	0.0886	5.38	1
11031	23478-PeCDF	57117-31-4	1.18	JB	0.0823	5.38	1
11031	123478-HxCDF	70648-26-9	7.94	B	0.0771	5.38	1
11031	123678-HxCDF	57117-44-9	0.791	JB	0.0746	5.38	1
11031	123789-HxCDF	72918-21-9	0.442	JB	0.0784	5.38	1
11031	234678-HxCDF	60851-34-5	0.465	JBQ	0.0713	5.38	1
11031	1234678-HpCDF	67562-39-4	4.92	JB	0.0432	5.38	1
11031	1234789-HpCDF	55673-89-7	0.508	JB	0.0552	5.38	1
11031	OCDF	39001-02-0	12.7	B	0.0458	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296085
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX087-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296085
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX087-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/07/2011 21:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296086
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX087-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296086
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX087-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0612	JQ	0.0199	1.10	1
11031	12378-PeCDD	40321-76-4	0.438	JBQ	0.0700	5.49	1
11031	123478-HxCDD	39227-28-6	0.175	JB	0.0546	5.49	1
11031	123678-HxCDD	57653-85-7	0.543	JB	0.0571	5.49	1
11031	123789-HxCDD	19408-74-3	0.639	JB	0.0557	5.49	1
11031	1234678-HpCDD	35822-46-9	10.3	B	0.0473	5.49	1
11031	OCDD	3268-87-9	126	B	0.0498	11.0	1
11031	2378-TCDF	51207-31-9	2.09	B	0.189	1.10	1
11650	2378-TCDF-Conf	51207-31-9	0.964	JB	0.0562	1.10	1
11031	12378-PeCDF	57117-41-6	5.65	B	0.107	5.49	1
11031	23478-PeCDF	57117-31-4	2.28	JB	0.0990	5.49	1
11031	123478-HxCDF	70648-26-9	18.5	B	0.0888	5.49	1
11031	123678-HxCDF	57117-44-9	0.948	JB	0.0862	5.49	1
11031	123789-HxCDF	72918-21-9	0.582	JB	0.0969	5.49	1
11031	234678-HxCDF	60851-34-5	0.693	JB	0.0842	5.49	1
11031	1234678-HpCDF	67562-39-4	2.11	JB	0.0277	5.49	1
11031	1234789-HpCDF	55673-89-7	0.342	JB	0.0361	5.49	1
11031	OCDF	39001-02-0	4.42	JB	0.0381	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-2378-TCDF-Conf	77	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296086
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX087-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296086
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 12:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD017 SDG#: DX087-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 01:20	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11155001	06/09/2011 17:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296087
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DX087-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296087
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DX087-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0320	JQ	0.0173	1.14	1
11031	12378-PeCDD	40321-76-4	0.118	JBQ	0.0278	5.70	1
11031	123478-HxCDD	39227-28-6	0.182	JBQ	0.0543	5.70	1
11031	123678-HxCDD	57653-85-7	0.896	JB	0.0565	5.70	1
11031	123789-HxCDD	19408-74-3	0.693	JB	0.0555	5.70	1
11031	1234678-HpCDD	35822-46-9	27.7	B	0.0813	5.70	1
11031	OCDD	3268-87-9	426	B	0.0829	11.4	1
11031	2378-TCDF	51207-31-9	0.141	JB	0.0524	1.14	1
11031	12378-PeCDF	57117-41-6	0.342	JB	0.0280	5.70	1
11031	23478-PeCDF	57117-31-4	0.224	JB	0.0280	5.70	1
11031	123478-HxCDF	70648-26-9	0.779	JB	0.0443	5.70	1
11031	123678-HxCDF	57117-44-9	0.134	JB	0.0412	5.70	1
11031	123789-HxCDF	72918-21-9	0.474	JB	0.0473	5.70	1
11031	234678-HxCDF	60851-34-5	0.169	JBQ	0.0399	5.70	1
11031	1234678-HpCDF	67562-39-4	1.60	JB	0.0290	5.70	1
11031	1234789-HpCDF	55673-89-7	0.180	JBQ	0.0370	5.70	1
11031	OCDF	39001-02-0	4.52	JB	0.0404	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296087
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DX087-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296087
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:30

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD019 SDG#: DX087-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 02:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296088
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DX087-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296088
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DX087-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	JQ	0.0182	1.13	1
11031	12378-PeCDD	40321-76-4	0.266	JBQ	0.0348	5.67	1
11031	123478-HxCDD	39227-28-6	1.45	JB	0.0837	5.67	1
11031	123678-HxCDD	57653-85-7	10.3	B	0.0895	5.67	1
11031	123789-HxCDD	19408-74-3	3.84	JB	0.0866	5.67	1
11031	1234678-HpCDD	35822-46-9	535	B	0.278	5.67	1
11031	OCDD	3268-87-9	9,760	EB	0.177	11.3	1
11031	2378-TCDF	51207-31-9	0.320	JB	0.108	1.13	1
11031	12378-PeCDF	57117-41-6	0.660	JB	0.0329	5.67	1
11031	23478-PeCDF	57117-31-4	0.241	JBQ	0.0311	5.67	1
11031	123478-HxCDF	70648-26-9	0.612	JB	0.0487	5.67	1
11031	123678-HxCDF	57117-44-9	0.297	JB	0.0477	5.67	1
11031	123789-HxCDF	72918-21-9	0.348	JB	0.0581	5.67	1
11031	234678-HxCDF	60851-34-5	0.449	JB	0.0497	5.67	1
11031	1234678-HpCDF	67562-39-4	19.1	B	0.0605	5.67	1
11031	1234789-HpCDF	55673-89-7	1.56	JB	0.0871	5.67	1
11031	OCDF	39001-02-0	53.2	B	0.0546	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296088
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DX087-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296088
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 11:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD021 SDG#: DX087-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 03:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296089
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296089
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0446	JQ	0.0180	1.13	1
11031	12378-PeCDD	40321-76-4	0.285	JBQ	0.0365	5.65	1
11031	123478-HxCDD	39227-28-6	0.625	JB	0.0703	5.65	1
11031	123678-HxCDD	57653-85-7	1.99	JB	0.0739	5.65	1
11031	123789-HxCDD	19408-74-3	1.42	JB	0.0695	5.65	1
11031	1234678-HpCDD	35822-46-9	81.1	B	0.0907	5.65	1
11031	OCDD	3268-87-9	786	B	0.103	11.3	1
11031	2378-TCDF	51207-31-9	0.246	JB	0.0758	1.13	1
11031	12378-PeCDF	57117-41-6	0.673	JB	0.0349	5.65	1
11031	23478-PeCDF	57117-31-4	0.641	JB	0.0343	5.65	1
11031	123478-HxCDF	70648-26-9	0.673	JB	0.0416	5.65	1
11031	123678-HxCDF	57117-44-9	0.398	JB	0.0403	5.65	1
11031	123789-HxCDF	72918-21-9	0.598	JB	0.0454	5.65	1
11031	234678-HxCDF	60851-34-5	0.420	JB	0.0398	5.65	1
11031	1234678-HpCDF	67562-39-4	5.13	JB	0.0284	5.65	1
11031	1234789-HpCDF	55673-89-7	0.419	JB	0.0358	5.65	1
11031	OCDF	39001-02-0	15.0	B	0.0363	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296089
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296089
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 04:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296090
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296090
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.7		0.0294	1.15	1
11031	12378-PeCDD	40321-76-4	122	B	0.0467	5.74	1
11031	123478-HxCDD	39227-28-6	123	B	0.0767	5.74	1
11031	123678-HxCDD	57653-85-7	124	B	0.0803	5.74	1
11031	123789-HxCDD	19408-74-3	122	B	0.0780	5.74	1
11031	1234678-HpCDD	35822-46-9	175	B	0.130	5.74	1
11031	OCDD	3268-87-9	787	B	0.103	11.5	1
11031	2378-TCDF	51207-31-9	25.3	B	0.0819	1.15	1
11031	12378-PeCDF	57117-41-6	121	B	0.0466	5.74	1
11031	23478-PeCDF	57117-31-4	121	B	0.0442	5.74	1
11031	123478-HxCDF	70648-26-9	123	B	0.0971	5.74	1
11031	123678-HxCDF	57117-44-9	121	B	0.0917	5.74	1
11031	123789-HxCDF	72918-21-9	122	B	0.110	5.74	1
11031	234678-HxCDF	60851-34-5	122	B	0.0923	5.74	1
11031	1234678-HpCDF	67562-39-4	124	B	0.0610	5.74	1
11031	1234789-HpCDF	55673-89-7	119	B	0.0827	5.74	1
11031	OCDF	39001-02-0	250	B	0.0644	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296090
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296090
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 14:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296091
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296091
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.0		0.0279	1.13	1
11031	12378-PeCDD	40321-76-4	121	B	0.0567	5.65	1
11031	123478-HxCDD	39227-28-6	120	B	0.0775	5.65	1
11031	123678-HxCDD	57653-85-7	121	B	0.0820	5.65	1
11031	123789-HxCDD	19408-74-3	120	B	0.0769	5.65	1
11031	1234678-HpCDD	35822-46-9	198	B	0.103	5.65	1
11031	OCDD	3268-87-9	1,150	B	0.122	11.3	1
11031	2378-TCDF	51207-31-9	24.8	B	0.0758	1.13	1
11031	12378-PeCDF	57117-41-6	120	B	0.0419	5.65	1
11031	23478-PeCDF	57117-31-4	118	B	0.0370	5.65	1
11031	123478-HxCDF	70648-26-9	122	B	0.0621	5.65	1
11031	123678-HxCDF	57117-44-9	120	B	0.0595	5.65	1
11031	123789-HxCDF	72918-21-9	119	B	0.0618	5.65	1
11031	234678-HxCDF	60851-34-5	121	B	0.0544	5.65	1
11031	1234678-HpCDF	67562-39-4	123	B	0.0536	5.65	1
11031	1234789-HpCDF	55673-89-7	118	B	0.0630	5.65	1
11031	OCDF	39001-02-0	251	B	0.0486	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-022-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296091
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-022-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296091
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:25

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD022 SDG#: DX087-12MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 06:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402A	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296092
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX087-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296092
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX087-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243	JQ	0.0169	1.11	1
11031	12378-PeCDD	40321-76-4	0.234	JBQ	0.0260	5.57	1
11031	123478-HxCDD	39227-28-6	0.329	JB	0.0599	5.57	1
11031	123678-HxCDD	57653-85-7	1.40	JB	0.0628	5.57	1
11031	123789-HxCDD	19408-74-3	0.891	JB	0.0592	5.57	1
11031	1234678-HpCDD	35822-46-9	73.4	B	0.103	5.57	1
11031	OCDD	3268-87-9	911	B	0.102	11.1	1
11031	2378-TCDF	51207-31-9	0.0866	U	0.0866	1.11	1
11031	12378-PeCDF	57117-41-6	0.498	JB	0.0304	5.57	1
11031	23478-PeCDF	57117-31-4	0.251	JB	0.0288	5.57	1
11031	123478-HxCDF	70648-26-9	0.421	JB	0.0366	5.57	1
11031	123678-HxCDF	57117-44-9	0.218	JB	0.0342	5.57	1
11031	123789-HxCDF	72918-21-9	0.456	JB	0.0444	5.57	1
11031	234678-HxCDF	60851-34-5	0.239	JB	0.0356	5.57	1
11031	1234678-HpCDF	67562-39-4	3.03	JB	0.0304	5.57	1
11031	1234789-HpCDF	55673-89-7	0.391	JB	0.0449	5.57	1
11031	OCDF	39001-02-0	8.57	JB	0.0439	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296092
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX087-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296092
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 10:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX087-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 06:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296093
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD052 SDG#: DX087-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296093
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD052 SDG#: DX087-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.15	1
11031	12378-PeCDD	40321-76-4	0.205	JBQ	0.0260	5.76	1
11031	123478-HxCDD	39227-28-6	0.153	JBQ	0.0449	5.76	1
11031	123678-HxCDD	57653-85-7	0.481	JB	0.0474	5.76	1
11031	123789-HxCDD	19408-74-3	0.555	JB	0.0445	5.76	1
11031	1234678-HpCDD	35822-46-9	9.90	B	0.0525	5.76	1
11031	OCDD	3268-87-9	115	B	0.0571	11.5	1
11031	2378-TCDF	51207-31-9	0.122	JB	0.0261	1.15	1
11031	12378-PeCDF	57117-41-6	0.215	JB	0.0158	5.76	1
11031	23478-PeCDF	57117-31-4	0.185	JBQ	0.0153	5.76	1
11031	123478-HxCDF	70648-26-9	0.366	JB	0.0297	5.76	1
11031	123678-HxCDF	57117-44-9	0.146	JBQ	0.0277	5.76	1
11031	123789-HxCDF	72918-21-9	0.552	JB	0.0290	5.76	1
11031	234678-HxCDF	60851-34-5	0.161	JB	0.0243	5.76	1
11031	1234678-HpCDF	67562-39-4	0.773	JB	0.0267	5.76	1
11031	1234789-HpCDF	55673-89-7	0.129	JBQ	0.0355	5.76	1
11031	OCDF	39001-02-0	1.47	JB	0.0553	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-052-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296093
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD052 SDG#: DX087-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296093
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD052 SDG#: DX087-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 07:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296094
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX087-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296094
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX087-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.130	JQ	0.0181	1.12	1
11031	12378-PeCDD	40321-76-4	0.440	JB	0.0425	5.58	1
11031	123478-HxCDD	39227-28-6	0.379	JB	0.0660	5.58	1
11031	123678-HxCDD	57653-85-7	1.60	JB	0.0689	5.58	1
11031	123789-HxCDD	19408-74-3	1.79	JB	0.0645	5.58	1
11031	1234678-HpCDD	35822-46-9	27.4	B	0.0755	5.58	1
11031	OCDD	3268-87-9	358	B	0.0963	11.2	1
11031	2378-TCDF	51207-31-9	0.404	JB	0.0778	1.12	1
11031	12378-PeCDF	57117-41-6	0.870	JB	0.0363	5.58	1
11031	23478-PeCDF	57117-31-4	0.613	JBQ	0.0342	5.58	1
11031	123478-HxCDF	70648-26-9	0.623	JB	0.0463	5.58	1
11031	123678-HxCDF	57117-44-9	0.422	JB	0.0443	5.58	1
11031	123789-HxCDF	72918-21-9	1.63	JB	0.0512	5.58	1
11031	234678-HxCDF	60851-34-5	0.322	JB	0.0424	5.58	1
11031	1234678-HpCDF	67562-39-4	2.38	JB	0.0282	5.58	1
11031	1234789-HpCDF	55673-89-7	0.280	JB	0.0378	5.58	1
11031	OCDF	39001-02-0	5.12	JB	0.0491	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296094
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX087-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SS-0.0-0.5

LLI Sample # SW 6296094
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 08:40

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD053 SDG#: DX087-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 08:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296095
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX087-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296095
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX087-16FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0422	JQ	0.0212	1.12	1
11031	12378-PeCDD	40321-76-4	0.284	JBQ	0.0425	5.61	1
11031	123478-HxCDD	39227-28-6	0.416	JB	0.0902	5.61	1
11031	123678-HxCDD	57653-85-7	1.82	JB	0.0956	5.61	1
11031	123789-HxCDD	19408-74-3	1.22	JBQ	0.0915	5.61	1
11031	1234678-HpCDD	35822-46-9	73.8	B	0.121	5.61	1
11031	OCDD	3268-87-9	782	B	0.176	11.2	1
11031	2378-TCDF	51207-31-9	0.0788	U	0.0788	1.12	1
11031	12378-PeCDF	57117-41-6	0.676	JB	0.0402	5.61	1
11031	23478-PeCDF	57117-31-4	0.880	JB	0.0383	5.61	1
11031	123478-HxCDF	70648-26-9	0.581	JB	0.0503	5.61	1
11031	123678-HxCDF	57117-44-9	0.371	JB	0.0465	5.61	1
11031	123789-HxCDF	72918-21-9	0.613	JBQ	0.0533	5.61	1
11031	234678-HxCDF	60851-34-5	0.372	JB	0.0468	5.61	1
11031	1234678-HpCDF	67562-39-4	4.16	JB	0.0354	5.61	1
11031	1234789-HpCDF	55673-89-7	0.317	JBQ	0.0466	5.61	1
11031	OCDF	39001-02-0	13.0	B	0.0565	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA5DN-QC-052311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296095
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX087-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP05-SA5DN-QC-052311 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA5DN-QC-052311

LLI Sample # SW 6296095
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 09:35

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP05 SDG#: DX087-16FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 09:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB05-SA5DN-SS-052311 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5DN-SS-052311

LLI Sample # WW 6296096
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:05

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB05 SDG#: DX087-17EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	1.19	JQ	0.341	1.96	1
10915	12378-PeCDD	40321-76-4	0.774	JB	0.377	9.78	1
10915	123478-HxCDD	39227-28-6	2.29	JB	0.285	9.78	1
10915	123678-HxCDD	57653-85-7	2.08	JB	0.299	9.78	1
10915	123789-HxCDD	19408-74-3	3.86	JBQ	0.301	9.78	1
10915	1234678-HpCDD	35822-46-9	6.16	JBQ	0.356	9.78	1
10915	OCDD	3268-87-9	15.0	JB	0.433	19.6	1
10915	2378-TCDF	51207-31-9	1.14	JBQ	0.281	1.96	1
10915	12378-PeCDF	57117-41-6	1.55	JB	0.200	9.78	1
10915	23478-PeCDF	57117-31-4	2.21	JBQ	0.185	9.78	1
10915	123478-HxCDF	70648-26-9	1.93	JB	0.243	9.78	1
10915	123678-HxCDF	57117-44-9	1.16	JBQ	0.236	9.78	1
10915	123789-HxCDF	72918-21-9	1.79	JBQ	0.240	9.78	1
10915	234678-HxCDF	60851-34-5	3.36	JB	0.214	9.78	1
10915	1234678-HpCDF	67562-39-4	4.83	JBQ	0.267	9.78	1
10915	1234789-HpCDF	55673-89-7	3.65	JB	0.305	9.78	1
10915	OCDF	39001-02-0	6.45	JBQ	0.454	19.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB05-SA5DN-SS-052311 Water**
SSFL Area IV Collocated Soil Sampling
EB05-SA5DN-SS-052311

LLI Sample # WW 6296096
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:05

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB05 SDG#: DX087-17EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11147001	06/02/2011 05:56	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11147001	05/27/2011 08:00	Deborah M Zimmerman	1

Lancaster Laboratories

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Analysis Report

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296097
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDD35 SDG#: DX087-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296097
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDD35 SDG#: DX087-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.146	J	0.0236	1.13	1
11031	12378-PeCDD	40321-76-4	0.611	JB	0.0615	5.67	1
11031	123478-HxCDD	39227-28-6	0.914	JB	0.0955	5.67	1
11031	123678-HxCDD	57653-85-7	2.43	JB	0.0994	5.67	1
11031	123789-HxCDD	19408-74-3	1.88	JB	0.0956	5.67	1
11031	1234678-HpCDD	35822-46-9	63.7	B	0.104	5.67	1
11031	OCDD	3268-87-9	646	B	0.0791	11.3	1
11031	2378-TCDF	51207-31-9	2.04	B	0.0839	1.13	1
11650	2378-TCDF-Conf	51207-31-9	1.95	B	0.0479	1.13	1
11031	12378-PeCDF	57117-41-6	0.513	JB	0.0252	5.67	1
11031	23478-PeCDF	57117-31-4	0.671	JB	0.0244	5.67	1
11031	123478-HxCDF	70648-26-9	0.682	JB	0.0481	5.67	1
11031	123678-HxCDF	57117-44-9	0.515	JB	0.0471	5.67	1
11031	123789-HxCDF	72918-21-9	0.343	JB	0.0484	5.67	1
11031	234678-HxCDF	60851-34-5	0.687	JB	0.0433	5.67	1
11031	1234678-HpCDF	67562-39-4	8.42	B	0.0462	5.67	1
11031	1234789-HpCDF	55673-89-7	0.823	JBQ	0.0590	5.67	1
11031	OCDF	39001-02-0	21.0	B	0.0429	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-2378-TCDF-Conf	67	24 - 169
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SED-035-SIV-SD Sediment**
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296097
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDD35 SDG#: DX087-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SED-035-SIV-SD Sediment
SSFL Area IV Collocated Soil Sampling
SED-035-SIV-SD

LLI Sample # SW 6296097
LLI Group # 1248219
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:00

Submitted: 05/24/2011 09:40
Reported: 06/12/2011 18:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SDD35 SDG#: DX087-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11155001	06/08/2011 13:48	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11155001	06/09/2011 18:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11155001	06/04/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11153162401B	06/02/2011 17:29	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248219
Reported: 06/12/11 at 06:19 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11153162401B	Sample number(s): 6296082-6296083,6296086,6296093-6296094,6296097								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162402A	Sample number(s): 6296078-6296081,6296084-6296085,6296087-6296091								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162402B	Sample number(s): 6296092,6296095								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11147001	Sample number(s): 6296096								
2378-TCDD	0.409 U	0.409	2.00	pg/l	98		67-158		
12378-PeCDD	1.10 J	0.462	10.0	pg/l	99		70-142		
123478-HxCDD	1.05 J	0.375	10.0	pg/l	97		70-164		
123678-HxCDD	1.65 J	0.380	10.0	pg/l	98		76-134		
123789-HxCDD	1.92 J	0.379	10.0	pg/l	99		64-162		
1234678-HpCDD	5.92 J	0.571	10.0	pg/l	95		70-140		
OCDD	18.2 J	0.525	20.0	pg/l	95		78-144		
2378-TCDF	0.454 J	0.375	2.00	pg/l	102		75-158		
12378-PeCDF	1.09 J	0.272	10.0	pg/l	100		80-134		
23478-PeCDF	1.91 J	0.241	10.0	pg/l	100		68-160		
123478-HxCDF	1.89 J	0.286	10.0	pg/l	99		72-134		
123678-HxCDF	1.45 J	0.277	10.0	pg/l	97		84-130		
123789-HxCDF	1.58 J	0.314	10.0	pg/l	98		78-130		
234678-HxCDF	1.60 J	0.255	10.0	pg/l	97		70-156		
1234678-HpCDF	4.23 J	0.236	10.0	pg/l	94		82-122		
1234789-HpCDF	1.72 J	0.324	10.0	pg/l	99		78-138		
OCDF	6.41 J	0.629	20.0	pg/l	96		63-170		
Batch number: 11155001	Sample number(s): 6296078-6296095,6296097								
2378-TCDD	0.0253 U	0.0253	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0548 J	0.0216	5.00	ng/kg	107		70-142		
123478-HxCDD	0.0444 J	0.0190	5.00	ng/kg	106		70-164		
123678-HxCDD	0.0613 J	0.0196	5.00	ng/kg	106		76-134		
123789-HxCDD	0.106 J	0.0186	5.00	ng/kg	104		64-162		
1234678-HpCDD	0.294 J	0.0267	5.00	ng/kg	104		70-140		
OCDD	0.764 J	0.0310	10.0	ng/kg	104		78-144		
2378-TCDF	0.0258 J	0.0226	1.00	ng/kg	111		75-158		
2378-TCDF-Conf	0.0331 J	0.0235	1.00	ng/kg					
12378-PeCDF	0.0626 J	0.0117	5.00	ng/kg	106		80-134		
23478-PeCDF	0.0908 J	0.0107	5.00	ng/kg	104		68-160		
123478-HxCDF	0.0897 J	0.0161	5.00	ng/kg	107		72-134		
123678-HxCDF	0.0995 J	0.0147	5.00	ng/kg	105		84-130		
123789-HxCDF	0.145 J	0.0182	5.00	ng/kg	106		78-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248219
Reported: 06/12/11 at 06:19 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
234678-HxCDF	0.0869	J	0.0149	5.00	ng/kg	108		70-156		
1234678-HpCDF	0.229	J	0.0127	5.00	ng/kg	106		82-122		
1234789-HpCDF	0.103	J	0.0179	5.00	ng/kg	106		78-138		
OCDF	0.318	J	0.0347	10.0	ng/kg	107		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11153162401B	Sample number(s): 6296082-6296083,6296086,6296093-6296094,6296097 BKG: P296040								
Moisture Content by 160.3						13.1	13.8	6	20
Batch number: 11160162402A	Sample number(s): 6296078-6296081,6296084-6296085,6296087-6296091 BKG: P296047								
Moisture Content by 160.3						12.9	12.9	0	20
Batch number: 11160162402B	Sample number(s): 6296092,6296095 BKG: P301476								
Moisture Content by 160.3						9.5	9.8	2	20
Batch number: 11155001	Sample number(s): 6296078-6296095,6296097 UNSPK: 6296089								
2378-TCDD	103	102	67-158	3	25				
12378-PeCDD	106	107	70-142	1	25				
123478-HxCDD	106	106	70-164	2	25				
123678-HxCDD	106	105	76-134	2	25				
123789-HxCDD	105	105	64-162	2	25				
1234678-HpCDD	82	103	70-140	12	25				
OCDD	1*	162*	78-144	37*	25				
2378-TCDF	109	109	75-158	2	25				
12378-PeCDF	105	105	80-134	1	25				
23478-PeCDF	105	104	68-160	3	25				
123478-HxCDF	107	107	72-134	1	25				
123678-HxCDF	105	106	84-130	0	25				
123789-HxCDF	106	104	78-130	3	25				
234678-HxCDF	106	107	70-156	1	25				
1234678-HpCDF	104	104	82-122	1	25				
1234789-HpCDF	104	104	78-138	1	25				
OCDF	102	104	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11147001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6296096	67	73	65	68	71	76
Blank	56	59	51	54	56	55
OPR	63	72	67	69	70	72

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248219
Reported: 06/12/11 at 06:19 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6296096	68	73	73	78	68	64
Blank	57	53	53	83	54	53
OPR	75	72	73	78	69	66
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6296096	68	65	67	69	73	71
Blank	53	53	54	53	64	56
OPR	67	68	71	73	68	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11155001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6296078	68	70	57	61	74	73
6296079	60	64	61	64	69	65
6296080	62	65	60	63	69	67
6296081	62	65	67	69	70	70
6296082	63	64	36	41	68	68
6296083	56	55	42	45	56	57
6296084	69	69	52	56	71	74
6296085	81	81	78	79	80	85
6296086	73	71	73	73	73	76
6296087	71	72	68	73	74	73
6296088	70	70	70	70	67	65
6296089	67	67	66	67	68	71
6296090	64	63	65	67	66	64
6296091	72	73	63	65	69	71
6296092	66	69	68	70	69	66
6296093	70	69	56	60	68	66
6296094	84	82	79	81	84	85
6296095	68	66	66	68	68	68
6296097	63	61	56	57	62	65
Blank	65	69	68	73	74	72
MS	64	63	65	67	66	64
MSD	72	73	63	65	69	71
OPR	60	65	65	70	70	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6296078	70	65	55	81	72	73
6296079	68	64	58	75	66	70
6296080	65	63	58	78	66	68
6296081	71	67	64	75	67	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248219
Reported: 06/12/11 at 06:19 PM

Surrogate Quality Control

6296082	50	59	51	76	66	65
6296083	48	51	44	60	56	54
6296084	61	66	61	78	70	68
6296085	79	77	72	87	81	79
6296086	72	71	66	79	72	73
6296087	73	72	67	79	73	73
6296088	72	63	60	77	71	68
6296089	66	65	58	76	69	69
6296090	63	57	51	71	64	66
6296091	65	66	60	80	73	68
6296092	72	61	55	76	73	68
6296093	62	58	49	77	70	66
6296094	79	73	59	93	84	83
6296095	66	61	53	74	66	67
6296097	58	55	45	70	61	63
Blank	81	69	65	86	71	76
MS	63	57	51	71	64	66
MSD	65	66	60	80	73	68
OPR	78	61	54	81	65	73

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6296078	74	75	73	68	65	71
6296079	68	71	69	65	58	63
6296080	66	69	67	62	60	64
6296081	71	71	70	68	60	65
6296082	63	70	68	64	60	66
6296083	53	57	57	52	55	55
6296084	69	72	73	74	68	70
6296085	78	80	79	76	79	82
6296086	74	73	72	69	71	71
6296087	70	74	74	71	69	73
6296088	68	68	68	69	68	72
6296089	66	68	66	60	67	67
6296090	64	65	63	58	63	65
6296091	68	69	69	64	71	72
6296092	67	69	67	61	65	70
6296093	67	70	66	59	68	71
6296094	80	84	81	70	83	83
6296095	66	67	66	58	67	68
6296097	60	63	60	53	62	62
Blank	74	76	77	74	61	70
MS	64	65	63	58	63	65
MSD	68	69	69	64	71	72
OPR	70	72	72	71	58	65

Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6296078						
6296079						
6296080						
6296081						
6296082						
6296083						

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248219
Reported: 06/12/11 at 06:19 PM

Surrogate Quality Control

6296084	
6296085	
6296086	77
6296087	
6296088	
6296089	
6296090	
6296091	
6296092	
6296093	
6296094	
6296095	
6296097	67
Blank	70
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1248219 6296078-97

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									1
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-084-SA5DN-SB-4.5	5/23/11	0925	SOIL	NONE	4-Encores										X	X											
SL-084-SA5DN-SB-4.0-5.0	5/23/11	0930	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-089-SA5DN-SB-4.5	5/23/11	1020	SOIL	NONE	5-Encores										X	X	X										
SL-089-SA5DN-SB-4.0-5.0	5/23/11	1025	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-081-SA5DN-SB-4.5	5/23/11	1300	SOIL	NONE	5-Encores										X	X											
SL-081-SA5DN-SB-4.0-5.0	5/23/11	1310	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-081-SA5DN-SB-9.0-10.0	5/23/11	1315	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X									X					
SL-075-SA5DN-SB-4.5	5/23/11	1535	SOIL	NONE	4-Encores										X	X											
SL-075-SA5DN-SB-4.0-5.0	5/23/11	1540	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-075-SA5DN-SB-9.0-10.0	5/23/11	1545	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
TB-052311	5/23/11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 05/23/2011 / 1700		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 5/24/11 0840		Airbill No.(s) 8695 1441 7961, 7994, 8008,7972, 7983																								

13013 1248219 6296078-97

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: T Phan

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*VOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA5DN-SS-0.0-0.5	5/23/11	1210	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-015-SA5DN-SS-0.0-0.5	5/23/11	1210	SOIL	NONE	1-SS sleeve			X	X																	
SL-016-SA5DN-SS-0.0-0.5	5/23/11	1140	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-016-SA5DN-SS-0.0-0.5	5/23/11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-017-SA5DN-SS-0.0-0.5	5/23/11	1235	SOIL	NONE	1-16 oz jars	X	X	X	X	X	X	X	X		X	X										
SL-017-SA5DN-SS-0.0-0.5	5/23/11	1235	SOIL	NONE	1-SS sleeve			X	X																	
SL-019-SA5DN-SS-0.0-0.5	5/23/11	1030	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-019-SA5DN-SS-0.0-0.5	5/23/11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-021-SA5DN-SS-0.0-0.5	5/23/11	1100	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-021-SA5DN-SS-0.0-0.5	5/23/11	1100	SOIL	NONE	1-SS sleeve			X	X																	
SL-022-SA5DN-SS-0.0-0.5MS	5/23/11	0925	SOIL	NONE	4-16 oz jar	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-022-SA5DN-SS-0.0-0.5MS	5/23/11	0925	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD
SL-023-SA5DN-SS-0.0-0.5	5/23/11	1000	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-023-SA5DN-SS-0.0-0.5	5/23/11	1000	SOIL	NONE	1-SS sleeve			X	X																	
SL-052-SA5DN-SS-0.0-0.5	5/23/11	0900	SOIL	NONE	1-16 oz jars	X	X	X	X	X	X	X	X		X	X										
SL-052-SA5DN-SS-0.0-0.5	5/23/11	0900	SOIL	NONE	1-SS sleeve			X	X																	
SL-053-SA5DN-SS-0.0-0.5	5/23/11	0840	SOIL	NONE	1-16 oz jars	X	X	X	X	X	X	X	X		X	X										
SL-053-SA5DN-SS-0.0-0.5	5/23/11	0840	SOIL	NONE	1-SS sleeve			X	X																	
DUP05-SA5DN-QC-052311	5/23/11	0935	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DUP05-SA5DN-QC-052311	5/23/11	0935	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/23/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	5/24/11 0900	8695 1441 7961, 7994, 8008,7972, 7983	

13013 1248219 602607897

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: TPM

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	12-1 liter ambers			X	X	X				X	X	X			X	X		X			
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NaOH	1-500 mL glass																X				
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	1-250 mL glass													X							
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	1-500 mL poly		X				X	X	X												
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	HNO3	1-500 mL poly	X																			
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	HCl	2-40 mL vial																				
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	4-40 mL vial																			X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/23/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	5/24/11 1000	8695 1441 7961, 7994, 8008, 7972, 7983	

13013 1248219 6296078-97

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Methyl Mercury EPA Method 1630	**Organotin NOAA Status&Trends	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SED-035-SIV-SD	5.23.11	1500	WET SOIL	NONE	4-8 oz. Poly											X									
SED-035-SIV-SD	5.23.11	1500	WET SOIL	NONE	4-8 oz. Jars												X								
SED-035-SIV-SD	5.23.11	1500	WET SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X	X										
DUP01-SIV-SD	5.23.11	1510	WET SOIL	NONE	1-8 oz. Poly											X									
DUP01-SIV-SD	5.23.11	1510	WET SOIL	NONE	1-8 oz. Jars												X								
FB07-SIV-SS-052311	5.23.11	1600	WATER	NONE	1-L Amber											X									
FB07-SIV-SS-052311	5.23.11	1600	WATER	NONE	1-L Amber												X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/23/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	5/24/11 0900	8695 1441 7961, 7994, 8008,7972, 7983	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/25/2011
Group Number: 1248467
SDG: DE160
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA5DN-SS-0.0-0.5 Soil	6297552
SL-009-SA5DN-SS-0.0-0.5 Soil	6297553
SL-010-SA5DN-SS-0.0-0.5 Soil	6297554
SL-011-SA5DN-SS-0.0-0.5 Soil	6297555
SL-012-SA5DN-SS-0.0-0.5 Soil	6297556
SL-013-SA5DN-SS-0.0-0.5 Soil	6297557
SL-014-SA5DN-SS-0.0-0.5 Soil	6297558
SL-018-SA5DN-SS-0.0-0.5 Soil	6297559
SL-186-SA5DN-SS-0.0-0.5 Soil	6297560
SL-187-SA5DN-SS-0.0-0.5 Soil	6297561
SL-188-SA5DN-SS-0.0-0.5 Soil	6297562
SL-189-SA5DN-SS-0.0-0.5 Soil	6297563
SL-191-SA5DN-SS-0.0-0.5 Soil	6297564
SL-192-SA5DN-SS-0.0-0.5 Soil	6297565
SL-193-SA5DN-SS-0.0-0.5 Soil	6297566
SL-194-SA5DN-SS-0.0-0.5 Soil	6297567
SL-195-SA5DN-SS-0.0-0.5 Soil	6297568
SL-196-SA5DN-SS-0.0-0.5 Soil	6297569
SL-197-SA5DN-SS-0.0-0.5 Soil	6297570
SL-198-SA5DN-SS-0.0-0.5 Soil	6297571

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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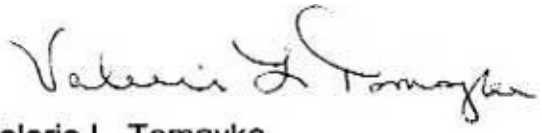
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297552
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-008- SDG#: DE160-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297552
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-008- SDG#: DE160-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.3		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	2.1		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	2.7		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.95	J	0.72	1.8		1
10138	Naphthalene	91-20-3	0.95	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	1.1	J	0.72	1.8		1
10138	Pyrene	129-00-0	2.7		0.72	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.7		1
10401	2,4-DB	94-82-6	0.70	U	0.70	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	420		82	270		1
10401	MCPP (Mecoprop)	93-65-2	100	U	100	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297552
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-008- SDG#: DE160-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.37		1
01363	p,p-DDT	50-29-3	1.5		0.071	0.37		1
01363	Delta BHC	319-86-8	0.11	U	0.11	0.18		1
01363	Dieldrin	60-57-1	0.45	U	0.45	0.45		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.40	U	0.40	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.098	U	0.098	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Endosulfan II							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	36		10
10225	Aroclor 5442	12642-23-8	11	U	11	36		10
10225	Aroclor 5460	11126-42-4	15	J	11	36		10
10225	PCB-1016	12674-11-2	3.6	U	3.6	18		10
10225	PCB-1221	11104-28-2	3.6	U	3.6	18		10
10225	PCB-1232	11141-16-5	3.6	U	3.6	18		10
10225	PCB-1242	53469-21-9	3.6	U	3.6	18		10
10225	PCB-1248	12672-29-6	3.6	U	3.6	18		10
10225	PCB-1254	11097-69-1	3.6	U	3.6	18		10
10225	PCB-1260	11096-82-5	22		4.2	18		10
10225	PCB-1262	37324-23-5	3.6	U	3.6	18		10
10225	PCB-1268	11100-14-4	3.6	U	3.6	18		10

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Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297552
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-008- SDG#: DE160-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.23	20.8		1
07914	Boron	7440-42-8	12.1		0.926	5.20		1
01650	Calcium	7440-70-2	37,800		6.38	20.8		1
01654	Iron	7439-89-6	24,100		4.90	20.8		1
01656	Lithium	7439-93-2	20.9		0.23	2.1		1
01657	Magnesium	7439-95-4	6,200		2.64	10.4		1
06958	Manganese	7439-96-5	356		0.0812	0.520		1
10145	Phosphorus	7723-14-0	476		0.583	10.4		1
01662	Potassium	7440-09-7	4,810		18.7	52.0		1
01667	Sodium	7440-23-5	126		38.8	104		1
07968	Strontium	7440-24-6	76.9		0.0645	0.520		1
06969	Tin	7440-31-5	2.49	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,420		0.399	1.05		1
10146	Zirconium	7440-67-7	3.47	J	0.874	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.26		0.0866	0.433		2
06126	Barium	7440-39-3	85.0		0.117	0.433		2
06127	Beryllium	7440-41-7	0.510		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.221		0.0433	0.108		2
06131	Chromium	7440-47-3	21.3		0.130	0.433		2
06132	Cobalt	7440-48-4	6.96		0.0216	0.108		2
06133	Copper	7440-50-8	10.8		0.0714	0.433		2
06135	Lead	7439-92-1	7.36		0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.315		0.0541	0.108		2
06139	Nickel	7440-02-0	13.6		0.108	0.433		2
06141	Selenium	7782-49-2	0.178	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0289	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.271		0.0325	0.108		2
06148	Vanadium	7440-62-2	40.7		0.0238	0.108		2
06149	Zinc	7440-66-6	52.1		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297552
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-008- SDG#: DE160-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.19	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 00:56	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/09/2011 00:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 08:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 17:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 18:42	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297552
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-008- SDG#: DE160-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 02:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 15:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:15	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 15:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 15:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 15:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 01:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/06/2011 09:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	05/31/2011 19:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297553
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-009- SDG#: DE160-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	220	U	220	650		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,400		1
04688	Benzoic acid	65-85-0	220	U	220	650		1
04688	Benzyl alcohol	100-51-6	220	U	220	650		1
04688	4-Bromophenyl-phenylether	101-55-3	22	U	22	220		1
04688	Butylbenzylphthalate	85-68-7	22	U	22	220		1
04688	Di-n-butylphthalate	84-74-2	22	U	22	220		1
04688	Carbazole	86-74-8	22	U	22	220		1
04688	4-Chloro-3-methylphenol	59-50-7	44	U	44	220		1
04688	4-Chloroaniline	106-47-8	87	U	87	220		1
04688	bis(2-Chloroethoxy)methane	111-91-1	22	U	22	220		1
04688	bis(2-Chloroethyl)ether	111-44-4	22	U	22	220		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	22	U	22	220		1
04688	2-Chloronaphthalene	91-58-7	22	U	22	220		1
04688	2-Chlorophenol	95-57-8	22	U	22	220		1
04688	4-Chlorophenyl-phenylether	7005-72-3	44	U	44	220		1
04688	Dibenzofuran	132-64-9	22	U	22	220		1
04688	1,2-Dichlorobenzene	95-50-1	22	U	22	220		1
04688	1,3-Dichlorobenzene	541-73-1	22	U	22	220		1
04688	1,4-Dichlorobenzene	106-46-7	22	U	22	220		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	440		1
04688	2,4-Dichlorophenol	120-83-2	22	U	22	220		1
04688	Diethylphthalate	84-66-2	22	U	22	220		1
04688	2,4-Dimethylphenol	105-67-9	44	U	44	220		1
04688	3,5-Dimethylphenol	108-68-9	44	U	44	220		1
04688	Dimethylphthalate	131-11-3	22	U	22	220		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	220	U	220	650		1
04688	2,4-Dinitrophenol	51-28-5	440	U	440	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	44	U	44	220		1
04688	2,6-Dinitrotoluene	606-20-2	22	U	22	220		1
04688	1,2-Diphenylhydrazine	122-66-7	22	U	22	220		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	61	J	22	440		1
04688	Hexachlorobenzene	118-74-1	22	U	22	220		1
04688	Hexachlorobutadiene	87-68-3	87	U	87	220		1
04688	Hexachlorocyclopentadiene	77-47-4	220	U	220	650		1
04688	Hexachloroethane	67-72-1	22	U	22	220		1
04688	Isophorone	78-59-1	22	U	22	220		1
04688	2-Methylphenol	95-48-7	44	U	44	220		1
04688	4-Methylphenol	106-44-5	44	U	44	220		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	22	U	22	220		1
04688	3-Nitroaniline	99-09-2	44	U	44	220		1
04688	4-Nitroaniline	100-01-6	87	U	87	220		1
04688	Nitrobenzene	98-95-3	22	U	22	220		1
04688	2-Nitrophenol	88-75-5	22	U	22	220		1
04688	4-Nitrophenol	100-02-7	220	U	220	650		1
04688	N-Nitroso-di-n-propylamine	621-64-7	22	U	22	220		1
04688	N-Nitrosodiphenylamine	86-30-6	22	U	22	220		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297553
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-009- SDG#: DE160-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	220	U	220	650		1
04688	Phenol	108-95-2	22	U	22	220		1
04688	1,2,4-Trichlorobenzene	120-82-1	22	U	22	220		1
04688	2,4,5-Trichlorophenol	95-95-4	44	U	44	220		1
04688	2,4,6-Trichlorophenol	88-06-2	44	U	44	220		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.4	U	4.4	11		5
10138	Acenaphthylene	208-96-8	2.2	U	2.2	11		5
10138	Anthracene	120-12-7	14		2.2	11		5
10138	Benzo(a)anthracene	56-55-3	85		4.4	11		5
10138	Benzo(a)pyrene	50-32-8	71		4.4	11		5
10138	Benzo(b)fluoranthene	205-99-2	93		4.4	11		5
10138	Benzo(g,h,i)perylene	191-24-2	40		4.4	11		5
10138	Benzo(k)fluoranthene	207-08-9	34		4.4	11		5
10138	Chrysene	218-01-9	98		2.2	11		5
10138	Dibenz(a,h)anthracene	53-70-3	12		4.4	11		5
10138	Fluoranthene	206-44-0	140		4.4	11		5
10138	Fluorene	86-73-7	4.4	U	4.4	11		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33		4.4	11		5
10138	1-Methylnaphthalene	90-12-0	4.4	U	4.4	11		5
10138	2-Methylnaphthalene	91-57-6	4.4	U	4.4	11		5
10138	Naphthalene	91-20-3	4.4	U	4.4	11		5
10138	N-Nitrosodimethylamine	62-75-9	4.4	U	4.4	11		5
10138	Di-n-octylphthalate	117-84-0	51	J	39	120		5
10138	Phenanthrene	85-01-8	62		4.4	11		5
10138	Pyrene	129-00-0	140		4.4	11		5

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.6	U	1.6	4.7		1
10401	Dalapon	75-99-0	5.8	U	5.8	12		1
10401	2,4-DB	94-82-6	0.81	U	0.81	2.2		1
10401	Dicamba	1918-00-9	0.52	U	0.52	1.6		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.1		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2		1
10401	MCPA	94-74-6	200	J	100	330		1
10401	MCPP (Mecoprop)	93-65-2	98	U	98	330		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.22		1
10401	2,4,5-TP	93-72-1	0.098	U	0.098	0.22		1

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Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297553
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-009- SDG#: DE160-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.087	U	0.087	0.22		1
01363	Alpha BHC	319-84-6	0.045	U	0.045	0.22		1
01363	Beta BHC	319-85-7	0.23		0.079	0.22		1
01363	Gamma BHC - Lindane	58-89-9	0.045	U	0.045	0.22		1
01363	Chlordane	57-74-9	1.1	U	1.1	4.5		1
01363	p,p-DDD	72-54-8	0.087	U	0.087	0.45		1
01363	p,p-DDE	72-55-9	0.47		0.087	0.45		1
01363	p,p-DDT	50-29-3	1.8		0.087	0.45		1
01363	Delta BHC	319-86-8	0.13	J	0.047	0.22		1
01363	Dieldrin	60-57-1	0.41	U	0.41	0.45		1
01363	Endosulfan I	959-98-8	0.058	U	0.058	0.22		1
01363	Endosulfan II	33213-65-9	0.37	U	0.37	0.45		1
01363	Endosulfan Sulfate	1031-07-8	0.087	U	0.087	0.45		1
01363	Endrin	72-20-8	0.087	U	0.087	0.45		1
01363	Endrin Aldehyde	7421-93-4	0.087	U	0.087	0.45		1
01363	Endrin Ketone	53494-70-5	0.099	U	0.099	0.45		1
01363	Heptachlor	76-44-8	0.079	U	0.079	0.22		1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.22		1
01363	Methoxychlor	72-43-5	0.45	U	0.45	2.2		1
01363	Mirex	2385-85-5	0.087	U	0.087	0.45		1
01363	Toxaphene	8001-35-2	2.9	U	2.9	8.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.6	U	6.6	22		5
10225	Aroclor 5442	12642-23-8	6.6	U	6.6	22		5
10225	Aroclor 5460	11126-42-4	6.6	U	6.6	22		5
10225	PCB-1016	12674-11-2	2.2	U	2.2	11		5
10225	PCB-1221	11104-28-2	2.2	U	2.2	11		5
10225	PCB-1232	11141-16-5	2.2	U	2.2	11		5
10225	PCB-1242	53469-21-9	2.2	U	2.2	11		5
10225	PCB-1248	12672-29-6	2.2	U	2.2	11		5
10225	PCB-1254	11097-69-1	2.2	U	2.2	11		5
10225	PCB-1260	11096-82-5	2.6	U	2.6	11		5
10225	PCB-1262	37324-23-5	2.2	U	2.2	11		5
10225	PCB-1268	11100-14-4	2.2	U	2.2	11		5

Reporting limits were raised due to interference from the sample matrix.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		6.42	25.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297553
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-009- SDG#: DE160-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	13.1		1.14	6.38		1
01650	Calcium	7440-70-2	35,000		7.82	25.5		1
01654	Iron	7439-89-6	27,300		6.01	25.5		1
01656	Lithium	7439-93-2	21.6		0.28	2.6		1
01657	Magnesium	7439-95-4	6,470		3.24	12.8		1
06958	Manganese	7439-96-5	398		0.0995	0.638		1
10145	Phosphorus	7723-14-0	588		0.714	12.8		1
01662	Potassium	7440-09-7	4,980		23.0	63.8		1
01667	Sodium	7440-23-5	111	J	47.6	128		1
07968	Strontium	7440-24-6	76.6		0.0791	0.638		1
06969	Tin	7440-31-5	3.35	J	1.28	12.8		1
06970	Titanium	7440-32-6	1,500		0.499	1.31		1
10146	Zirconium	7440-67-7	2.84	J	1.07	6.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.286		0.0758	0.253		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.21		0.101	0.505		2
06126	Barium	7440-39-3	134		0.136	0.505		2
06127	Beryllium	7440-41-7	0.584		0.0202	0.126		2
06128	Cadmium	7440-43-9	0.388		0.0505	0.126		2
06131	Chromium	7440-47-3	30.1		0.152	0.505		2
06132	Cobalt	7440-48-4	9.94		0.0253	0.126		2
06133	Copper	7440-50-8	16.3		0.0834	0.505		2
06135	Lead	7439-92-1	13.8		0.0131	0.253		2
06138	Molybdenum	7439-98-7	0.570		0.0632	0.126		2
06139	Nickel	7440-02-0	19.5		0.126	0.505		2
06141	Selenium	7782-49-2	0.219	J	0.0505	0.505		2
06142	Silver	7440-22-4	0.0445	J	0.0152	0.126		2
06145	Thallium	7440-28-0	0.343		0.0379	0.126		2
06148	Vanadium	7440-62-2	57.3		0.0278	0.126		2
06149	Zinc	7440-66-6	123		0.708	3.79		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0037	U	0.0037	0.128		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	J	1.1	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.8	U	11.8	39.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.26	1.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297553
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-009- SDG#: DE160-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	23.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	02:11	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/09/2011	01:41	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	08:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011	17:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011	19:38	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011	02:46	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297553
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-009- SDG#: DE160-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 02:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 15:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:24	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 15:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 15:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 15:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 02:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/06/2011 10:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	05/31/2011 21:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297554
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-010- SDG#: DE160-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297554
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-010- SDG#: DE160-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.5		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.5		5
10138	Benzo(b)fluoranthene	205-99-2	3.4	U	3.4	8.5		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.5		5
10138	Chrysene	218-01-9	1.7	U	1.7	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.5		5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.5		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.5		5
10138	Pyrene	129-00-0	3.4	U	3.4	8.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	200	J	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.11	J	0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297554
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-010- SDG#: DE160-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.067	U	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.087	J	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		5.07	20.1		1
07914	Boron	7440-42-8	3.92	J	0.896	5.04		1
01650	Calcium	7440-70-2	5,230		6.17	20.1		1
01654	Iron	7439-89-6	22,900		4.74	20.1		1
01656	Lithium	7439-93-2	13.3		0.22	2.0		1
01657	Magnesium	7439-95-4	5,550		2.56	10.1		1
06958	Manganese	7439-96-5	291		0.0786	0.504		1
10145	Phosphorus	7723-14-0	714		0.564	10.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297554
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-010- SDG#: DE160-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	4,740		18.1	50.4		1
01667	Sodium	7440-23-5	257		37.6	101		1
07968	Strontium	7440-24-6	31.0		0.0624	0.504		1
06969	Tin	7440-31-5	2.21	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,530		0.383	1.01		1
10146	Zirconium	7440-67-7	0.846	U	0.846	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0581	U	0.0581	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	1.72		0.0775	0.388		2
06126	Barium	7440-39-3	142		0.262	0.969		5
06127	Beryllium	7440-41-7	0.143		0.0155	0.0969		2
06128	Cadmium	7440-43-9	0.0697	J	0.0388	0.0969		2
06131	Chromium	7440-47-3	21.5		0.116	0.388		2
06132	Cobalt	7440-48-4	7.34		0.0194	0.0969		2
06133	Copper	7440-50-8	14.8		0.0639	0.388		2
06135	Lead	7439-92-1	3.17		0.0101	0.194		2
06138	Molybdenum	7439-98-7	0.144		0.0484	0.0969		2
06139	Nickel	7440-02-0	9.04		0.0969	0.388		2
06141	Selenium	7782-49-2	0.0388	U	0.0388	0.388		2
06142	Silver	7440-22-4	0.0116	U	0.0116	0.0969		2
06145	Thallium	7440-28-0	0.246		0.0291	0.0969		2
06148	Vanadium	7440-62-2	41.8		0.0213	0.0969		2
06149	Zinc	7440-66-6	61.0		0.543	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.0997		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.7		0.50	0.50		1

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Analysis Report

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297554
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-010- SDG#: DE160-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 02:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/09/2011 02:14	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 05:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 18:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 19:56	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 04:59	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 02:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 20:54	David K Beck	5
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:25	David K Beck	2

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Analysis Report

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297554
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-010- SDG#: DE160-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 15:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 15:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 15:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 02:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/06/2011 10:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	05/31/2011 21:17	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297555
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-011- SDG#: DE160-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	90	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297555
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-011- SDG#: DE160-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	2.7	J	1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	10		3.8	9.4		5
10138	Benzo(a)pyrene	50-32-8	9.8		3.8	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	18		3.8	9.4		5
10138	Benzo(g,h,i)perylene	191-24-2	9.4		3.8	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.8	J	3.8	9.4		5
10138	Chrysene	218-01-9	15		1.9	9.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.4		5
10138	Fluoranthene	206-44-0	22		3.8	9.4		5
10138	Fluorene	86-73-7	3.8	U	3.8	9.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1	J	3.8	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.4		5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.4		5
10138	Phenanthrene	85-01-8	12		3.8	9.4		5
10138	Pyrene	129-00-0	19		3.8	9.4		5
	Reporting limits were raised due to interference from the sample matrix.							
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.98	U	0.98	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	410		85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297555
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-011- SDG#: DE160-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.13	J	0.038	0.19		1
01363	Chlordane	57-74-9	2.1	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.38		1
01363	p,p-DDT	50-29-3	1.1		0.074	0.38		1
01363	Delta BHC	319-86-8	0.11	J	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.38		1
01363	Endrin Ketone	53494-70-5	0.15	U	0.15	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.053	U	0.053	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Endosulfan II							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	6.2		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297555
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-011- SDG#: DE160-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,000		5.50	21.9		1
07914	Boron	7440-42-8	13.1		0.973	5.47		1
01650	Calcium	7440-70-2	32,100		6.70	21.9		1
01654	Iron	7439-89-6	27,700		5.15	21.9		1
01656	Lithium	7439-93-2	21.8		0.24	2.2		1
01657	Magnesium	7439-95-4	6,370		2.78	10.9		1
06958	Manganese	7439-96-5	418		0.0853	0.547		1
10145	Phosphorus	7723-14-0	507		0.612	10.9		1
01662	Potassium	7440-09-7	4,870		19.7	54.7		1
01667	Sodium	7440-23-5	110		40.8	109		1
07968	Strontium	7440-24-6	71.1		0.0678	0.547		1
06969	Tin	7440-31-5	2.62	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,420		0.428	1.13		1
10146	Zirconium	7440-67-7	3.22	J	0.918	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.171	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.38		0.0883	0.442		2
06126	Barium	7440-39-3	138		0.119	0.442		2
06127	Beryllium	7440-41-7	0.551		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.321		0.0442	0.110		2
06131	Chromium	7440-47-3	30.4		0.132	0.442		2
06132	Cobalt	7440-48-4	10.5		0.0221	0.110		2
06133	Copper	7440-50-8	15.9		0.0729	0.442		2
06135	Lead	7439-92-1	11.5		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.412		0.0552	0.110		2
06139	Nickel	7440-02-0	19.8		0.110	0.442		2
06141	Selenium	7782-49-2	0.207	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0310	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.321		0.0331	0.110		2
06148	Vanadium	7440-62-2	59.3		0.0243	0.110		2
06149	Zinc	7440-66-6	77.9		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.23	1.1		1

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Analysis Report

Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297555
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-011- SDG#: DE160-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	03:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/09/2011	02:46	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	09:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011	18:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111470010A	06/16/2011	12:08	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111470010A	05/30/2011	08:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011	03:02	Tara L Snyder	1

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Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297555
LLI Group # 1248467
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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-011- SDG#: DE160-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 15:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 15:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 15:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 15:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 02:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/07/2011 16:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 21:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297556
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-012- SDG#: DE160-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	21.5	J	18.7	37.5		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(g,h,i)perylene	191-24-2	85	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	26	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenz(a,h)anthracene	53-70-3	29	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	37	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	78	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1

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Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297556
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-012- SDG#: DE160-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	26		3.7	9.4		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4		5
10138	Anthracene	120-12-7	270		1.9	9.4		5
10138	Benzo(a)anthracene	56-55-3	500		3.7	9.4		5
10138	Benzo(a)pyrene	50-32-8	240		3.7	9.4		5
10138	Benzo(b)fluoranthene	205-99-2	340		3.7	9.4		5
10138	Benzo(k)fluoranthene	207-08-9	150		3.7	9.4		5
10138	Chrysene	218-01-9	460		1.9	9.4		5
10138	Fluoranthene	206-44-0	1,200		3.7	9.4		5
10138	Fluorene	86-73-7	47		3.7	9.4		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.4		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.4		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.4		5
10138	Phenanthrene	85-01-8	910		3.7	9.4		5
10138	Pyrene	129-00-0	1,100		3.7	9.4		5

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297556
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-012- SDG#: DE160-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	160	J	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1

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14420 Albemarle Point Place
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-012- SDG#: DE160-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.074	U	0.074	0.38		1
01363	p,p-DDT	50-29-3	0.17	J	0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.42		0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	23		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	11	U	11	34		25

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297556
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-012- SDG#: DE160-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	11	U	11	34		25
10199	EFH (C21-C30)	n.a.	62		11	34		25
10199	EFH (C30 - C40)	n.a.	220		11	34		25
10199	EFH (C8-C11)	n.a.	11	U	11	34		25
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,000		5.43	21.6		1
07914	Boron	7440-42-8	7.38		0.962	5.40		1
01650	Calcium	7440-70-2	13,700		6.62	21.6		1
01654	Iron	7439-89-6	31,300		25.4	108		5
01656	Lithium	7439-93-2	26.5		0.24	2.2		1
01657	Magnesium	7439-95-4	6,610		2.74	10.8		1
06958	Manganese	7439-96-5	346		0.0843	0.540		1
10145	Phosphorus	7723-14-0	256		0.605	10.8		1
01662	Potassium	7440-09-7	3,040		19.4	54.0		1
01667	Sodium	7440-23-5	265		40.3	108		1
07968	Strontium	7440-24-6	42.5		0.0670	0.540		1
06969	Tin	7440-31-5	2.89	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,190		0.419	1.10		1
10146	Zirconium	7440-67-7	2.78	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.160	J	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.34		0.0899	0.449		2
06126	Barium	7440-39-3	184		0.121	0.449		2
06127	Beryllium	7440-41-7	0.763		0.0180	0.112		2
06128	Cadmium	7440-43-9	0.232		0.0449	0.112		2

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SL-012-SA5DN-SS-0.0-0.5

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Suite 210
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-012- SDG#: DE160-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	32.7	0.135	0.449		2
06132	Cobalt	7440-48-4	9.76	0.0225	0.112		2
06133	Copper	7440-50-8	19.9	0.0742	0.449		2
06135	Lead	7439-92-1	13.1	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.411	0.0562	0.112		2
06139	Nickel	7440-02-0	22.7	0.112	0.449		2
06141	Selenium	7782-49-2	0.148 J	0.0449	0.449		2
06142	Silver	7440-22-4	0.0568 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.371	0.0337	0.112		2
06148	Vanadium	7440-62-2	58.7	0.0247	0.112		2
06149	Zinc	7440-66-6	181	1.57	8.43		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.7	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.63	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297556
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-012- SDG#: DE160-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 13:10	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 03:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/09/2011 03:18	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 07:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 01:32	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 09:37	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 22:24	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 19:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 20:33	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/05/2011 00:03	Heather E Williams	25
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 00:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 00:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 23:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011 05:11	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1

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Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297556
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-012- SDG#: DE160-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 20:56	David K Beck	5
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 03:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203A	06/01/2011 03:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/07/2011 16:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 21:46	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 08:49	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.4	J	17.3	34.6		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	78	J	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	11		3.5	8.6		5
10138	Benzo(a)pyrene	50-32-8	12		3.5	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	20		3.5	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	12		3.5	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	8.4	J	3.5	8.6		5
10138	Chrysene	218-01-9	17		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.5	8.6		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	50	J	31	93		5
10138	Fluoranthene	206-44-0	16		3.5	8.6		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.0	J	3.5	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.6		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.6		5
10138	Phenanthrene	85-01-8	4.0	J	3.5	8.6		5
10138	Pyrene	129-00-0	19		3.5	8.6		5

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	59	U	59	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	39	U	39	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	78	U	78	230	10000000	1

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Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	78	U	78	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	39	U	39	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	39	U	39	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	39	U	39	120	10000000	1
10132	HMX	2691-41-0	98	U	98	290	10000000	1
10132	Nitrobenzene	98-95-3	39	U	39	120	10000000	1
10132	Nitroglycerin	55-63-0	780	U	780	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	78	U	78	120	10000000	1
10132	3-Nitrotoluene	99-08-1	98	U	98	120	10000000	1
10132	4-Nitrotoluene	99-99-0	78	U	78	120	10000000	1
10132	PETN	78-11-5	780	U	780	2,300	10000000	1
10132	RDX	121-82-4	49	U	49	120	10000000	1
10132	Tetryl	479-45-8	60	U	60	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	39	U	39	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	39	U	39	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	2.6		0.64	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	540	U	540	540		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.

HPLC Organics	**SW-846 8315A**	ug/kg	ug/kg	ug/kg	ug/kg

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	620	U	620	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.95	U	0.95	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35		1
01363	p,p-DDT	50-29-3	0.36		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.10	U	0.10	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1

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Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268		11100-14-4	0.34	U	0.34	1.8		1
GC Extractable TPH		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	21	U	21	62		50
10199	EFH (C15-C20)		n.a.	21	U	21	62		50
10199	EFH (C21-C30)		n.a.	120		21	62		50
10199	EFH (C30 - C40)		n.a.	350		21	62		50
10199	EFH (C8-C11)		n.a.	21	U	21	62		50
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	100	U	100	520		1
10501	Isopropanol		67-63-0	100	U	100	520		1
10501	Methanol		67-56-1	100	U	100	520		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol		107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol		57-55-6	5.2	U	5.2	10		1
Terphenyls		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl		84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl		92-94-4	1.6	U	1.6	3.6		1
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	14,700		5.07	20.1		1
07914	Boron		7440-42-8	5.29		0.896	5.04		1
01650	Calcium		7440-70-2	6,580		6.17	20.1		1
01654	Iron		7439-89-6	22,200		4.74	20.1		1
01656	Lithium		7439-93-2	15.1		0.22	2.0		1
01657	Magnesium		7439-95-4	5,080		2.56	10.1		1
06958	Manganese		7439-96-5	286		0.0786	0.504		1
10145	Phosphorus		7723-14-0	664		0.564	10.1		1
01662	Potassium		7440-09-7	3,500		18.1	50.4		1
01667	Sodium		7440-23-5	250		37.6	101		1
07968	Strontium		7440-24-6	35.8		0.0624	0.504		1
06969	Tin		7440-31-5	2.31	J	1.01	10.1		1
06970	Titanium		7440-32-6	1,310		0.386	1.02		1
10146	Zirconium		7440-67-7	1.71	J	0.846	5.04		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.0962	J	0.0616	0.205		2

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Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.56		0.0822	0.411		2
06126	Barium	7440-39-3	150		0.111	0.411		2
06127	Beryllium	7440-41-7	0.295		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.196		0.0411	0.103		2
06131	Chromium	7440-47-3	17.8		0.123	0.411		2
06132	Cobalt	7440-48-4	7.38		0.0205	0.103		2
06133	Copper	7440-50-8	15.4		0.0678	0.411		2
06135	Lead	7439-92-1	7.54		0.0107	0.205		2
06138	Molybdenum	7439-98-7	0.810		0.0514	0.103		2
06139	Nickel	7440-02-0	12.2		0.103	0.411		2
06141	Selenium	7782-49-2	1.08		0.0411	0.411		2
06142	Silver	7440-22-4	0.0320	J	0.0123	0.103		2
06145	Thallium	7440-28-0	0.210		0.0308	0.103		2
06148	Vanadium	7440-62-2	38.7		0.0226	0.103		2
06149	Zinc	7440-66-6	62.7		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	J	0.0028	0.0985		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.61		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 14:01	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 03:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/09/2011 03:50	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 08:05	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 01:41	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 10:04	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/06/2011 17:51	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 19:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 20:52	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/05/2011 02:11	Heather E Williams	50
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 00:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 01:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/03/2011 00:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1

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Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:10	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 03:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203A	06/01/2011 03:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11153373203A	06/10/2011 13:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 21:57	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 08:53	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297557
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-013- SDG#: DE160-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	43.8		18.5	36.9		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	29	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	13		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	16		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	22		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	11		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	10		3.7	9.2		5
10138	Chrysene	218-01-9	16		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	16		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.8	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	5.4	J	3.7	9.2		5
10138	Pyrene	129-00-0	20		3.7	9.2		5

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9		1
10401	2,4-DB	94-82-6	0.93	U	0.93	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	580		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

HPLC Organics	**SW-846 8315A**	ug/kg	ug/kg	ug/kg	ug/kg

*=This limit was used in the evaluation of the final result
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Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.15	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	1.9	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.20	U	0.20	0.38		1
01363	p,p-DDT	50-29-3	2.2		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.19		0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	11	U	11	37		10
10225	Aroclor 5442	12642-23-8	11	U	11	37		10
10225	Aroclor 5460	11126-42-4	11	U	11	37		10
10225	PCB-1016	12674-11-2	3.7	U	3.7	19		10
10225	PCB-1221	11104-28-2	3.7	U	3.7	19		10
10225	PCB-1232	11141-16-5	3.7	U	3.7	19		10
10225	PCB-1242	53469-21-9	3.7	U	3.7	19		10
10225	PCB-1248	12672-29-6	3.7	U	3.7	19		10
10225	PCB-1254	11097-69-1	3.7	U	3.7	19		10
10225	PCB-1260	11096-82-5	34		4.3	19		10

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	3.7	U	3.7	19		10
10225	PCB-1268		11100-14-4	3.7	U	3.7	19		10
GC Extractable TPH		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	11	U	11	33		25
10199	EFH (C15-C20)		n.a.	11	U	11	33		25
10199	EFH (C21-C30)		n.a.	64		11	33		25
10199	EFH (C30 - C40)		n.a.	230		11	33		25
10199	EFH (C8-C11)		n.a.	11	U	11	33		25
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	110	U	110	550		1
10501	Isopropanol		67-63-0	110	U	110	550		1
10501	Methanol		67-56-1	110	U	110	550		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol		107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol		57-55-6	5.5	U	5.5	11		1
Terphenyls		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl		84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl		92-94-4	1.7	U	1.7	3.9		1
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	33,600		5.36	21.3		1
07914	Boron		7440-42-8	11.3		0.948	5.32		1
01650	Calcium		7440-70-2	12,400		6.53	21.3		1
01654	Iron		7439-89-6	33,600		25.1	106		5
01656	Lithium		7439-93-2	27.1		0.23	2.1		1
01657	Magnesium		7439-95-4	7,110		2.70	10.6		1
06958	Manganese		7439-96-5	421		0.0831	0.532		1
10145	Phosphorus		7723-14-0	389		0.596	10.6		1
01662	Potassium		7440-09-7	4,360		19.2	53.2		1
01667	Sodium		7440-23-5	218		39.7	106		1
07968	Strontium		7440-24-6	47.1		0.0660	0.532		1
06969	Tin		7440-31-5	2.77	J	1.06	10.6		1
06970	Titanium		7440-32-6	1,510		0.405	1.06		1
10146	Zirconium		7440-67-7	4.20	J	0.894	5.32		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.172	J	0.0639	0.213		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.98	0.0852	0.426		2
06126	Barium	7440-39-3	150	0.288	1.06		5
06127	Beryllium	7440-41-7	0.773	0.0170	0.106		2
06128	Cadmium	7440-43-9	0.362	0.0426	0.106		2
06131	Chromium	7440-47-3	39.5	0.128	0.426		2
06132	Cobalt	7440-48-4	13.6	0.0213	0.106		2
06133	Copper	7440-50-8	21.5	0.0703	0.426		2
06135	Lead	7439-92-1	14.5	0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.452	0.0532	0.106		2
06139	Nickel	7440-02-0	27.5	0.106	0.426		2
06141	Selenium	7782-49-2	0.144 J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0625 J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.441	0.0319	0.106		2
06148	Vanadium	7440-62-2	74.3	0.0234	0.106		2
06149	Zinc	7440-66-6	99.5	0.596	3.19		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4 J	0.89	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.7	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 14:19	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 04:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 08:14	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 08:47	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 01:51	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 10:32	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 22:42	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 19:42	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 21:10	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/05/2011 01:19	Heather E Williams	25
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 00:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 01:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/03/2011 02:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011 05:15	Tara L Snyder	5

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Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:45	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 20:58	David K Beck	5
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:34	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 03:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203A	06/01/2011 03:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/07/2011 17:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 22:09	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 08:54	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-014-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297558
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-014- SDG#: DE160-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297559
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-018- SDG#: DE160-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	32.1	J	18.3	36.6		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(g,h,i)perylene	191-24-2	19	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	19	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

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Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297559
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-018- SDG#: DE160-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	6.0	J	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	8.6	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	11		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	5.8	J	3.7	9.2		5
10138	Chrysene	218-01-9	11		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.7	9.2		5
10138	Fluoranthene	206-44-0	13		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	5.6	J	3.7	9.2		5
10138	Pyrene	129-00-0	14		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1

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Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297559
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-018- SDG#: DE160-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.6	U	1.6	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	670	U	670	670		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.19		1
10401	2,4,5-TP	93-72-1	0.099	U	0.099	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1

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SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297559
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-018- SDG#: DE160-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.6	J	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.55		0.072	0.37		1
01363	p,p-DDT	50-29-3	5.8		0.36	1.9		5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.85	U	0.85	0.85		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	22	U	22	73		20
10225	Aroclor 5442	12642-23-8	22	U	22	73		20
10225	Aroclor 5460	11126-42-4	22	U	22	73		20
10225	PCB-1016	12674-11-2	7.3	U	7.3	37		20
10225	PCB-1221	11104-28-2	7.3	U	7.3	37		20
10225	PCB-1232	11141-16-5	7.3	U	7.3	37		20
10225	PCB-1242	53469-21-9	7.3	U	7.3	37		20
10225	PCB-1248	12672-29-6	7.3	U	7.3	37		20
10225	PCB-1254	11097-69-1	7.3	U	7.3	37		20
10225	PCB-1260	11096-82-5	200		8.6	37		20
10225	PCB-1262	37324-23-5	7.3	U	7.3	37		20
10225	PCB-1268	11100-14-4	7.3	U	7.3	37		20

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SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297559
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

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14420 Albemarle Point Place
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-018- SDG#: DE160-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	66		50
10199	EFH (C15-C20)	n.a.	22	U	22	66		50
10199	EFH (C21-C30)	n.a.	160		22	66		50
10199	EFH (C30 - C40)	n.a.	710		22	66		50
10199	EFH (C8-C11)	n.a.	22	U	22	66		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,800		5.42	21.5		1
07914	Boron	7440-42-8	11.0		0.959	5.39		1
01650	Calcium	7440-70-2	7,840		6.60	21.5		1
01654	Iron	7439-89-6	31,900		25.4	108		5
01656	Lithium	7439-93-2	23.2		0.24	2.2		1
01657	Magnesium	7439-95-4	6,170		2.74	10.8		1
06958	Manganese	7439-96-5	404		0.0840	0.539		1
10145	Phosphorus	7723-14-0	372		0.603	10.8		1
01662	Potassium	7440-09-7	4,510		19.4	53.9		1
01667	Sodium	7440-23-5	125		40.2	108		1
07968	Strontium	7440-24-6	39.0		0.0668	0.539		1
06969	Tin	7440-31-5	2.99	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,520		0.405	1.07		1
10146	Zirconium	7440-67-7	3.65	J	0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.231		0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.96		0.0862	0.431		2
06126	Barium	7440-39-3	184		0.116	0.431		2
06127	Beryllium	7440-41-7	0.733		0.0172	0.108		2

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Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297559
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-018- SDG#: DE160-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.512		0.0431	0.108		2
06131	Chromium	7440-47-3	37.3		0.129	0.431		2
06132	Cobalt	7440-48-4	14.7		0.0215	0.108		2
06133	Copper	7440-50-8	20.9		0.0711	0.431		2
06135	Lead	7439-92-1	21.8		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.610		0.0539	0.108		2
06139	Nickel	7440-02-0	26.5		0.108	0.431		2
06141	Selenium	7782-49-2	0.225	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0631	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.405		0.0323	0.108		2
06148	Vanadium	7440-62-2	68.6		0.0237	0.108		2
06149	Zinc	7440-66-6	116		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.257		0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.97		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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-018- SDG#: DE160-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 14:36	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 04:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 08:47	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 10:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 02:00	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 10:59	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 22:49	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 19:55	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 20:09	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 21:29	Sarah M Snyder	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/05/2011 02:36	Heather E Williams	50
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 00:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 01:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/03/2011 03:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011 05:18	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297559
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-018- SDG#: DE160-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:48	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 03:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203A	06/01/2011 03:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/07/2011 17:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 22:20	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 08:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	190	U	190	380		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Chrysene	218-01-9	38	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	55	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	J	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	2.2		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	9.9		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	14		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	16		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	13		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	7.8		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	11	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.9	21		1
10138	Dibenz(a,h)anthracene	53-70-3	2.2		0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	21		0.76	1.9		1
10138	Fluorene	86-73-7	1.3	J	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.9		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.80	J	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.76	1.9		1
10138	Naphthalene	91-20-3	1.6	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	9.6		0.76	1.9		1
10138	Pyrene	129-00-0	18		0.76	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	3.5	U	3.5	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	5.3	U	5.3	5.3		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	760		87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-D and 2,4-DB.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1

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Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	0.91	U	0.91	3.9		1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39		1
01363	p,p-DDE	72-55-9	0.88		0.075	0.39		1
01363	p,p-DDT	50-29-3	1.5		0.075	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39		1
01363	Endrin	72-20-8	0.075	U	0.075	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.099	U	0.099	0.39		1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39		1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.30	U	0.30	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	5.6		0.38	1.9		1
10225	PCB-1260	11096-82-5	3.7		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	2.5		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	17		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	34		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.63	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,700		5.69	22.6		1
07914	Boron	7440-42-8	15.4		1.01	5.66		1
01650	Calcium	7440-70-2	14,600		6.94	22.6		1
01654	Iron	7439-89-6	35,300		26.6	113		5
01656	Lithium	7439-93-2	26.3		0.25	2.3		1
01657	Magnesium	7439-95-4	7,790		2.87	11.3		1
06958	Manganese	7439-96-5	477		0.0883	0.566		1
10145	Phosphorus	7723-14-0	818		0.634	11.3		1
01662	Potassium	7440-09-7	8,210		20.4	56.6		1
01667	Sodium	7440-23-5	103	J	42.2	113		1
07968	Strontium	7440-24-6	44.3		0.0702	0.566		1
06969	Tin	7440-31-5	2.96	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,480		0.430	1.13		1
10146	Zirconium	7440-67-7	2.59	J	0.950	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.54		0.0888	0.444		2
06126	Barium	7440-39-3	154		0.120	0.444		2
06127	Beryllium	7440-41-7	0.703		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.537		0.0444	0.111		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	36.8	0.133	0.444		2
06132	Cobalt	7440-48-4	12.7	0.0222	0.111		2
06133	Copper	7440-50-8	23.1	0.0732	0.444		2
06135	Lead	7439-92-1	16.5	0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.751	0.0555	0.111		2
06139	Nickel	7440-02-0	26.1	0.111	0.444		2
06141	Selenium	7782-49-2	0.287 J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0583 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.449	0.0333	0.111		2
06148	Vanadium	7440-62-2	69.3	0.0244	0.111		2
06149	Zinc	7440-66-6	101	0.621	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	22.5	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.75 J	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.81	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/10/2011 15:11	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 05:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 09:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 11:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 02:19	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 11:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 21:59	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 21:47	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/04/2011 21:08	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 01:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 01:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 10:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011 05:21	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:23	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297560
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-186- SDG#: DE160-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 04:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203A	06/01/2011 04:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/07/2011 17:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	05/31/2011 22:26	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 08:56	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401A	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297561
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-187- SDG#: DE160-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	49	J	21	210		1
04688	Aniline	62-53-3	210	U	210	640		1
04688	Anthracene	120-12-7	150	J	21	210		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzo(a)anthracene	56-55-3	2,900		21	210		1
04688	Benzo(a)pyrene	50-32-8	3,100		21	210		1
04688	Benzo(b)fluoranthene	205-99-2	3,400		21	210		1
04688	Benzo(g,h,i)perylene	191-24-2	2,200		21	210		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		21	210		1
04688	Benzoic acid	65-85-0	210	U	210	640		1
04688	Benzyl alcohol	100-51-6	210	U	210	640		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Butylbenzylphthalate	85-68-7	21	U	21	210		1
04688	Di-n-butylphthalate	84-74-2	21	U	21	210		1
04688	Carbazole	86-74-8	130	J	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	85	U	85	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Chrysene	218-01-9	3,000		21	210		1
04688	Dibenz(a,h)anthracene	53-70-3	590		21	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	Diethylphthalate	84-66-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	Dimethylphthalate	131-11-3	21	U	21	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	640		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	Fluoranthene	206-44-0	2,600		21	210		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	85	U	85	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	640		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297561
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-187- SDG#: DE160-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	85	U	85	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	640		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	21	U	21	210		1
04688	Pentachlorophenol	87-86-5	210	U	210	640		1
04688	Phenanthrene	85-01-8	400		21	210		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	Pyrene	129-00-0	2,900		21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	2.1	U	2.1	11		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	150		38	110		5
10138	Fluorene	86-73-7	7.3	J	4.3	11		5
10138	1-Methylnaphthalene	90-12-0	4.3	U	4.3	11		5
10138	2-Methylnaphthalene	91-57-6	5.9	J	4.3	11		5
10138	Naphthalene	91-20-3	4.3	U	4.3	11		5
10138	N-Nitrosodimethylamine	62-75-9	4.3	U	4.3	11		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.6		1
10401	Dalapon	75-99-0	5.6	U	5.6	11		1
10401	2,4-DB	94-82-6	5.7	U	5.7	5.7		1
10401	Dicamba	1918-00-9	0.51	U	0.51	1.5		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.1		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.2		1
10401	MCPA	94-74-6	97	U	97	320		1
10401	MCPP (Mecoprop)	93-65-2	96	U	96	320		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.22		1
10401	2,4,5-TP	93-72-1	0.096	U	0.096	0.22		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297561
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-187- SDG#: DE160-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.084	U	0.084	0.21		1
01363	Alpha BHC	319-84-6	0.043	U	0.043	0.21		1
01363	Beta BHC	319-85-7	0.076	U	0.076	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.052	U	0.052	0.21		1
01363	Chlordane	57-74-9	4.3		1.0	4.3		1
01363	p,p-DDD	72-54-8	0.084	U	0.084	0.43		1
01363	p,p-DDE	72-55-9	1.2	U	1.2	1.2		1
01363	p,p-DDT	50-29-3	4.1		0.42	2.2		5
01363	Delta BHC	319-86-8	0.27		0.046	0.21		1
01363	Dieldrin	60-57-1	2.0		0.084	0.43		1
01363	Endosulfan I	959-98-8	0.056	U	0.056	0.21		1
01363	Endosulfan II	33213-65-9	1.5	U	1.5	1.5		1
01363	Endosulfan Sulfate	1031-07-8	0.71	U	0.71	0.71		1
01363	Endrin	72-20-8	0.084	U	0.084	0.43		1
01363	Endrin Aldehyde	7421-93-4	0.40	U	0.40	0.43		1
01363	Endrin Ketone	53494-70-5	0.084	U	0.084	0.43		1
01363	Heptachlor	76-44-8	0.076	U	0.076	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.44	U	0.44	0.44		1
01363	Methoxychlor	72-43-5	2.2	U	2.2	2.2		1
01363	Mirex	2385-85-5	0.68	U	0.68	0.68		1
01363	Toxaphene	8001-35-2	2.8	U	2.8	8.4		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.2		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.2		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.3	4.2		1
10225	PCB-1016	12674-11-2	0.42	U	0.42	2.2		1
10225	PCB-1221	11104-28-2	0.42	U	0.42	2.2		1
10225	PCB-1232	11141-16-5	0.42	U	0.42	2.2		1
10225	PCB-1242	53469-21-9	0.42	U	0.42	2.2		1
10225	PCB-1248	12672-29-6	0.42	U	0.42	2.2		1
10225	PCB-1254	11097-69-1	4.8		0.42	2.2		1
10225	PCB-1260	11096-82-5	2.3		0.50	2.2		1
10225	PCB-1262	37324-23-5	0.42	U	0.42	2.2		1
10225	PCB-1268	11100-14-4	0.42	U	0.42	2.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297561
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-187- SDG#: DE160-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,400		6.35	25.3		1
07914	Boron	7440-42-8	16.7		1.12	6.31		1
01650	Calcium	7440-70-2	8,690		7.74	25.3		1
01654	Iron	7439-89-6	30,100		5.95	25.3		1
01656	Lithium	7439-93-2	24.5		0.28	2.5		1
01657	Magnesium	7439-95-4	7,400		3.21	12.6		1
06958	Manganese	7439-96-5	499		0.0985	0.631		1
10145	Phosphorus	7723-14-0	814		0.707	12.6		1
01662	Potassium	7440-09-7	8,230		22.7	63.1		1
01667	Sodium	7440-23-5	123	J	47.1	126		1
07968	Strontium	7440-24-6	36.0		0.0783	0.631		1
06969	Tin	7440-31-5	3.32	J	1.26	12.6		1
06970	Titanium	7440-32-6	1,510		0.480	1.26		1
10146	Zirconium	7440-67-7	3.18	J	1.06	6.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.243	J	0.0743	0.248		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.81		0.0991	0.495		2
06126	Barium	7440-39-3	173		0.134	0.495		2
06127	Beryllium	7440-41-7	0.726		0.0198	0.124		2
06128	Cadmium	7440-43-9	0.980		0.0495	0.124		2
06131	Chromium	7440-47-3	37.7		0.149	0.495		2
06132	Cobalt	7440-48-4	13.9		0.0248	0.124		2
06133	Copper	7440-50-8	25.5		0.0817	0.495		2
06135	Lead	7439-92-1	20.3		0.0129	0.248		2
06138	Molybdenum	7439-98-7	0.820		0.0619	0.124		2
06139	Nickel	7440-02-0	28.0		0.124	0.495		2
06141	Selenium	7782-49-2	0.324	J	0.0495	0.495		2
06142	Silver	7440-22-4	0.0616	J	0.0149	0.124		2
06145	Thallium	7440-28-0	0.481		0.0372	0.124		2
06148	Vanadium	7440-62-2	70.5		0.0272	0.124		2
06149	Zinc	7440-66-6	128		0.693	3.72		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084	J	0.0036	0.126		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		1.0	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.5	U	11.5	38.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	U	0.26	1.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297561
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-187- SDG#: DE160-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	21.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	05:32	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011	09:51	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	11:54	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011	22:13	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011	22:27	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011	22:06	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011	03:27	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297561
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-187- SDG#: DE160-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 05:55	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203A	06/01/2011 04:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203A	06/07/2011 18:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	05/31/2011 22:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203A	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203A	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297562
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-188- SDG#: DE160-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	360	J	19	380		1
04688	Fluoranthene	206-44-0	22	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297562
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-188- SDG#: DE160-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	230		19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	25	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.48	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.6		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.7	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	3.1		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.81	J	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.5	J	0.77	1.9		1
10138	Naphthalene	91-20-3	2.0		0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Phenanthrene	85-01-8	3.2		0.77	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.2	U	2.2	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	2.3	U	2.3	2.3		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9		1
10401	MCPA	94-74-6	830		87	290		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19		1
10401	2,4,5-TP	93-72-1	0.25		0.086	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

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SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297562
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-188- SDG#: DE160-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-D and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19		1
01363	Chlordane	57-74-9	1.9	J	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.64		0.076	0.39		1
01363	p,p-DDT	50-29-3	0.60		0.076	0.39		1
01363	Delta BHC	319-86-8	0.041	U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.22	J	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Endosulfan II							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	4.1		0.38	2.0		1
10225	PCB-1260	11096-82-5	1.8	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,700		5.57	22.1		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297562
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-188- SDG#: DE160-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	10.9		0.985	5.53		1
01650	Calcium	7440-70-2	6,500		6.78	22.1		1
01654	Iron	7439-89-6	30,700		26.1	111		5
01656	Lithium	7439-93-2	25.0		0.24	2.2		1
01657	Magnesium	7439-95-4	6,710		2.81	11.1		1
06958	Manganese	7439-96-5	460		0.0863	0.553		1
10145	Phosphorus	7723-14-0	580		0.620	11.1		1
01662	Potassium	7440-09-7	6,840		19.9	55.3		1
01667	Sodium	7440-23-5	82.0	J	41.3	111		1
07968	Strontium	7440-24-6	30.6		0.0686	0.553		1
06969	Tin	7440-31-5	3.06	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,550		0.429	1.13		1
10146	Zirconium	7440-67-7	3.35	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.79		0.0911	0.456		2
06126	Barium	7440-39-3	151		0.123	0.456		2
06127	Beryllium	7440-41-7	0.773		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.360		0.0456	0.114		2
06131	Chromium	7440-47-3	31.6		0.137	0.456		2
06132	Cobalt	7440-48-4	11.6		0.0228	0.114		2
06133	Copper	7440-50-8	19.4		0.0752	0.456		2
06135	Lead	7439-92-1	14.1		0.0118	0.228		2
06138	Molybdenum	7439-98-7	0.673		0.0570	0.114		2
06139	Nickel	7440-02-0	22.9		0.114	0.456		2
06141	Selenium	7782-49-2	0.247	J	0.0456	0.456		2
06142	Silver	7440-22-4	0.0410	J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.438		0.0342	0.114		2
06148	Vanadium	7440-62-2	60.7		0.0251	0.114		2
06149	Zinc	7440-66-6	86.1		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Analysis Report

Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297562
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

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-188- SDG#: DE160-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.68	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	05:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011	10:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	16:50	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011	22:55	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011	22:24	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011	05:25	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011	03:32	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011	05:58	Tara L Snyder	1

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Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
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SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297562
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-188- SDG#: DE160-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 04:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 18:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	05/31/2011 23:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297563
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-189- SDG#: DE160-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297563
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-189- SDG#: DE160-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.41	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	2.2		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.99	J	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	1.7	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	3.1		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.78	2.0		1
10138	Naphthalene	91-20-3	1.6	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	2.4		0.78	2.0		1
10138	Pyrene	129-00-0	2.2		0.78	2.0		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	3.1	U	3.1	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1

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Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297563
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-189- SDG#: DE160-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-D and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	1.5	J	0.94	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	1.4		0.077	0.40		1
01363	p,p-DDT	50-29-3	1.4		0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.9	U	5.9	19		5
10225	Aroclor 5442	12642-23-8	5.9	U	5.9	19		5
10225	Aroclor 5460	11126-42-4	5.9	U	5.9	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	10		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	10		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	10		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	10		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	10		5

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Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297563
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-189- SDG#: DE160-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	7.0	J	1.9	10		5
10225	PCB-1260	11096-82-5	3.6	J	2.3	10		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	10		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	10		5
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,100		5.74	22.8		1
07914	Boron	7440-42-8	16.0		1.02	5.70		1
01650	Calcium	7440-70-2	18,700		6.99	22.8		1
01654	Iron	7439-89-6	35,200		26.9	114		5
01656	Lithium	7439-93-2	26.9		0.25	2.3		1
01657	Magnesium	7439-95-4	8,080		2.90	11.4		1
06958	Manganese	7439-96-5	464		0.0890	0.570		1
10145	Phosphorus	7723-14-0	722		0.639	11.4		1
01662	Potassium	7440-09-7	8,450		20.5	57.0		1
01667	Sodium	7440-23-5	94.9	J	42.6	114		1
07968	Strontium	7440-24-6	50.0		0.0707	0.570		1
06969	Tin	7440-31-5	2.91	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,540		0.429	1.13		1
10146	Zirconium	7440-67-7	2.88	J	0.958	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.204	J	0.0705	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.13		0.0940	0.470		2
06126	Barium	7440-39-3	162		0.127	0.470		2
06127	Beryllium	7440-41-7	0.781		0.0188	0.118		2
06128	Cadmium	7440-43-9	0.442		0.0470	0.118		2
06131	Chromium	7440-47-3	41.2		0.141	0.470		2
06132	Cobalt	7440-48-4	13.7		0.0235	0.118		2
06133	Copper	7440-50-8	24.2		0.0776	0.470		2
06135	Lead	7439-92-1	18.4		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.756		0.0588	0.118		2
06139	Nickel	7440-02-0	27.5		0.118	0.470		2
06141	Selenium	7782-49-2	0.360	J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0572	J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.469		0.0353	0.118		2
06148	Vanadium	7440-62-2	78.2		0.0259	0.118		2
06149	Zinc	7440-66-6	128		0.658	3.53		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.94	1.2		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297563
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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-189- SDG#: DE160-12

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.6	U	10.6	35.3		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	1.2		0.24	1.2		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	7.91		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	14.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	06:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011	10:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	17:18	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011	23:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011	22:43	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	03:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	03:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	03:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011	05:28	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	03:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	03:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	03:36	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297563
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-189- SDG#: DE160-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:36	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:36	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 05:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 20:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 23:17	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	44.1		18.2	36.4		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.70	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.3		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.0		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.9		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	12		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	4.3		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	4.8		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.1		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.96	J	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.5	J	0.73	1.8		1
10138	Naphthalene	91-20-3	1.6	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	2.8		0.73	1.8		1
10138	Pyrene	129-00-0	6.2		0.73	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	68	J	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	4.5	U	4.5	4.5		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	910		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.33	J	0.072	0.37		1
01363	p,p-DDT	50-29-3	1.6		0.072	0.37		1
01363	Delta BHC	319-86-8	0.056	J	0.039	0.18		1
01363	Dieldrin	60-57-1	0.43		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.39	U	0.39	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.056	U	0.056	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	10	J	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	20		1.8	9.3		5
10225	PCB-1260	11096-82-5	11		2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.98	J	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	4.4		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	13		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	34		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,700		5.44	21.6		1
07914	Boron	7440-42-8	12.4		0.962	5.40		1
01650	Calcium	7440-70-2	13,000		6.63	21.6		1
01654	Iron	7439-89-6	25,400		5.09	21.6		1
01656	Lithium	7439-93-2	24.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,830		2.75	10.8		1
06958	Manganese	7439-96-5	359		0.0843	0.540		1
10145	Phosphorus	7723-14-0	528		0.605	10.8		1
01662	Potassium	7440-09-7	5,560		19.5	54.0		1
01667	Sodium	7440-23-5	86.1	J	40.3	108		1
07968	Strontium	7440-24-6	39.9		0.0670	0.540		1
06969	Tin	7440-31-5	2.93	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,260		0.407	1.07		1
10146	Zirconium	7440-67-7	1.78	J	0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.250		0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.81		0.0848	0.424		2
06126	Barium	7440-39-3	135		0.114	0.424		2
06127	Beryllium	7440-41-7	0.606		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.693		0.0424	0.106		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	31.7		0.127	0.424		2
06132	Cobalt	7440-48-4	11.1		0.0212	0.106		2
06133	Copper	7440-50-8	23.8		0.0700	0.424		2
06135	Lead	7439-92-1	17.6		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.743		0.0530	0.106		2
06139	Nickel	7440-02-0	23.5		0.106	0.424		2
06141	Selenium	7782-49-2	0.327	J	0.0424	0.424		2
06142	Silver	7440-22-4	1.29		0.0127	0.106		2
06145	Thallium	7440-28-0	0.407		0.0318	0.106		2
06148	Vanadium	7440-62-2	57.2		0.0233	0.106		2
06149	Zinc	7440-66-6	101		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0376	J	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.2		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 15:11	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 06:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 11:28	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 12:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 02:29	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 17:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 23:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 23:01	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/04/2011 21:33	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 01:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 02:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 11:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297564
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-191- SDG#: DE160-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:43	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 05:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203B	06/01/2011 05:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 20:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 23:29	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 08:57	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297565
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-192- SDG#: DE160-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	205	U	205	410		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

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Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297565
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-192- SDG#: DE160-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.1		1
10138	Acenaphthylene	208-96-8	0.46	J	0.41	2.1		1
10138	Anthracene	120-12-7	1.1	J	0.41	2.1		1
10138	Benzo(a)anthracene	56-55-3	4.2		0.82	2.1		1
10138	Benzo(a)pyrene	50-32-8	6.6		0.82	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	7.6		0.82	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	5.5		0.82	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	2.1		0.82	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	6.8		0.41	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.82	2.1		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	7.4		0.82	2.1		1
10138	Fluorene	86-73-7	2.0	J	0.82	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1		0.82	2.1		1
10138	1-Methylnaphthalene	90-12-0	1.6	J	0.82	2.1		1
10138	2-Methylnaphthalene	91-57-6	2.3		0.82	2.1		1
10138	Naphthalene	91-20-3	2.8		0.82	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	4.9		0.82	2.1		1
10138	Pyrene	129-00-0	8.1		0.82	2.1		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	74	U	74	150	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	49	U	49	150	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297565
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-192- SDG#: DE160-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	98	U	98	300	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	98	U	98	300	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	49	U	49	150	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	49	U	49	150	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	49	U	49	150	10000000	1
10132	HMX	2691-41-0	120	U	120	370	10000000	1
10132	Nitrobenzene	98-95-3	49	U	49	150	10000000	1
10132	Nitroglycerin	55-63-0	980	U	980	3,000	10000000	1
10132	2-Nitrotoluene	88-72-2	98	U	98	150	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	150	10000000	1
10132	4-Nitrotoluene	99-99-0	98	U	98	150	10000000	1
10132	PETN	78-11-5	980	U	980	3,000	10000000	1
10132	RDX	121-82-4	62	U	62	150	10000000	1
10132	Tetryl	479-45-8	75	U	75	150	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	49	U	49	150	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	49	U	49	150	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	7.9	U	7.9	7.9		1
10401	Dalapon	75-99-0	5.4	U	5.4	11		1
10401	2,4-DB	94-82-6	110		3.8	10		5
10401	Dicamba	1918-00-9	0.55	J	0.49	1.5		1
10401	Dinoseb	88-85-7	0.98	U	0.98	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	J	0.98	2.1		1
10401	MCPA	94-74-6	93	U	93	310		1
10401	MCPP (Mecoprop)	93-65-2	92	U	92	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.32		0.092	0.21		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	730	U	730	1,800		1

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-192- SDG#: DE160-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.081	U	0.081	0.20		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.20		1
01363	Beta BHC	319-85-7	0.074	U	0.074	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.080	J	0.042	0.20		1
01363	Chlordane	57-74-9	3.4	J	0.98	4.2		1
01363	p,p-DDD	72-54-8	0.081	U	0.081	0.42		1
01363	p,p-DDE	72-55-9	0.73		0.081	0.42		1
01363	p,p-DDT	50-29-3	0.53		0.081	0.42		1
01363	Delta BHC	319-86-8	0.044	U	0.044	0.20		1
01363	Dieldrin	60-57-1	0.081	U	0.081	0.42		1
01363	Endosulfan I	959-98-8	0.093	U	0.093	0.20		1
01363	Endosulfan II	33213-65-9	0.081	U	0.081	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.081	U	0.081	0.42		1
01363	Endrin	72-20-8	0.081	U	0.081	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.42		1
01363	Endrin Ketone	53494-70-5	0.081	U	0.081	0.42		1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.20		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.0		1
01363	Mirex	2385-85-5	0.081	U	0.081	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.1		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1		1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1		1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	1.8	J	0.41	2.1		1
10225	PCB-1260	11096-82-5	1.1	J	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.98	U	0.98	3.0		2

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Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297565
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

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14420 Albemarle Point Place
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-192- SDG#: DE160-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	8.4		0.98	3.0		2
10199	EFH (C21-C30)	n.a.	23		0.98	3.0		2
10199	EFH (C30 - C40)	n.a.	78		0.98	3.0		2
10199	EFH (C8-C11)	n.a.	0.98	U	0.98	3.0		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	620		1
10501	Isopropanol	67-63-0	120	U	120	620		1
10501	Methanol	67-56-1	120	U	120	620		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	12		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	12		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.95	23.7		1
07914	Boron	7440-42-8	13.7		1.05	5.91		1
01650	Calcium	7440-70-2	6,570		7.25	23.7		1
01654	Iron	7439-89-6	26,800		5.57	23.7		1
01656	Lithium	7439-93-2	20.1		0.26	2.4		1
01657	Magnesium	7439-95-4	5,650		3.00	11.8		1
06958	Manganese	7439-96-5	441		0.0923	0.591		1
10145	Phosphorus	7723-14-0	627		0.662	11.8		1
01662	Potassium	7440-09-7	7,080		21.3	59.1		1
01667	Sodium	7440-23-5	88.3	J	44.1	118		1
07968	Strontium	7440-24-6	33.8		0.0733	0.591		1
06969	Tin	7440-31-5	3.07	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,350		0.454	1.19		1
10146	Zirconium	7440-67-7	2.88	J	0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.248		0.0710	0.237		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.31		0.0946	0.473		2
06126	Barium	7440-39-3	149		0.128	0.473		2
06127	Beryllium	7440-41-7	0.660		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.489		0.0473	0.118		2

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SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297565
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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-192- SDG#: DE160-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	29.9	0.142	0.473		2
06132	Cobalt	7440-48-4	11.5	0.0237	0.118		2
06133	Copper	7440-50-8	19.4	0.0781	0.473		2
06135	Lead	7439-92-1	11.6	0.0123	0.237		2
06138	Molybdenum	7439-98-7	0.813	0.0591	0.118		2
06139	Nickel	7440-02-0	21.2	0.118	0.473		2
06141	Selenium	7782-49-2	0.230 J	0.0473	0.473		2
06142	Silver	7440-22-4	0.0815 J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.428	0.0355	0.118		2
06148	Vanadium	7440-62-2	56.7	0.0260	0.118		2
06149	Zinc	7440-66-6	89.4	0.662	3.55		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2 J	0.98	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	56.1	4.9	9.2		5
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1 U	11.1	36.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78 J	0.25	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.23 J	0.21	0.59		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297565
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-192- SDG#: DE160-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/10/2011 15:28	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 07:11	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 12:00	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 13:02	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 02:39	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 18:13	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/09/2011 12:36	John W Perkins	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/06/2011 23:51	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/08/2011 23:20	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/04/2011 21:58	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 01:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 02:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 11:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:52	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297565
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-192- SDG#: DE160-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 06:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203B	06/02/2011 09:18	Ashley M Adams	5
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 20:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	05/31/2011 23:59	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 09:01	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297566
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-193- SDG#: DE160-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297566
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-193- SDG#: DE160-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	4.1	J	3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	J	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.1		5
10138	Chrysene	218-01-9	3.5	J	1.8	9.1		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	J	33	98		5
10138	Fluoranthene	206-44-0	4.4	J	3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Phenanthrene	85-01-8	3.6	U	3.6	9.1		5
10138	Pyrene	129-00-0	4.8	J	3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.8	J	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	7.1	U	7.1	7.1		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	83	U	83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1

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Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297566
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-193- SDG#: DE160-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.65		0.072	0.37		1
01363	p,p-DDT	50-29-3	2.2		0.072	0.37		1
01363	Delta BHC	319-86-8	0.060	J	0.039	0.18		1
01363	Dieldrin	60-57-1	0.60		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.45	U	0.45	0.45		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.14	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Endosulfan II							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297566
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-193- SDG#: DE160-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	4.1	J	2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.33	21.2		1
07914	Boron	7440-42-8	9.35		0.942	5.29		1
01650	Calcium	7440-70-2	4,920		6.49	21.2		1
01654	Iron	7439-89-6	25,200		4.99	21.2		1
01656	Lithium	7439-93-2	24.8		0.23	2.1		1
01657	Magnesium	7439-95-4	6,920		2.69	10.6		1
06958	Manganese	7439-96-5	382		0.0826	0.529		1
10145	Phosphorus	7723-14-0	636		0.593	10.6		1
01662	Potassium	7440-09-7	5,560		19.1	52.9		1
01667	Sodium	7440-23-5	87.7	J	39.5	106		1
07968	Strontium	7440-24-6	38.3		0.0656	0.529		1
06969	Tin	7440-31-5	3.03	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,280		0.410	1.08		1
10146	Zirconium	7440-67-7	2.08	J	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.95		0.0872	0.436		2
06126	Barium	7440-39-3	126		0.118	0.436		2
06127	Beryllium	7440-41-7	0.589		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.516		0.0436	0.109		2
06131	Chromium	7440-47-3	35.1		0.131	0.436		2
06132	Cobalt	7440-48-4	10.3		0.0218	0.109		2
06133	Copper	7440-50-8	27.8		0.0720	0.436		2
06135	Lead	7439-92-1	16.7		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.838		0.0545	0.109		2
06139	Nickel	7440-02-0	37.5		0.109	0.436		2
06141	Selenium	7782-49-2	0.200	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.792		0.0131	0.109		2
06145	Thallium	7440-28-0	0.338		0.0327	0.109		2
06148	Vanadium	7440-62-2	49.3		0.0240	0.109		2
06149	Zinc	7440-66-6	88.8		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.87	1.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297566
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-193- SDG#: DE160-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	07:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011	12:33	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	18:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/07/2011	00:18	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/09/2011	00:52	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	03:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	03:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	03:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011	03:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	03:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	03:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	03:56	Tara L Snyder	1

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Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297566
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-193- SDG#: DE160-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 03:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 03:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 03:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 03:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 03:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:18	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 03:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 06:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 21:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	06/01/2011 01:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297567
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-194- SDG#: DE160-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	620		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	210	U	210	620		1
04688	Benzyl alcohol	100-51-6	210	U	210	620		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	210		1
04688	4-Chloroaniline	106-47-8	83	U	83	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	210		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	620		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	49	J	21	410		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	83	U	83	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	620		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	41	U	41	210		1
04688	4-Methylphenol	106-44-5	41	U	41	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	41	U	41	210		1
04688	4-Nitroaniline	100-01-6	83	U	83	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	620		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	210	U	210	620		1

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Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297567
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-194- SDG#: DE160-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	210		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.84	U	0.84	2.1		1
10138	Acenaphthylene	208-96-8	0.42	U	0.42	2.1		1
10138	Anthracene	120-12-7	0.87	J	0.42	2.1		1
10138	Benzo(a)anthracene	56-55-3	5.9		0.84	2.1		1
10138	Benzo(a)pyrene	50-32-8	9.8		0.84	2.1		1
10138	Benzo(b)fluoranthene	205-99-2	16		0.84	2.1		1
10138	Benzo(g,h,i)perylene	191-24-2	8.1		0.84	2.1		1
10138	Benzo(k)fluoranthene	207-08-9	5.3		0.84	2.1		1
10138	Butylbenzylphthalate	85-68-7	7.5	U	7.5	23		1
10138	Di-n-butylphthalate	84-74-2	8.6	J	7.5	23		1
10138	Chrysene	218-01-9	11		0.42	2.1		1
10138	Dibenz(a,h)anthracene	53-70-3	1.6	J	0.84	2.1		1
10138	Diethylphthalate	84-66-2	7.5	U	7.5	23		1
10138	Dimethylphthalate	131-11-3	7.5	U	7.5	23		1
10138	Fluoranthene	206-44-0	16		0.84	2.1		1
10138	Fluorene	86-73-7	1.5	J	0.84	2.1		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.0		0.84	2.1		1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.84	2.1		1
10138	2-Methylnaphthalene	91-57-6	1.8	J	0.84	2.1		1
10138	Naphthalene	91-20-3	2.5		0.84	2.1		1
10138	N-Nitrosodimethylamine	62-75-9	0.84	U	0.84	2.1		1
10138	Di-n-octylphthalate	117-84-0	7.5	U	7.5	23		1
10138	Phenanthrene	85-01-8	7.6		0.84	2.1		1
10138	Pyrene	129-00-0	18		0.84	2.1		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.3	J	1.5	4.5		1
10401	Dalapon	75-99-0	5.5	U	5.5	11		1
10401	2,4-DB	94-82-6	1.8	U	1.8	2.1		1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.1		1
10401	MCPA	94-74-6	95	U	95	310		1
10401	MCPP (Mecoprop)	93-65-2	94	U	94	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.094	U	0.094	0.21		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297567
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-194- SDG#: DE160-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.083	U	0.083	0.21		1
01363	Alpha BHC	319-84-6	0.043	U	0.043	0.21		1
01363	Beta BHC	319-85-7	0.075	U	0.075	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.043	U	0.043	0.21		1
01363	Chlordane	57-74-9	3.8	J	1.0	4.3		1
01363	p,p-DDD	72-54-8	0.083	U	0.083	0.43		1
01363	p,p-DDE	72-55-9	1.0		0.083	0.43		1
01363	p,p-DDT	50-29-3	0.60		0.083	0.43		1
01363	Delta BHC	319-86-8	0.055	U	0.055	0.21		1
01363	Dieldrin	60-57-1	0.083	U	0.083	0.43		1
01363	Endosulfan I	959-98-8	0.055	U	0.055	0.21		1
01363	Endosulfan II	33213-65-9	0.095	U	0.095	0.43		1
01363	Endosulfan Sulfate	1031-07-8	0.083	U	0.083	0.43		1
01363	Endrin	72-20-8	0.083	U	0.083	0.43		1
01363	Endrin Aldehyde	7421-93-4	0.083	U	0.083	0.43		1
01363	Endrin Ketone	53494-70-5	0.083	U	0.083	0.43		1
01363	Heptachlor	76-44-8	0.075	U	0.075	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.045	U	0.045	0.21		1
01363	Methoxychlor	72-43-5	0.43	U	0.43	2.1		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.43		1
01363	Toxaphene	8001-35-2	2.8	U	2.8	8.3		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Endosulfan II							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.3	U	1.3	4.1		1
10225	Aroclor 5442	12642-23-8	1.3	U	1.3	4.1		1
10225	Aroclor 5460	11126-42-4	1.3	U	1.3	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1		1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1		1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	1.1	J	0.41	2.1		1
10225	PCB-1260	11096-82-5	0.66	J	0.49	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1

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Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297567
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-194- SDG#: DE160-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,000		6.25	24.8		1
07914	Boron	7440-42-8	13.8		1.11	6.21		1
01650	Calcium	7440-70-2	7,400		7.62	24.8		1
01654	Iron	7439-89-6	28,800		5.85	24.8		1
01656	Lithium	7439-93-2	21.4		0.27	2.5		1
01657	Magnesium	7439-95-4	6,630		3.16	12.4		1
06958	Manganese	7439-96-5	492		0.0969	0.621		1
10145	Phosphorus	7723-14-0	711		0.696	12.4		1
01662	Potassium	7440-09-7	7,720		22.4	62.1		1
01667	Sodium	7440-23-5	74.0	J	46.3	124		1
07968	Strontium	7440-24-6	35.6		0.0770	0.621		1
06969	Tin	7440-31-5	3.19	J	1.24	12.4		1
06970	Titanium	7440-32-6	1,440		0.472	1.24		1
10146	Zirconium	7440-67-7	3.93	J	1.04	6.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	41.4		0.0731	0.244		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.50		0.0975	0.487		2
06126	Barium	7440-39-3	164		0.132	0.487		2
06127	Beryllium	7440-41-7	0.693		0.0195	0.122		2
06128	Cadmium	7440-43-9	0.563		0.0487	0.122		2
06131	Chromium	7440-47-3	33.6		0.146	0.487		2
06132	Cobalt	7440-48-4	11.9		0.0244	0.122		2
06133	Copper	7440-50-8	23.0		0.0804	0.487		2
06135	Lead	7439-92-1	122		0.0317	0.609		5
06138	Molybdenum	7439-98-7	0.788		0.0609	0.122		2
06139	Nickel	7440-02-0	23.6		0.122	0.487		2
06141	Selenium	7782-49-2	0.302	J	0.0487	0.487		2
06142	Silver	7440-22-4	0.0541	J	0.0146	0.122		2
06145	Thallium	7440-28-0	0.451		0.0365	0.122		2
06148	Vanadium	7440-62-2	61.8		0.0268	0.122		2
06149	Zinc	7440-66-6	96.7		0.682	3.65		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0035	U	0.0035	0.123		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		1.0	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.3	U	11.3	37.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.25	1.3		1

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Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297567
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-194- SDG#: DE160-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.19	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	20.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	08:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011	13:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	19:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/07/2011	00:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/09/2011	01:11	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011	04:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011	06:21	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297567
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-194- SDG#: DE160-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 04:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 21:00	David K Beck	5
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 06:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 21:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11147243201A	06/01/2011 02:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297568
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-195- SDG#: DE160-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	210	U	210	630		1
04688	Benzidine	92-87-5	1,500	U	1,500	4,200		1
04688	Benzoic acid	65-85-0	210	U	210	630		1
04688	Benzyl alcohol	100-51-6	210	U	210	630		1
04688	4-Bromophenyl-phenylether	101-55-3	21	U	21	210		1
04688	Butylbenzylphthalate	85-68-7	21	U	21	210		1
04688	Di-n-butylphthalate	84-74-2	21	U	21	210		1
04688	Carbazole	86-74-8	21	U	21	210		1
04688	4-Chloro-3-methylphenol	59-50-7	42	U	42	210		1
04688	4-Chloroaniline	106-47-8	84	U	84	210		1
04688	bis(2-Chloroethoxy)methane	111-91-1	21	U	21	210		1
04688	bis(2-Chloroethyl)ether	111-44-4	21	U	21	210		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	21	U	21	210		1
04688	2-Chloronaphthalene	91-58-7	21	U	21	210		1
04688	2-Chlorophenol	95-57-8	21	U	21	210		1
04688	4-Chlorophenyl-phenylether	7005-72-3	42	U	42	210		1
04688	Dibenzofuran	132-64-9	21	U	21	210		1
04688	1,2-Dichlorobenzene	95-50-1	21	U	21	210		1
04688	1,3-Dichlorobenzene	541-73-1	21	U	21	210		1
04688	1,4-Dichlorobenzene	106-46-7	21	U	21	210		1
04688	3,3'-Dichlorobenzidine	91-94-1	130	U	130	420		1
04688	2,4-Dichlorophenol	120-83-2	21	U	21	210		1
04688	Diethylphthalate	84-66-2	21	U	21	210		1
04688	2,4-Dimethylphenol	105-67-9	42	U	42	210		1
04688	3,5-Dimethylphenol	108-68-9	42	U	42	210		1
04688	Dimethylphthalate	131-11-3	21	U	21	210		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	210	U	210	630		1
04688	2,4-Dinitrophenol	51-28-5	420	U	420	1,300		1
04688	2,4-Dinitrotoluene	121-14-2	42	U	42	210		1
04688	2,6-Dinitrotoluene	606-20-2	21	U	21	210		1
04688	1,2-Diphenylhydrazine	122-66-7	21	U	21	210		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	58	J	21	420		1
04688	Hexachlorobenzene	118-74-1	21	U	21	210		1
04688	Hexachlorobutadiene	87-68-3	84	U	84	210		1
04688	Hexachlorocyclopentadiene	77-47-4	210	U	210	630		1
04688	Hexachloroethane	67-72-1	21	U	21	210		1
04688	Isophorone	78-59-1	21	U	21	210		1
04688	2-Methylphenol	95-48-7	42	U	42	210		1
04688	4-Methylphenol	106-44-5	42	U	42	210		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	21	U	21	210		1
04688	3-Nitroaniline	99-09-2	42	U	42	210		1
04688	4-Nitroaniline	100-01-6	84	U	84	210		1
04688	Nitrobenzene	98-95-3	21	U	21	210		1
04688	2-Nitrophenol	88-75-5	21	U	21	210		1
04688	4-Nitrophenol	100-02-7	210	U	210	630		1
04688	N-Nitroso-di-n-propylamine	621-64-7	21	U	21	210		1
04688	N-Nitrosodiphenylamine	86-30-6	21	U	21	210		1

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Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297568
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-195- SDG#: DE160-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	21	U	21	210		1
04688	Pentachlorophenol	87-86-5	210	U	210	630		1
04688	Phenol	108-95-2	21	U	21	210		1
04688	1,2,4-Trichlorobenzene	120-82-1	21	U	21	210		1
04688	2,4,5-Trichlorophenol	95-95-4	42	U	42	210		1
04688	2,4,6-Trichlorophenol	88-06-2	42	U	42	210		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.2	U	4.2	10		5
10138	Acenaphthylene	208-96-8	2.1	U	2.1	10		5
10138	Anthracene	120-12-7	2.1	U	2.1	10		5
10138	Benzo(a)anthracene	56-55-3	4.4	J	4.2	10		5
10138	Benzo(a)pyrene	50-32-8	5.3	J	4.2	10		5
10138	Benzo(b)fluoranthene	205-99-2	10	J	4.2	10		5
10138	Benzo(g,h,i)perylene	191-24-2	12		4.2	10		5
10138	Benzo(k)fluoranthene	207-08-9	4.2	U	4.2	10		5
10138	Chrysene	218-01-9	7.3	J	2.1	10		5
10138	Dibenz(a,h)anthracene	53-70-3	4.2	U	4.2	10		5
10138	Fluoranthene	206-44-0	11		4.2	10		5
10138	Fluorene	86-73-7	4.2	U	4.2	10		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.4	J	4.2	10		5
10138	1-Methylnaphthalene	90-12-0	4.2	U	4.2	10		5
10138	2-Methylnaphthalene	91-57-6	4.2	U	4.2	10		5
10138	Naphthalene	91-20-3	4.2	U	4.2	10		5
10138	N-Nitrosodimethylamine	62-75-9	4.2	U	4.2	10		5
10138	Phenanthrene	85-01-8	5.0	J	4.2	10		5
10138	Pyrene	129-00-0	9.0	J	4.2	10		5
	Reporting limits were raised due to interference from the sample matrix.							
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.5		1
10401	Dalapon	75-99-0	5.5	U	5.5	11		1
10401	2,4-DB	94-82-6	2.4	U	2.4	2.4		1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.5		1
10401	Dinoseb	88-85-7	1.0	U	1.0	3.0		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	U	1.0	2.1		1
10401	MCPA	94-74-6	95	U	95	310		1
10401	MCPP (Mecoprop)	93-65-2	94	U	94	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.094	U	0.094	0.21		1

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Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297568
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-195- SDG#: DE160-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.082	U	0.082	0.21		1
01363	Alpha BHC	319-84-6	0.042	U	0.042	0.21		1
01363	Beta BHC	319-85-7	0.075	U	0.075	0.21		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.21		1
01363	Chlordane	57-74-9	5.6		1.0	4.2		1
01363	p,p-DDD	72-54-8	0.082	U	0.082	0.42		1
01363	p,p-DDE	72-55-9	0.50		0.082	0.42		1
01363	p,p-DDT	50-29-3	3.5		0.41	2.1		5
01363	Delta BHC	319-86-8	0.045	U	0.045	0.21		1
01363	Dieldrin	60-57-1	1.2		0.082	0.42		1
01363	Endosulfan I	959-98-8	0.055	U	0.055	0.21		1
01363	Endosulfan II	33213-65-9	0.97	U	0.97	0.97		1
01363	Endosulfan Sulfate	1031-07-8	0.082	U	0.082	0.42		1
01363	Endrin	72-20-8	0.082	U	0.082	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.082	U	0.082	0.42		1
01363	Endrin Ketone	53494-70-5	0.082	U	0.082	0.42		1
01363	Heptachlor	76-44-8	0.075	U	0.075	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.21		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.1		1
01363	Mirex	2385-85-5	0.082	U	0.082	0.42		1
01363	Toxaphene	8001-35-2	2.7	U	2.7	8.2		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Endosulfan II							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	6.3	U	6.3	21		5
10225	Aroclor 5442	12642-23-8	6.3	U	6.3	21		5
10225	Aroclor 5460	11126-42-4	11	J	6.3	21		5
10225	PCB-1016	12674-11-2	2.1	U	2.1	11		5
10225	PCB-1221	11104-28-2	2.1	U	2.1	11		5
10225	PCB-1232	11141-16-5	2.1	U	2.1	11		5
10225	PCB-1242	53469-21-9	2.1	U	2.1	11		5
10225	PCB-1248	12672-29-6	2.1	U	2.1	11		5
10225	PCB-1254	11097-69-1	40		2.1	11		5
10225	PCB-1260	11096-82-5	13		2.5	11		5
10225	PCB-1262	37324-23-5	2.1	U	2.1	11		5
10225	PCB-1268	11100-14-4	2.1	U	2.1	11		5

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Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297568
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-195- SDG#: DE160-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		6.20	24.7		1
07914	Boron	7440-42-8	10.1		1.10	6.17		1
01650	Calcium	7440-70-2	5,710		7.56	24.7		1
01654	Iron	7439-89-6	25,200		5.81	24.7		1
01656	Lithium	7439-93-2	25.3		0.27	2.5		1
01657	Magnesium	7439-95-4	5,570		3.13	12.3		1
06958	Manganese	7439-96-5	398		0.0962	0.617		1
10145	Phosphorus	7723-14-0	639		0.691	12.3		1
01662	Potassium	7440-09-7	5,640		22.2	61.7		1
01667	Sodium	7440-23-5	90.1	J	46.0	123		1
07968	Strontium	7440-24-6	30.1		0.0765	0.617		1
06969	Tin	7440-31-5	3.26	J	1.23	12.3		1
06970	Titanium	7440-32-6	1,200		0.460	1.21		1
10146	Zirconium	7440-67-7	1.69	J	1.04	6.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.273		0.0733	0.244		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.55		0.0977	0.488		2
06126	Barium	7440-39-3	152		0.132	0.488		2
06127	Beryllium	7440-41-7	0.718		0.0195	0.122		2
06128	Cadmium	7440-43-9	0.837		0.0488	0.122		2
06131	Chromium	7440-47-3	29.7		0.147	0.488		2
06132	Cobalt	7440-48-4	13.3		0.0244	0.122		2
06133	Copper	7440-50-8	24.1		0.0806	0.488		2
06135	Lead	7439-92-1	18.5		0.0127	0.244		2
06138	Molybdenum	7439-98-7	1.19		0.0611	0.122		2
06139	Nickel	7440-02-0	29.1		0.122	0.488		2
06141	Selenium	7782-49-2	0.236	J	0.0488	0.488		2
06142	Silver	7440-22-4	2.60		0.0147	0.122		2
06145	Thallium	7440-28-0	0.454		0.0366	0.122		2
06148	Vanadium	7440-62-2	51.3		0.0269	0.122		2
06149	Zinc	7440-66-6	112		0.684	3.66		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0415	J	0.0035	0.122		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	U	1.0	1.3		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.3	U	11.3	37.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	U	0.25	1.3		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297568
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-195- SDG#: DE160-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.16	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	20.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011	08:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011	13:37	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011	07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011	09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011	19:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/07/2011	00:59	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/07/2011	01:13	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/09/2011	01:29	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011	04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011	01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011	04:04	Tara L Snyder	1

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Analysis Report

Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297568
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-195- SDG#: DE160-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:25	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 04:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:52	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 06:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 21:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	06/01/2011 02:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-196-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297569
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:05

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--196 SDG#: DE160-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	250	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

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Sample Description: SL-196-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297569
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:05

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--196 SDG#: DE160-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.5	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	8.6		0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	9.6		0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	7.9		0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.1		0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.9	21		1
10138	Chrysene	218-01-9	11		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	18		0.77	1.9		1
10138	Fluorene	86-73-7	1.0	J	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.1		0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.82	J	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.77	1.9		1
10138	Naphthalene	91-20-3	1.8	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	7.9		0.77	1.9		1
10138	Pyrene	129-00-0	16		0.77	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.9	J	1.4	4.1		1
10401	Dalapon	75-99-0	5.0	U	5.0	10		1
10401	2,4-DB	94-82-6	0.71	U	0.71	2.0		1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4		1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0		1
10401	MCPA	94-74-6	1,300	U	1,300	1,300		1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290		1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20		1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20		1

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

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LLI Sample # SW 6297569
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Project Name: SSFL Area IV Collocated Soil Sampling

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--196 SDG#: DE160-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.80		0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.12	J	0.039	0.19		1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9		1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39		1
01363	p,p-DDE	72-55-9	1.0		0.076	0.39		1
01363	p,p-DDT	50-29-3	0.84		0.076	0.39		1
01363	Delta BHC	319-86-8	1.2		0.041	0.19		1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39		1
01363	Endosulfan I	959-98-8	0.29		0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39		1
01363	Endrin	72-20-8	0.076	U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.32	J	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.069	J	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	12	U	12	38		10
10225	Aroclor 5442	12642-23-8	12	U	12	38		10
10225	Aroclor 5460	11126-42-4	12	U	12	38		10
10225	PCB-1016	12674-11-2	3.8	U	3.8	20		10
10225	PCB-1221	11104-28-2	3.8	U	3.8	20		10
10225	PCB-1232	11141-16-5	3.8	U	3.8	20		10
10225	PCB-1242	53469-21-9	3.8	U	3.8	20		10
10225	PCB-1248	12672-29-6	3.8	U	3.8	20		10
10225	PCB-1254	11097-69-1	3.8	U	3.8	20		10
10225	PCB-1260	11096-82-5	4.5	U	4.5	20		10
10225	PCB-1262	37324-23-5	3.8	U	3.8	20		10
10225	PCB-1268	11100-14-4	3.8	U	3.8	20		10

Reporting limits were raised due to interference from the sample matrix.

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-196-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297569
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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--196 SDG#: DE160-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		5.64	22.4		1
07914	Boron	7440-42-8	13.6		0.998	5.61		1
01650	Calcium	7440-70-2	7,510		6.87	22.4		1
01654	Iron	7439-89-6	32,000		26.4	112		5
01656	Lithium	7439-93-2	24.9		0.25	2.2		1
01657	Magnesium	7439-95-4	7,170		2.85	11.2		1
06958	Manganese	7439-96-5	508		0.0874	0.561		1
10145	Phosphorus	7723-14-0	542		0.628	11.2		1
01662	Potassium	7440-09-7	7,700		20.2	56.1		1
01667	Sodium	7440-23-5	92.1	J	41.8	112		1
07968	Strontium	7440-24-6	35.7		0.0695	0.561		1
06969	Tin	7440-31-5	3.08	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,490		0.439	1.15		1
10146	Zirconium	7440-67-7	2.41	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.195	J	0.0673	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.41		0.0897	0.448		2
06126	Barium	7440-39-3	190		0.121	0.448		2
06127	Beryllium	7440-41-7	0.742		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.580		0.0448	0.112		2
06131	Chromium	7440-47-3	39.4		0.135	0.448		2
06132	Cobalt	7440-48-4	14.2		0.0224	0.112		2
06133	Copper	7440-50-8	24.5		0.0740	0.448		2
06135	Lead	7439-92-1	16.9		0.0117	0.224		2
06138	Molybdenum	7439-98-7	0.697		0.0561	0.112		2
06139	Nickel	7440-02-0	28.1		0.112	0.448		2
06141	Selenium	7782-49-2	0.291	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.109	J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.502		0.0336	0.112		2
06148	Vanadium	7440-62-2	72.8		0.0247	0.112		2
06149	Zinc	7440-66-6	108		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1

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Analysis Report

Sample Description: SL-196-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297569
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:05

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--196 SDG#: DE160-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.82	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 16:47	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 14:10	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 20:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/07/2011 01:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/14/2011 11:32	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011 05:31	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:28	Tara L Snyder	1

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Suite 210
Chantilly VA 20151

--196 SDG#: DE160-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 04:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 07:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 22:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	06/01/2011 02:17	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-197-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297570
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-197- SDG#: DE160-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	194	U	194	387		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthylene	208-96-8	45	J	19	190		1
04688	Aniline	62-53-3	190	U	190	580		1
04688	Anthracene	120-12-7	110	J	19	190		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	87	J	19	190		1
04688	Benzo(a)pyrene	50-32-8	190	J	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	280		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	89	J	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	89	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	130	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Chrysene	218-01-9	190	J	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	30	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,200		19	390		1
04688	Fluoranthene	206-44-0	75	J	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
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-197- SDG#: DE160-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Indeno(1,2,3-cd)pyrene	193-39-5	88	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	25	J	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenanthrene	85-01-8	21	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	150	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.9	U	3.9	9.7		5
10138	Fluorene	86-73-7	3.9	U	3.9	9.7		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.7		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.7		5
10138	Naphthalene	91-20-3	6.7	J	3.9	9.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.7		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	10		1
10401	2,4-DB	94-82-6	3.1	U	3.1	3.1		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1

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SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6297570
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.077	J	0.039	0.19		1
01363	Chlordane	57-74-9	2.3	J	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.39		1
01363	p,p-DDE	72-55-9	0.87		0.077	0.39		1
01363	p,p-DDT	50-29-3	0.72		0.077	0.39		1
01363	Delta BHC	319-86-8	0.059	J	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.39		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.15	J	0.077	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.39		1
01363	Endrin	72-20-8	0.077	U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.39		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.044	U	0.044	0.19		1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9		1
01363	Mirex	2385-85-5	0.18	J	0.077	0.39		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.6	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.3		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.93	U	0.93	2.8		2
10199	EFH (C15-C20)	n.a.	13		0.93	2.8		2

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GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	31		0.93	2.8		2
10199	EFH (C30 - C40)	n.a.	85		0.93	2.8		2
10199	EFH (C8-C11)	n.a.	1.9	J	0.93	2.8		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,900		5.80	23.1		1
07914	Boron	7440-42-8	14.9		1.03	5.77		1
01650	Calcium	7440-70-2	7,370		7.07	23.1		1
01654	Iron	7439-89-6	32,100		27.2	115		5
01656	Lithium	7439-93-2	25.9		0.25	2.3		1
01657	Magnesium	7439-95-4	7,480		2.93	11.5		1
06958	Manganese	7439-96-5	487		0.0900	0.577		1
10145	Phosphorus	7723-14-0	619		0.646	11.5		1
01662	Potassium	7440-09-7	8,590		20.8	57.7		1
01667	Sodium	7440-23-5	81.0	J	43.0	115		1
07968	Strontium	7440-24-6	35.3		0.0715	0.577		1
06969	Tin	7440-31-5	3.17	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,430		0.439	1.15		1
10146	Zirconium	7440-67-7	3.34	J	0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.77		0.0888	0.444		2
06126	Barium	7440-39-3	167		0.120	0.444		2
06127	Beryllium	7440-41-7	0.738		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.641		0.0444	0.111		2
06131	Chromium	7440-47-3	37.6		0.133	0.444		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-197-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297570
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-197- SDG#: DE160-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	13.2		0.0222	0.111		2
06133	Copper	7440-50-8	24.0		0.0733	0.444		2
06135	Lead	7439-92-1	17.8		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.763		0.0555	0.111		2
06139	Nickel	7440-02-0	26.6		0.111	0.444		2
06141	Selenium	7782-49-2	0.348	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.116		0.0133	0.111		2
06145	Thallium	7440-28-0	0.468		0.0333	0.111		2
06148	Vanadium	7440-62-2	71.0		0.0244	0.111		2
06149	Zinc	7440-66-6	110		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0083	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	14.9		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-197-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297570
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-197- SDG#: DE160-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/10/2011 15:46	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/07/2011 19:34	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 14:42	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 13:45	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 02:48	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 20:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/07/2011 03:43	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/09/2011 02:06	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/04/2011 22:23	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 01:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 02:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 12:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/03/2011 05:35	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 04:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2

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Sample Description: SL-197-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297570
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-197- SDG#: DE160-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 07:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203B	06/01/2011 07:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 22:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	06/01/2011 02:28	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 09:02	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	21.3	J	18.4	36.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(b)fluoranthene	205-99-2	29	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	25	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	34	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	88	J	18	370		1
04688	Fluoranthene	206-44-0	19	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	25	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	8.0	J	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	13		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	6.3	J	3.7	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	5.9	J	3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1

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Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	100	J	84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.53	U	0.53	0.53		1
01363	p,p-DDT	50-29-3	1.9		0.073	0.37		1

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Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	1.1		0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.17	U	0.17	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.12	U	0.12	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Endosulfan II

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	110	U	110	360		100
10225	Aroclor 5442	12642-23-8	110	U	110	360		100
10225	Aroclor 5460	11126-42-4	110	U	110	360		100
10225	PCB-1016	12674-11-2	36	U	36	190		100
10225	PCB-1221	11104-28-2	36	U	36	190		100
10225	PCB-1232	11141-16-5	36	U	36	190		100
10225	PCB-1242	53469-21-9	36	U	36	190		100
10225	PCB-1248	12672-29-6	36	U	36	190		100
10225	PCB-1254	11097-69-1	36	U	36	190		100
10225	PCB-1260	11096-82-5	170	J	43	190		100
10225	PCB-1262	37324-23-5	36	U	36	190		100
10225	PCB-1268	11100-14-4	36	U	36	190		100

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	22	U	22	66		50
10199	EFH (C15-C20)	n.a.	22	U	22	66		50
10199	EFH (C21-C30)	n.a.	160		22	66		50

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Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	740		22	66		50
10199	EFH (C8-C11)	n.a.	22	U	22	66		50
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.33	21.2		1
07914	Boron	7440-42-8	6.97		0.944	5.30		1
01650	Calcium	7440-70-2	4,450		6.50	21.2		1
01654	Iron	7439-89-6	26,600		4.99	21.2		1
01656	Lithium	7439-93-2	31.8		0.23	2.1		1
01657	Magnesium	7439-95-4	6,100		2.69	10.6		1
06958	Manganese	7439-96-5	336		0.0827	0.530		1
10145	Phosphorus	7723-14-0	559		0.594	10.6		1
01662	Potassium	7440-09-7	4,660		19.1	53.0		1
01667	Sodium	7440-23-5	112		39.5	106		1
07968	Strontium	7440-24-6	23.3		0.0657	0.530		1
06969	Tin	7440-31-5	3.15	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,240		0.415	1.09		1
10146	Zirconium	7440-67-7	1.34	J	0.891	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.167	J	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.55		0.0865	0.432		2
06126	Barium	7440-39-3	148		0.117	0.432		2
06127	Beryllium	7440-41-7	0.567		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.526		0.0432	0.108		2
06131	Chromium	7440-47-3	26.9		0.130	0.432		2
06132	Cobalt	7440-48-4	8.31		0.0216	0.108		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	20.4		0.0713	0.432		2
06135	Lead	7439-92-1	12.6		0.0112	0.216		2
06138	Molybdenum	7439-98-7	1.19		0.0540	0.108		2
06139	Nickel	7440-02-0	22.6		0.108	0.432		2
06141	Selenium	7782-49-2	0.133	J	0.0432	0.432		2
06142	Silver	7440-22-4	1.88		0.0130	0.108		2
06145	Thallium	7440-28-0	0.325		0.0324	0.108		2
06148	Vanadium	7440-62-2	42.8		0.0238	0.108		2
06149	Zinc	7440-66-6	142		0.605	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.152		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.9		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 16:20	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11148SLC026	06/06/2011 17:37	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLA026	06/13/2011 15:15	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLA026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11148SLC026	05/31/2011 09:40	Denise L Trimby	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510006A	06/03/2011 14:27	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 02:58	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111520012A	06/07/2011 20:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111470015A	06/07/2011 04:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570010A	06/14/2011 11:51	Sarah M Snyder	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111470015A	05/31/2011 04:00	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111570010A	06/06/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111520012A	06/02/2011 01:15	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510006A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/05/2011 03:01	Heather E Williams	50
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 02:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 02:48	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/03/2011 04:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111545708001	06/06/2011 06:35	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111515708005	06/02/2011 04:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297571
LLI Group # 1248467
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/18/2011 10:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-198- SDG#: DE160-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026001D	06/07/2011 16:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026001A	06/07/2011 19:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026001C	06/07/2011 16:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026001B	06/07/2011 16:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026001A	06/07/2011 16:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111515711004	06/01/2011 15:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111515708005	05/31/2011 20:37	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111545708001	06/05/2011 20:05	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026001	06/06/2011 10:33	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111515711004	05/31/2011 12:21	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11151621203B	06/01/2011 08:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11151621203B	06/01/2011 08:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11153373203B	06/07/2011 23:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11147243201A	06/01/2011 02:40	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 09:03	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11151621203B	05/31/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11153373203B	06/02/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039401B	06/01/2011 21:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11147243201A	05/27/2011 19:00	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11146SLF026	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11148SLA026	Sample number(s): 6297552-6297571									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	92		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	83		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	116		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	148*		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	138		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	124		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	133		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	90		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	129		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	103		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	127		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	142		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		56-121		
Batch number: 11148SLC026	Sample number(s): 6297552-6297571									
Acenaphthene	17	U	17.	170	ug/kg	94		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	97		75-122		
Aniline	170 U		170.	500	ug/kg	69		34-94		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	53		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	92		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	85		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	87		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	103		67-125		
Benzoic acid	170 U		170.	500	ug/kg	100		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	97		68-111		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	103		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	99		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	91		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	94		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	87		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	60		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	100		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	94		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	100		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	101		75-117		
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	90		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	89		64-119		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	104		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	93		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 111510006A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	100	96	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	99	96	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	106		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
HMX	100 U		100.	300	ug/kg	97		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	113		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	106		80-120		
PETN	800 U		800.	2,400	ug/kg	116		80-120		
RDX	50	U	50.	120	ug/kg	100		75-131		
Tetryl	61	U	61.	120	ug/kg	104		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 111530001A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	95		80-126		
Batch number: 111520012A	Sample number(s): 6297552-6297571									
2,4-D	1.2	U	1.2	3.6	ug/kg	95		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	45		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	93		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	67		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	11		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	111		62-170		
MCPA	76	U	76.	250	ug/kg	83		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	95		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	98		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	87		68-114		
Batch number: 111520014A	Sample number(s): 6297556-6297559									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111470010A	Sample number(s): 6297555									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	105	113*	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	154*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	125		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111470015A	Sample number(s): 6297552-6297571									
Aldrin	0.066	U	0.066	0.17	ug/kg	61		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	88		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	75		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	91		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	110		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	78		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	109		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	118		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	76		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	57*		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	94		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	115		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	70		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	86		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	109		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	73		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	116		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111570010A	Sample number(s): 6297552-6297554,6297556-6297571									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	88	84	36-106	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	83		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111480003A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	95		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	96		69-132		
EFH (C30 - C40)	1.4		0.40	1.2	mg/kg	90		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	71		54-107		
Batch number: 111450035A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
Ethanol	100 U		100.	500	ug/kg	91		71-129		
Isopropanol	100 U		100.	500	ug/kg	92		75-125		
Methanol	100 U		100.	500	ug/kg	94		68-129		
Batch number: 111460011A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	89		65-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Propylene glycol	5.0	U	5.0	10	mg/kg	91		75-125		
Batch number: 111510027A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111515708005	Sample number(s): 6297552-6297571									
Aluminum	5.03	U	5.03	20.0	mg/kg	108		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	6.51	J	6.13	20.0	mg/kg	103		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	104		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	107		89-112		
Phosphorus	1.32	J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	104		78-110		
Sodium	37.3	U	37.3	100	mg/kg	100		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	105		86-110		
Tin	1.56	J	1.00	10.0	mg/kg	104		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	102		80-120		
Batch number: 111515711004	Sample number(s): 6297552-6297571									
Mercury	0.0028	U	0.0028	0.0993	mg/kg	90		88-123		
Batch number: 111545708001	Sample number(s): 6297552-6297571									
Titanium	0.380	U	0.380	1.00	mg/kg	112		80-120		
Batch number: 111571026001A	Sample number(s): 6297552-6297571									
Antimony	0.0571	U	0.0571	0.190	mg/kg	72		27-181		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	98		83-113		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	108		86-111		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	103		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	95		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	103		82-118		
Copper	0.0629	U	0.0629	0.381	mg/kg	95		83-110		
Lead	0.0120	J	0.0099	0.190	mg/kg	99		83-110		
Nickel	0.0952	U	0.0952	0.381	mg/kg	101		81-110		
Silver	0.0114	U	0.0114	0.0952	mg/kg	97		81-111		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	100		83-110		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	85		84-116		
Zinc	0.533	U	0.533	2.86	mg/kg	99		81-112		
Batch number: 111571026001B	Sample number(s): 6297552-6297571									
Selenium	0.0381	U	0.0381	0.381	mg/kg	103		83-111		
Batch number: 111571026001C	Sample number(s): 6297552-6297571									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	109		78-122		
Batch number: 111571026001D	Sample number(s): 6297552-6297571									
Barium	0.103	U	0.103	0.381	mg/kg	104		81-111		
Batch number: 11147243201A	Sample number(s): 6297552-6297571									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11151621203A	Sample number(s): 6297552-6297561									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11151621203B	Sample number(s): 6297562-6297571									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11153102201A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	108		80-120		
Batch number: 11153373203A	Sample number(s): 6297552-6297561									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11153373203B	Sample number(s): 6297562-6297571									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11152039401A	Sample number(s): 6297552-6297560									
18a pH by 9045C						100		95-105		
Batch number: 11152039401B	Sample number(s): 6297561-6297571									
18a pH by 9045C						100		95-105		
Batch number: 11154162401A	Sample number(s): 6297552-6297555,6297561-6297563,6297566-6297569									
Moisture Content by 160.3						100		80-120		
Batch number: 11161162401A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11146SLF026	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: 6297556								
N-Nitrosodimethylamine	72	73	70-130	2	30				
Batch number: 11148SLA026	Sample number(s): 6297552-6297571 UNSPK: 6297552								
Acenaphthene	92	101	63-105	9	30				
Acenaphthylene	86	90	67-114	4	30				
Anthracene	98	101	60-122	3	30				
Benzo(a)anthracene	99	100	59-128	2	30				
Benzo(a)pyrene	117	119	45-138	2	30				
Benzo(b)fluoranthene	120	117	43-155	2	30				
Benzo(g,h,i)perylene	134	120	33-141	10	30				
Benzo(k)fluoranthene	107	122	42-144	12	30				
Butylbenzylphthalate	128	133	57-173	4	30				
Di-n-butylphthalate	125	125	65-148	1	30				
Chrysene	97	98	48-134	1	30				
Dibenz(a,h)anthracene	153*	122	22-133	23	30				
Diethylphthalate	101	113	70-136	11	30				
Dimethylphthalate	93	108	74-118	15	30				
Bis(2-Ethylhexyl)phthalate	136	130	39-167	5	30				
Fluoranthene	99	81	26-166	19	30				
Fluorene	97	114	66-122	17	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	152*	120	21-143	23	30				
1-Methylnaphthalene	106	96	72-123	11	30				
2-Methylnaphthalene	92	90	64-103	2	30				
Naphthalene	95	96	61-102	1	30				
N-Nitrosodimethylamine	90	94	48-113	5	30				
Di-n-octylphthalate	147	136	40-192	7	30				
Phenanthrene	96	98	12-165	2	30				
Pyrene	98	96	15-153	2	30				
Batch number: 11148SLC026	Sample number(s): 6297552-6297571 UNSPK: 6297552								
Acenaphthene	93	94	75-115	1	30				
Acenaphthylene	95	95	81-110	0	30				
Aniline	79	73	35-95	8	30				
Anthracene	97	95	75-115	2	30				
Benzidine	48	47	35-141	2	30				
Benzo(a)anthracene	95	95	65-122	0	30				
Benzo(a)pyrene	89	86	57-126	3	30				
Benzo(b)fluoranthene	92	86	59-125	5	30				
Benzo(g,h,i)perylene	93	88	59-127	4	30				
Benzo(k)fluoranthene	87	88	56-132	1	30				
Benzoic acid	48	46	10-173	4	30				
Benzyl alcohol	100	96	67-115	3	30				
4-Bromophenyl-phenylether	95	94	67-129	1	30				
Butylbenzylphthalate	109	103	73-134	5	30				
Di-n-butylphthalate	95	94	67-123	0	30				
Carbazole	94	94	64-120	1	30				
4-Chloro-3-methylphenol	97	97	76-110	0	30				
4-Chloroaniline	54	69	23-95	25	30				
bis(2-Chloroethoxy)methane	92	89	75-104	3	30				
bis(2-Chloroethyl)ether	90	90	60-116	1	30				
bis(2-Chloroisopropyl)ether	90	88	55-142	2	30				
2-Chloronaphthalene	92	90	50-141	2	30				
2-Chlorophenol	102	100	73-121	2	30				
4-Chlorophenyl-phenylether	94	93	80-109	0	30				
Chrysene	99	93	62-128	5	30				
Dibenz(a,h)anthracene	93	87	65-125	6	30				
Dibenzofuran	95	92	71-112	3	30				
1,2-Dichlorobenzene	88	86	66-108	2	30				
1,3-Dichlorobenzene	84	81	63-109	4	30				
1,4-Dichlorobenzene	85	81	70-100	4	30				
3,3'-Dichlorobenzidine	63	60	16-119	4	30				
2,4-Dichlorophenol	100	98	78-117	1	30				
Diethylphthalate	92	92	66-118	1	30				
2,4-Dimethylphenol	97	96	78-110	1	30				
3,5-Dimethylphenol	109	105	70-130	3	30				
Dimethylphthalate	92	92	64-118	0	30				
4,6-Dinitro-2-methylphenol	70	67	24-116	3	30				
2,4-Dinitrophenol	49	46	20-143	6	30				
2,4-Dinitrotoluene	92	91	73-113	1	30				
2,6-Dinitrotoluene	92	92	69-123	0	30				
1,2-Diphenylhydrazine	101	98	71-129	2	30				
bis(2-Ethylhexyl)phthalate	103	100	63-122	2	30				
Fluoranthene	94	93	73-112	1	30				

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Quality Control Summary

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Reported: 06/18/11 at 10:34 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobenzene	96	95	77-114	1	30				
Hexachlorobutadiene	88	87	62-120	1	30				
Hexachlorocyclopentadiene	78	71	10-153	8	30				
Hexachloroethane	82	79	57-109	3	30				
Indeno(1,2,3-cd)pyrene	92	88	61-126	4	30				
Isophorone	92	90	73-102	2	30				
2-Methylphenol	98	96	75-111	2	30				
4-Methylphenol	98	95	71-111	3	30				
2-Nitroaniline	97	98	67-125	1	30				
3-Nitroaniline	90	91	59-122	2	30				
4-Nitroaniline	76	76	52-112	1	30				
Nitrobenzene	91	91	72-106	1	30				
2-Nitrophenol	91	90	74-115	1	30				
4-Nitrophenol	81	81	54-113	1	30				
N-Nitroso-di-n-propylamine	92	89	60-116	3	30				
N-Nitrosodiphenylamine	98	96	86-145	1	30				
Di-n-octylphthalate	100	98	56-126	1	30				
Pentachlorophenol	84	73	28-127	13	30				
Phenanthrene	93	93	65-125	1	30				
Phenol	93	91	58-126	2	30				
Pyrene	106	103	74-126	3	30				
1,2,4-Trichlorobenzene	92	88	72-115	3	30				
2,4,5-Trichlorophenol	97	93	78-109	3	30				
2,4,6-Trichlorophenol	99	96	77-115	3	30				
Batch number: 111510006A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: P296047								
4-Amino-2,6-Dinitrotoluene	113	110	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	112	110	80-137	2	50				
1,3-Dinitrobenzene	116	114	38-166	2	50				
2,4-Dinitrotoluene	108	107	80-131	1	50				
2,6-Dinitrotoluene	111	109	80-127	1	50				
HMX	100	96	63-128	4	50				
Nitrobenzene	112	113	80-125	1	50				
Nitroglycerin	101	99	80-120	2	50				
2-Nitrotoluene	106	105	80-122	1	50				
3-Nitrotoluene	114	112	72-119	1	50				
4-Nitrotoluene	105	104	80-125	1	50				
PETN	127*	122*	80-121	4	50				
RDX	93	91	75-129	2	50				
Tetryl	92	80	55-174	13	50				
1,3,5-Trinitrobenzene	108	105	82-126	3	50				
2,4,6-Trinitrotoluene	112	108	82-130	3	50				
Batch number: 111530001A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: P302801								
25a Formaldehyde 8315A	95	99	80-120	3	50				
Batch number: 111520012A	Sample number(s): 6297552-6297571 UNSPK: 6297554								
2,4-D	59	101	17-180	52*	35				
Dalapon	81	78	10-125	3	50				
2,4-DB	112	118	10-201	6	50				
Dicamba	72	87	10-190	18	50				
Dinoseb	18	16	10-46	13	35				
2,4-DP (Dichlorprop)	111	109	33-178	2	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
MCPA	62	55	10-213	8	50				
MCPP (Mecoprop)	84	78	10-184	7	50				
2,4,5-T	100	100	10-156	0	35				
2,4,5-TP	72	69	24-141	4	35				
Batch number: 111520014A	Sample number(s): 6297556-6297559 UNSPK: P296036								
6a Perchlorate EPA 6850	103	107	80-120	3	20				
Batch number: 111470010A	Sample number(s): 6297555 UNSPK: P297552								
PCB-1016	269*	357*	29-146	28	50				
PCB-1260	142	224*	39-149	33	50				
Batch number: 111470015A	Sample number(s): 6297552-6297571 UNSPK: 6297553								
Aldrin	58	52	16-126	11	50				
Alpha BHC	82	76	10-129	8	50				
Beta BHC	0*	75	14-147	200*	50				
Gamma BHC - Lindane	91	73	10-140	22	50				
p,p-DDD	86	56	16-163	43	50				
p,p-DDE	78	6*	18-161	74*	50				
p,p-DDT	32	-34*	10-176	33	50				
Delta BHC	97	62	23-140	31	50				
Dieldrin	33	97	19-154	96*	50				
Endosulfan I	55	48	16-137	12	50				
Endosulfan II	65	43	28-154	40	50				
Endosulfan Sulfate	85	69	21-160	20	50				
Endrin	0*	57	11-149	200*	50				
Endrin Aldehyde	50	38	10-148	28	35				
Endrin Ketone	36	35	22-165	3	50				
Heptachlor	97	88	13-126	10	50				
Heptachlor Epoxide	76	53	13-157	38	50				
Methoxychlor	72	95	32-147	28	50				
Batch number: 111570010A	Sample number(s): 6297552-6297554,6297556-6297571 UNSPK: 6297552								
PCB-1016	98	99	29-146	2	50				
PCB-1260	-5*	0*	39-149	5	50				
Batch number: 111480003A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: 6297556								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	84 (2)	1202 (2)	49-123	34*	20				
EFH (C30 - C40)	391 (2)	3019 (2)	49-123	28*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111450035A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: P296047								
Ethanol	66	64	48-130	2	20				
Isopropanol	71	71	12-149	1	20				
Methanol	71	69	43-138	2	20				
Batch number: 111460011A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: 6297556								
Diethylene glycol	58*	47*	59-109	21*	20				
Ethylene glycol	80	72	63-107	9	20				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Propylene glycol	85	79	63-107	8	20				
Batch number: 111510027A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: P296047								
m-Terphenyl	82	80	75-125	2	20				
o-Terphenyl	98	95	75-125	4	20				
p-Terphenyl	94	93	75-125	1	20				
Batch number: 111515708005	Sample number(s): 6297552-6297571 UNSPK: 6297552 BKG: 6297552								
Aluminum	1579 (2)	2154 (2)	75-125	5	20	21,400	21,000	2	20
Boron	100	101	84-115	4	20	11.2	11.0	2 (1)	20
Calcium	351 (2)	174 (2)	75-125	2	20	34,900	35,500	2	20
Iron	726 (2)	1181 (2)	75-125	2	20	22,300	22,000	1	20
Lithium	103	104	82-114	3	20	19.3	18.1	6	20
Magnesium	210 (2)	233 (2)	75-125	1	20	5,730	5,590	3	20
Manganese	109 (2)	105 (2)	75-125	0	20	329	325	1	20
Phosphorus	99 (2)	110 (2)	75-125	3	20	440	459	4	20
Potassium	148 (2)	155 (2)	75-125	2	20	4,450	4,340	2	20
Sodium	100	101	75-125	4	20	116	117	0 (1)	20
Strontium	100	100	75-115	2	20	71.1	72.7	2	20
Tin	87	89	80-110	5	20	2.30 J	2.49 J	8 (1)	20
Zirconium	93	94	75-125	4	20	3.21 J	3.97 J	21* (1)	20
Batch number: 111515711004	Sample number(s): 6297552-6297571 UNSPK: 6297552 BKG: 6297552								
Mercury	90	91	65-135	1	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 111545708001	Sample number(s): 6297552-6297571 UNSPK: 6297554 BKG: 6297554								
Titanium	472 (2)	486 (2)	75-125	1	20	1,500	1,200	23*	20
Batch number: 111571026001A	Sample number(s): 6297552-6297571 UNSPK: 6297552 BKG: 6297552								
Antimony	30*	35*	75-125	9	20	0.0951 J	0.0950 J	0 (1)	20
Arsenic	91	151*	75-125	17	20	3.93	3.91	1	20
Beryllium	71*	75	75-125	0	20	0.471	0.445	6 (1)	20
Cadmium	94	119	75-125	15	20	0.204	0.187	9 (1)	20
Chromium	90	162*	75-125	20	20	19.7	19.5	1	20
Cobalt	87	121	75-125	25*	20	6.43	6.37	1	20
Copper	78	130*	75-125	23*	20	9.97	9.69	3	20
Lead	97	180*	75-125	21*	20	6.80	6.74	1	20
Nickel	83	138*	75-125	21*	20	12.5	12.4	1	20
Silver	96	108	75-125	7	20	0.0267 J	0.0227 J	16 (1)	20
Thallium	96	121	75-125	11	20	0.250	0.237	6 (1)	20
Vanadium	108	223*	75-125	19	20	37.6	37.7	0	20
Zinc	45 (2)	175 (2)	75-125	21*	20	48.2	47.9	0	20
Batch number: 111571026001B	Sample number(s): 6297552-6297571 UNSPK: 6297552 BKG: 6297552								
Selenium	88	96	75-125	4	20	0.165 J	0.145 J	13 (1)	20
Batch number: 111571026001C	Sample number(s): 6297552-6297571 UNSPK: 6297552 BKG: 6297552								
Molybdenum	87	113	75-125	20	20	0.291	0.242	18 (1)	20
Batch number: 111571026001D	Sample number(s): 6297552-6297571 UNSPK: 6297552 BKG: 6297552								
Barium	115 (2)	398 (2)	75-125	26*	20	78.5	79.8	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11147243201A	Sample number(s): 6297552-6297571 UNSPK: 6297552 BKG: 6297552								
3a Cr VI by EPA 7199	91		75-125			0.51 J	1.1	74* (1)	20
Batch number: 11151621203A	Sample number(s): 6297552-6297561 UNSPK: 6297552 BKG: 6297552								
11a Anions by 300.0 - Fluoride	69*		80-120			2.3	2.5	7 (1)	20
11a Anions by 300.0 - Nitrate	93		80-120			2.0	2.2	11 (1)	20
Batch number: 11151621203B	Sample number(s): 6297562-6297571 UNSPK: 6297562 BKG: 6297562								
11a Anions by 300.0 - Fluoride	47*		80-120			2.1	1.8	13 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			7.2	6.3	13 (1)	20
Batch number: 11153102201A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 UNSPK: 6297556 BKG: 6297556								
17a Cyanide by 9012B	108		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11153373203A	Sample number(s): 6297552-6297561 UNSPK: 6297552 BKG: 6297552								
7a Perchlorate EPA 314.0	110		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11153373203B	Sample number(s): 6297562-6297571 UNSPK: 6297562 BKG: 6297562								
7a Perchlorate EPA 314.0	92		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11152039401A	Sample number(s): 6297552-6297560 BKG: 6297552								
18a pH by 9045C						8.19	8.22	0	3
Batch number: 11152039401B	Sample number(s): 6297561-6297571 BKG: 6297561								
18a pH by 9045C						7.18	7.21	0	3
Batch number: 11154162401A	Sample number(s): 6297552-6297555,6297561-6297563,6297566-6297569 BKG: 6297567								
Moisture Content by 160.3						20.3	20.3	0	20
Batch number: 11161162401A	Sample number(s): 6297556-6297560,6297564-6297565,6297570-6297571 BKG: 6297560								
Moisture Content by 160.3						12.5	12.5	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLF026

	N-Nitrosodimethylamine-d6
6297556	114
6297557	92
6297558	108
6297559	104
6297560	99
6297564	128

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Surrogate Quality Control

6297565	143
6297570	1015*
6297571	128
Blank	82
LCS	82
MS	101
MSD	97
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11148SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6297552	84	89	85
6297553	122	105	109
6297554	102	93	91
6297555	102	92	86
6297556	98	87	95
6297557	106	97	101
6297558	85	96	96
6297559	111	93	127
6297560	96	79	103
6297561	87	109	90
6297562	110	91	101
6297563	122	98	96
6297564	102	85	114
6297565	132*	88	110
6297566	113	86	92
6297567	110	88	111
6297568	95	86	88
6297569	107	81	96
6297570	93	88	83
6297571	92	114	100
Blank	106	99	104
LCS	93	85	91
MS	106	95	99
MSD	101	98	100
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11148SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6297552	94	95	94	87	86	92
6297553	92	94	84	81	83	88
6297554	94	97	86	86	89	96
6297555	90	94	83	84	89	89
6297556	89	92	82	83	87	89
6297557	90	93	83	87	90	86
6297558	85	89	78	80	85	84
6297559	87	90	82	88	93	83
6297560	88	91	85	86	92	85
6297561	88	91	81	86	90	81
6297562	86	88	78	83	88	84
6297563	88	91	82	84	89	84
6297564	89	93	73	87	92	84

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Surrogate Quality Control

6297565	84	87	79	81	88	81
6297566	87	90	77	85	90	83
6297567	88	93	79	87	92	83
6297568	90	93	78	87	92	88
6297569	96	97	92	80	85	96
6297570	86	90	82	82	86	92
6297571	108	105	90	86	88	100
Blank	85	88	90	82	83	81
LCS	97	99	101	87	90	92
MS	95	96	92	84	85	93
MSD	93	94	90	82	85	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111470010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6297555	120	110
Blank	137	118
LCS	130	116
LCSD	141*	131*
MS	137	136*
MSD	170*	173*
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 111470015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6297552	88	90
6297553	87	86
6297554	83	80
6297555	83	79
6297556	82	62
6297557	85	47
6297558	69	84
6297559	79	36
6297560	78	112
6297561	78	279*
6297562	71	83
6297563	76	74
6297564	61	56
6297565	66	54
6297566	67	73
6297567	86	56
6297568	71	79
6297569	82	75
6297570	70	110
6297571	73	80
Blank	80	100
LCS	74	93
MS	73	112
MSD	71	84
Limits:	50-130	20-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Surrogate Quality Control

Analysis Name: 16a Energetics by 8330A
Batch number: 111510006A

	2-Nitro-m-xylene
6297556	113
6297557	132
6297558	138
6297559	137
6297560	117
6297564	131
6297565	119
6297570	130
6297571	135
Blank	119
LCS	126
LCSD	123
MS	126
MSD	122
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111520012A

	2,4-Dichlorophenylacetic acid
6297552	65
6297553	99
6297554	91
6297555	104
6297556	98
6297557	94
6297558	64
6297559	66
6297560	98
6297561	90
6297562	90
6297563	73
6297564	66
6297565	48
6297566	76
6297567	94
6297568	94
6297569	107
6297570	110
6297571	103
Blank	75
LCS	94
MS	102
MSD	98
Limits:	36-156

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111530001A

	Butyraldehyde

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Surrogate Quality Control

6297556	134*
6297557	133*
6297558	128*
6297559	134*
6297560	132*
6297564	116
6297565	128*
6297570	128*
6297571	132*
Blank	134*
LCS	130*
MS	129*
MSD	134*

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111570010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6297552	83	68
6297553	100	97
6297554	100	91
6297556	93	60
6297557	107	66
6297558	102	80
6297559	98	88
6297560	100	81
6297561	97	67
6297562	101	78
6297563	95	83
6297564	95	310*
6297565	93	77
6297566	98	113
6297567	88	92
6297568	96	117
6297569	113	64
6297570	88	125*
6297571	99	73
Blank	103	92
LCS	96	94
LCSD	96	99
MS	103	99
MSD	103	100
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 111450035A

	Acetone
6297556	74
6297557	71
6297558	69
6297559	69
6297560	65
6297564	69
6297565	60

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Surrogate Quality Control

6297570	65
6297571	79
Blank	87
LCS	86
MS	74
MSD	76
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111460011A

	Tetramethylene glycol
6297556	83
6297557	86
6297558	81
6297559	88
6297560	86
6297564	90
6297565	83
6297570	83
6297571	90
Blank	90
LCS	97
MS	84
MSD	89
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111480003A

	Chlorobenzene	Orthoterphenyl
6297556	82	95
6297557	168*	205*
6297558	83	96
6297559	159*	200*
6297560	74	93
6297564	79	97
6297565	85	103
6297570	82	102
6297571	0*	103
Blank	78	94
LCS	82	92
MS	0*	96
MSD	83	95
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111510027A

	n-Triacontane-d62
6297556	125
6297557	142
6297558	111
6297559	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248467
Reported: 06/18/11 at 10:34 AM

Surrogate Quality Control

6297560	68
6297564	73
6297565	65
6297570	64
6297571	122
Blank	92
LCS	94
MS	151*
MSD	130
Limits:	50-150

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13013 1248467 6297552-71

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS										SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-008-SA5DN-SS-0.0-0.5	5.23.11	1700	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-008-SA5DN-SS-0.0-0.5	5.23.11	1700	SOIL	NONE	1-SS sleeve			X	X																	
SL-009-SA5DN-SS-0.0-0.5	5.23.11	1720	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-009-SA5DN-SS-0.0-0.5	5.23.11	1720	SOIL	NONE	1-SS sleeve			X	X																	
SL-010-SA5DN-SS-0.0-0.5	5.23.11	1640	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-010-SA5DN-SS-0.0-0.5	5.23.11	1640	SOIL	NONE	1-SS sleeve			X	X																	
SL-011-SA5DN-SS-0.0-0.5	5.23.11	1622	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-011-SA5DN-SS-0.0-0.5	5.23.11	1622	SOIL	NONE	1-SS sleeve			X	X																	
SL-012-SA5DN-SS-0.0-0.5	5.23.11	1545	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SL-012-SA5DN-SS-0.0-0.5	5.23.11	1545	SOIL	NONE	1-SS sleeve			X	X																	
SL-013-SA5DN-SS-0.0-0.5	5.23.11	1525	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SL-013-SA5DN-SS-0.0-0.5	5.23.11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-014-SA5DN-SS-0.0-0.5	5.23.11	1455	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SL-014-SA5DN-SS-0.0-0.5	5.23.11	1455	SOIL	NONE	1-SS sleeve			X	X																	
SL-018-SA5DN-SS-0.0-0.5	5.23.11	1435	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SL-018-SA5DN-SS-0.0-0.5	5.23.11	1435	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	05/24/2011 / 1700	5/25/11 915	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1442 0887, 0898,0902 8695 1441 8019	

13013 1248467 6297552-71

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X		
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	1-SS sleeve			X	X																	
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-SS sleeve			X	X																	
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-SS sleeve			X	X																	
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-SS sleeve			X	X																	
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X		
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X		
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	1-SS sleeve			X	X																	
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-SS sleeve			X	X																	
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-SS sleeve			X	X																	
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0905	SOIL	NONE	1-SS sleeve			X	X																	
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X		
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	1-SS sleeve			X	X																	
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X		
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1008	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1008	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/24/2011 / 1700	5/25/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0887, 0898,0902 8695 1441 8019	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/25/2011
Group Number: 1248472
SDG: DX088
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA5DN-SS-0.0-0.5 Soil	6297580
SL-009-SA5DN-SS-0.0-0.5 Soil	6297581
SL-010-SA5DN-SS-0.0-0.5 Soil	6297582
SL-011-SA5DN-SS-0.0-0.5 Soil	6297583
SL-012-SA5DN-SS-0.0-0.5 Soil	6297584
SL-013-SA5DN-SS-0.0-0.5 Soil	6297585
SL-014-SA5DN-SS-0.0-0.5 Soil	6297586
SL-018-SA5DN-SS-0.0-0.5 Soil	6297587
SL-186-SA5DN-SS-0.0-0.5 Soil	6297588
SL-187-SA5DN-SS-0.0-0.5 Soil	6297589
SL-188-SA5DN-SS-0.0-0.5 Soil	6297590
SL-189-SA5DN-SS-0.0-0.5 Soil	6297591
SL-191-SA5DN-SS-0.0-0.5 Soil	6297592
SL-192-SA5DN-SS-0.0-0.5 Soil	6297593
SL-193-SA5DN-SS-0.0-0.5 Soil	6297594
SL-194-SA5DN-SS-0.0-0.5 Soil	6297595
SL-195-SA5DN-SS-0.0-0.5 Soil	6297596
SL-196-SA5DN-SS-0.0-0.5 Soil	6297597
SL-197-SA5DN-SS-0.0-0.5 Soil	6297598
SL-198-SA5DN-SS-0.0-0.5 Soil	6297599

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297580
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00805 SDG#: DX088-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297580
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00805 SDG#: DX088-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.103	J	0.0214	1.08	1
11031	12378-PeCDD	40321-76-4	0.275	JB	0.0474	5.41	1
11031	123478-HxCDD	39227-28-6	0.323	JB	0.0842	5.41	1
11031	123678-HxCDD	57653-85-7	1.14	JB	0.0867	5.41	1
11031	123789-HxCDD	19408-74-3	0.840	JB	0.0819	5.41	1
11031	1234678-HpCDD	35822-46-9	20.8	B	0.0861	5.41	1
11031	OCDD	3268-87-9	270	B	0.0695	10.8	1
11031	2378-TCDF	51207-31-9	1.18	B	0.213	1.08	1
11650	2378-TCDF-Conf	51207-31-9	0.644	JB	0.0554	1.08	1
11031	12378-PeCDF	57117-41-6	4.27	JB	0.0837	5.41	1
11031	23478-PeCDF	57117-31-4	1.06	JB	0.0815	5.41	1
11031	123478-HxCDF	70648-26-9	2.08	JB	0.0800	5.41	1
11031	123678-HxCDF	57117-44-9	0.488	JB	0.0778	5.41	1
11031	123789-HxCDF	72918-21-9	0.353	JBQ	0.0903	5.41	1
11031	234678-HxCDF	60851-34-5	0.403	JB	0.0764	5.41	1
11031	1234678-HpCDF	67562-39-4	3.43	JB	0.0295	5.41	1
11031	1234789-HpCDF	55673-89-7	0.269	JB	0.0357	5.41	1
11031	OCDF	39001-02-0	6.80	JB	0.0376	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-2378-TCDF-Conf	65	24 - 169
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297580
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00805 SDG#: DX088-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-008-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297580
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00805 SDG#: DX088-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/09/2011 21:13	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11158001	06/14/2011 16:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297581
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00905 SDG#: DX088-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	23.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297581
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00905 SDG#: DX088-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.139	JBQ	0.0221	1.30	1
11031	12378-PeCDD	40321-76-4	0.519	JB	0.0380	6.52	1
11031	123478-HxCDD	39227-28-6	0.815	JB	0.0411	6.52	1
11031	123678-HxCDD	57653-85-7	1.71	JB	0.0438	6.52	1
11031	123789-HxCDD	19408-74-3	1.43	JB	0.0418	6.52	1
11031	1234678-HpCDD	35822-46-9	42.5	B	0.0716	6.52	1
11031	OCDD	3268-87-9	655	B	0.0770	13.0	1
11031	2378-TCDF	51207-31-9	0.504	J	0.0888	1.30	1
11031	12378-PeCDF	57117-41-6	2.24	JB	0.0396	6.52	1
11031	23478-PeCDF	57117-31-4	0.933	JB	0.0364	6.52	1
11031	123478-HxCDF	70648-26-9	0.979	JB	0.0368	6.52	1
11031	123678-HxCDF	57117-44-9	0.681	JB	0.0343	6.52	1
11031	123789-HxCDF	72918-21-9	0.448	JB	0.0401	6.52	1
11031	234678-HxCDF	60851-34-5	0.711	JB	0.0342	6.52	1
11031	1234678-HpCDF	67562-39-4	9.93	B	0.0288	6.52	1
11031	1234789-HpCDF	55673-89-7	0.546	JB	0.0378	6.52	1
11031	OCDF	39001-02-0	21.4	B	0.0360	13.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297581
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00905 SDG#: DX088-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297581
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 17:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00905 SDG#: DX088-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 00:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297582
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01005 SDG#: DX088-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297582
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01005 SDG#: DX088-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0282 JB	0.0200	1.01	1
11031	12378-PeCDD	40321-76-4	0.0799 JBQ	0.0222	5.05	1
11031	123478-HxCDD	39227-28-6	0.103 JBQ	0.0251	5.05	1
11031	123678-HxCDD	57653-85-7	0.194 JB	0.0269	5.05	1
11031	123789-HxCDD	19408-74-3	0.155 JB	0.0251	5.05	1
11031	1234678-HpCDD	35822-46-9	4.15 JB	0.0326	5.05	1
11031	OCDD	3268-87-9	49.4 B	0.0336	10.1	1
11031	2378-TCDF	51207-31-9	0.0293 U	0.0293	1.01	1
11031	12378-PeCDF	57117-41-6	0.111 JB	0.0182	5.05	1
11031	23478-PeCDF	57117-31-4	0.147 JB	0.0182	5.05	1
11031	123478-HxCDF	70648-26-9	0.0716 JBQ	0.0201	5.05	1
11031	123678-HxCDF	57117-44-9	0.0747 JB	0.0183	5.05	1
11031	123789-HxCDF	72918-21-9	0.0583 JB	0.0212	5.05	1
11031	234678-HxCDF	60851-34-5	0.114 JB	0.0193	5.05	1
11031	1234678-HpCDF	67562-39-4	0.653 JB	0.0193	5.05	1
11031	1234789-HpCDF	55673-89-7	0.0790 JB	0.0290	5.05	1
11031	OCDF	39001-02-0	1.33 JB	0.0319	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297582
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01005 SDG#: DX088-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297582
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:40

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01005 SDG#: DX088-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 01:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297583
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01105 SDG#: DX088-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297583
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01105 SDG#: DX088-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0241	JBQ	0.0186	1.12	1
11031	12378-PeCDD	40321-76-4	0.157	JB	0.0267	5.60	1
11031	123478-HxCDD	39227-28-6	0.270	JB	0.0291	5.60	1
11031	123678-HxCDD	57653-85-7	0.437	JB	0.0303	5.60	1
11031	123789-HxCDD	19408-74-3	0.484	JB	0.0294	5.60	1
11031	1234678-HpCDD	35822-46-9	8.58	B	0.0364	5.60	1
11031	OCDD	3268-87-9	97.4	B	0.0360	11.2	1
11031	2378-TCDF	51207-31-9	0.350	J	0.0658	1.12	1
11031	12378-PeCDF	57117-41-6	1.56	JB	0.0300	5.60	1
11031	23478-PeCDF	57117-31-4	0.425	JBQ	0.0284	5.60	1
11031	123478-HxCDF	70648-26-9	0.363	JBQ	0.0265	5.60	1
11031	123678-HxCDF	57117-44-9	0.279	JB	0.0247	5.60	1
11031	123789-HxCDF	72918-21-9	0.289	JB	0.0274	5.60	1
11031	234678-HxCDF	60851-34-5	0.236	JBQ	0.0252	5.60	1
11031	1234678-HpCDF	67562-39-4	2.13	JB	0.0186	5.60	1
11031	1234789-HpCDF	55673-89-7	0.230	JBQ	0.0234	5.60	1
11031	OCDF	39001-02-0	4.25	JB	0.0340	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297583
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01105 SDG#: DX088-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297583
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 16:22

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01105 SDG#: DX088-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 05:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297584
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01205 SDG#: DX088-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297584
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01205 SDG#: DX088-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	JBQ	0.0206	1.10	1
11031	12378-PeCDD	40321-76-4	0.152	JB	0.0293	5.52	1
11031	123478-HxCDD	39227-28-6	0.161	JB	0.0394	5.52	1
11031	123678-HxCDD	57653-85-7	0.915	JB	0.0420	5.52	1
11031	123789-HxCDD	19408-74-3	0.617	JB	0.0394	5.52	1
11031	1234678-HpCDD	35822-46-9	27.4	B	0.0663	5.52	1
11031	OCDD	3268-87-9	428	B	0.0784	11.0	1
11031	2378-TCDF	51207-31-9	0.105	J	0.0375	1.10	1
11031	12378-PeCDF	57117-41-6	0.440	JB	0.0231	5.52	1
11031	23478-PeCDF	57117-31-4	0.402	JB	0.0227	5.52	1
11031	123478-HxCDF	70648-26-9	0.472	JB	0.0280	5.52	1
11031	123678-HxCDF	57117-44-9	0.376	JB	0.0272	5.52	1
11031	123789-HxCDF	72918-21-9	0.512	JBQ	0.0306	5.52	1
11031	234678-HxCDF	60851-34-5	0.272	JB	0.0278	5.52	1
11031	1234678-HpCDF	67562-39-4	4.44	JB	0.0282	5.52	1
11031	1234789-HpCDF	55673-89-7	0.351	JB	0.0345	5.52	1
11031	OCDF	39001-02-0	7.74	JB	0.0360	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-012-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297584
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01205 SDG#: DX088-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-012-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297584
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01205 SDG#: DX088-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 06:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297585
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01305 SDG#: DX088-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297585
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01305 SDG#: DX088-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0755	JBQ	0.0221	1.01	1
11031	12378-PeCDD	40321-76-4	0.207	JBQ	0.0275	5.04	1
11031	123478-HxCDD	39227-28-6	0.238	JBQ	0.0348	5.04	1
11031	123678-HxCDD	57653-85-7	0.657	JB	0.0377	5.04	1
11031	123789-HxCDD	19408-74-3	0.418	JBQ	0.0366	5.04	1
11031	1234678-HpCDD	35822-46-9	14.8	B	0.0572	5.04	1
11031	OCDD	3268-87-9	195	B	0.0726	10.1	1
11031	2378-TCDF	51207-31-9	0.197	J	0.0433	1.01	1
11031	12378-PeCDF	57117-41-6	0.257	JB	0.0277	5.04	1
11031	23478-PeCDF	57117-31-4	0.478	JB	0.0275	5.04	1
11031	123478-HxCDF	70648-26-9	0.190	JBQ	0.0279	5.04	1
11031	123678-HxCDF	57117-44-9	0.196	JB	0.0253	5.04	1
11031	123789-HxCDF	72918-21-9	0.180	JB	0.0304	5.04	1
11031	234678-HxCDF	60851-34-5	0.240	JB	0.0263	5.04	1
11031	1234678-HpCDF	67562-39-4	1.75	JB	0.0222	5.04	1
11031	1234789-HpCDF	55673-89-7	0.118	JBQ	0.0286	5.04	1
11031	OCDF	39001-02-0	4.42	JB	0.0405	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297585
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01305 SDG#: DX088-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297585
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 15:25

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01305 SDG#: DX088-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 07:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297586
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01405 SDG#: DX088-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297586
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01405 SDG#: DX088-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0300 JBQ	0.0223	1.09	1
11031	12378-PeCDD	40321-76-4	0.125 JBQ	0.0346	5.46	1
11031	123478-HxCDD	39227-28-6	0.165 JB	0.0343	5.46	1
11031	123678-HxCDD	57653-85-7	0.500 JB	0.0357	5.46	1
11031	123789-HxCDD	19408-74-3	0.482 JB	0.0344	5.46	1
11031	1234678-HpCDD	35822-46-9	14.0 B	0.0483	5.46	1
11031	OCDD	3268-87-9	173 B	0.0670	10.9	1
11031	2378-TCDF	51207-31-9	0.515 J	0.0652	1.09	1
11031	12378-PeCDF	57117-41-6	2.10 JB	0.0447	5.46	1
11031	23478-PeCDF	57117-31-4	0.428 JB	0.0423	5.46	1
11031	123478-HxCDF	70648-26-9	1.87 JB	0.0415	5.46	1
11031	123678-HxCDF	57117-44-9	0.363 JBQ	0.0412	5.46	1
11031	123789-HxCDF	72918-21-9	0.425 JB	0.0431	5.46	1
11031	234678-HxCDF	60851-34-5	0.212 JB	0.0362	5.46	1
11031	1234678-HpCDF	67562-39-4	1.29 JB	0.0239	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0858 JBQ	0.0312	5.46	1
11031	OCDF	39001-02-0	2.87 JB	0.0364	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297586
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01405 SDG#: DX088-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297586
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:55

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01405 SDG#: DX088-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 08:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297587
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01805 SDG#: DX088-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297587
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01805 SDG#: DX088-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.290	JBQ	0.0291	1.08	1
11031	12378-PeCDD	40321-76-4	0.560	JB	0.0642	5.40	1
11031	123478-HxCDD	39227-28-6	0.542	JB	0.0431	5.40	1
11031	123678-HxCDD	57653-85-7	1.34	JB	0.0474	5.40	1
11031	123789-HxCDD	19408-74-3	1.44	JB	0.0454	5.40	1
11031	1234678-HpCDD	35822-46-9	15.7	B	0.0555	5.40	1
11031	OCDD	3268-87-9	222	B	0.0826	10.8	1
11031	2378-TCDF	51207-31-9	1.64		0.139	1.08	1
11650	2378-TCDF-Conf	51207-31-9	1.04	JB	0.0452	1.08	1
11031	12378-PeCDF	57117-41-6	6.92	B	0.0796	5.40	1
11031	23478-PeCDF	57117-31-4	1.84	JB	0.0741	5.40	1
11031	123478-HxCDF	70648-26-9	7.67	B	0.0520	5.40	1
11031	123678-HxCDF	57117-44-9	1.47	JB	0.0502	5.40	1
11031	123789-HxCDF	72918-21-9	1.33	JB	0.0557	5.40	1
11031	234678-HxCDF	60851-34-5	0.969	JB	0.0470	5.40	1
11031	1234678-HpCDF	67562-39-4	3.23	JB	0.0345	5.40	1
11031	1234789-HpCDF	55673-89-7	0.743	JB	0.0415	5.40	1
11031	OCDF	39001-02-0	6.72	JB	0.0430	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-2378-TCDF-Conf	83	24 - 169
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297587
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01805 SDG#: DX088-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297587
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01805 SDG#: DX088-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 09:16	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11157001	06/09/2011 20:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297588
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18605 SDG#: DX088-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297588
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18605 SDG#: DX088-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0613	JB	0.0229	1.14	1
11031	12378-PeCDD	40321-76-4	0.323	JBQ	0.0376	5.71	1
11031	123478-HxCDD	39227-28-6	0.286	JB	0.0315	5.71	1
11031	123678-HxCDD	57653-85-7	1.09	JB	0.0325	5.71	1
11031	123789-HxCDD	19408-74-3	0.654	JB	0.0315	5.71	1
11031	1234678-HpCDD	35822-46-9	25.1	B	0.0584	5.71	1
11031	OCDD	3268-87-9	416	B	0.0657	11.4	1
11031	2378-TCDF	51207-31-9	0.672	J	0.0920	1.14	1
11031	12378-PeCDF	57117-41-6	2.87	JB	0.0411	5.71	1
11031	23478-PeCDF	57117-31-4	0.695	JB	0.0422	5.71	1
11031	123478-HxCDF	70648-26-9	1.36	JB	0.0345	5.71	1
11031	123678-HxCDF	57117-44-9	0.500	JB	0.0313	5.71	1
11031	123789-HxCDF	72918-21-9	0.377	JB	0.0399	5.71	1
11031	234678-HxCDF	60851-34-5	0.372	JB	0.0333	5.71	1
11031	1234678-HpCDF	67562-39-4	3.13	JB	0.0250	5.71	1
11031	1234789-HpCDF	55673-89-7	0.373	JB	0.0359	5.71	1
11031	OCDF	39001-02-0	9.12	JB	0.0422	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	106	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-186-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297588
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18605 SDG#: DX088-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-186-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-186-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297588
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:48

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18605 SDG#: DX088-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 10:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297589
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18705 SDG#: DX088-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	21.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297589
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18705 SDG#: DX088-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0507 JBQ	0.0287	1.24	1
11031	12378-PeCDD	40321-76-4	0.590 JB	0.0536	6.20	1
11031	123478-HxCDD	39227-28-6	0.760 JB	0.0492	6.20	1
11031	123678-HxCDD	57653-85-7	2.39 JB	0.0511	6.20	1
11031	123789-HxCDD	19408-74-3	1.43 JB	0.0480	6.20	1
11031	1234678-HpCDD	35822-46-9	56.3 B	0.0790	6.20	1
11031	OCDD	3268-87-9	532 B	0.0939	12.4	1
11031	2378-TCDF	51207-31-9	0.745 J	0.101	1.24	1
11031	12378-PeCDF	57117-41-6	1.75 JB	0.0508	6.20	1
11031	23478-PeCDF	57117-31-4	1.12 JB	0.0514	6.20	1
11031	123478-HxCDF	70648-26-9	0.716 JBQ	0.0385	6.20	1
11031	123678-HxCDF	57117-44-9	0.792 JB	0.0375	6.20	1
11031	123789-HxCDF	72918-21-9	0.667 JB	0.0421	6.20	1
11031	234678-HxCDF	60851-34-5	0.583 JB	0.0384	6.20	1
11031	1234678-HpCDF	67562-39-4	6.99 B	0.0365	6.20	1
11031	1234789-HpCDF	55673-89-7	0.665 JB	0.0417	6.20	1
11031	OCDF	39001-02-0	13.4 B	0.0444	12.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-187-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297589
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18705 SDG#: DX088-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-187-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-187-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297589
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:08

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18705 SDG#: DX088-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 11:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297590
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18805 SDG#: DX088-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297590
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18805 SDG#: DX088-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0307	U	0.0307	1.14	1
11031	12378-PeCDD	40321-76-4	0.155	JBQ	0.0406	5.70	1
11031	123478-HxCDD	39227-28-6	0.148	JBQ	0.0362	5.70	1
11031	123678-HxCDD	57653-85-7	0.583	JB	0.0398	5.70	1
11031	123789-HxCDD	19408-74-3	0.630	JB	0.0375	5.70	1
11031	1234678-HpCDD	35822-46-9	5.49	JB	0.0452	5.70	1
11031	OCDD	3268-87-9	60.1	B	0.0473	11.4	1
11031	2378-TCDF	51207-31-9	0.401	J	0.0829	1.14	1
11031	12378-PeCDF	57117-41-6	0.993	JB	0.0410	5.70	1
11031	23478-PeCDF	57117-31-4	0.502	JB	0.0444	5.70	1
11031	123478-HxCDF	70648-26-9	0.143	JBQ	0.0400	5.70	1
11031	123678-HxCDF	57117-44-9	0.233	JB	0.0327	5.70	1
11031	123789-HxCDF	72918-21-9	0.604	JB	0.0507	5.70	1
11031	234678-HxCDF	60851-34-5	0.231	JB	0.0399	5.70	1
11031	1234678-HpCDF	67562-39-4	1.20	JB	0.0211	5.70	1
11031	1234789-HpCDF	55673-89-7	0.135	JBQ	0.0455	5.70	1
11031	OCDF	39001-02-0	2.57	JB	0.0704	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	31	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-188-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297590
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18805 SDG#: DX088-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-188-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-188-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297590
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18805 SDG#: DX088-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 12:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297591
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18905 SDG#: DX088-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297591
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18905 SDG#: DX088-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0301	U	0.0301	1.17	1
11031	12378-PeCDD	40321-76-4	0.118	JBQ	0.0421	5.86	1
11031	123478-HxCDD	39227-28-6	0.117	JB	0.0400	5.86	1
11031	123678-HxCDD	57653-85-7	0.248	JB	0.0432	5.86	1
11031	123789-HxCDD	19408-74-3	0.318	JB	0.0358	5.86	1
11031	1234678-HpCDD	35822-46-9	4.53	JB	0.0467	5.86	1
11031	OCDD	3268-87-9	44.4	B	0.0512	11.7	1
11031	2378-TCDF	51207-31-9	0.695	J	0.107	1.17	1
11031	12378-PeCDF	57117-41-6	0.709	JB	0.0465	5.86	1
11031	23478-PeCDF	57117-31-4	0.461	JB	0.0481	5.86	1
11031	123478-HxCDF	70648-26-9	1.09	JB	0.0726	5.86	1
11031	123678-HxCDF	57117-44-9	0.208	JBQ	0.0562	5.86	1
11031	123789-HxCDF	72918-21-9	0.234	JB	0.0535	5.86	1
11031	234678-HxCDF	60851-34-5	0.263	JB	0.0361	5.86	1
11031	1234678-HpCDF	67562-39-4	1.10	JBQ	0.0310	5.86	1
11031	1234789-HpCDF	55673-89-7	0.121	JBQ	0.0475	5.86	1
11031	OCDF	39001-02-0	2.23	JBQ	0.0843	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	55	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	48	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	37	26 - 138
13C12-OCDF	25	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-189-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297591
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18905 SDG#: DX088-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-189-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-189-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297591
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:35

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18905 SDG#: DX088-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 13:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297592
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19105 SDG#: DX088-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297592
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19105 SDG#: DX088-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0744	JBQ	0.0361	1.09	1
11031	12378-PeCDD	40321-76-4	0.584	JBQ	0.0725	5.44	1
11031	123478-HxCDD	39227-28-6	0.946	JB	0.0794	5.44	1
11031	123678-HxCDD	57653-85-7	4.40	JB	0.0870	5.44	1
11031	123789-HxCDD	19408-74-3	2.35	JB	0.0684	5.44	1
11031	1234678-HpCDD	35822-46-9	106	B	0.140	5.44	1
11031	OCDD	3268-87-9	1,040	B	0.158	10.9	1
11031	2378-TCDF	51207-31-9	1.20		0.118	1.09	1
11650	2378-TCDF-Conf	51207-31-9	0.579	JB	0.0441	1.09	1
11031	12378-PeCDF	57117-41-6	0.288	JBQ	0.0543	5.44	1
11031	23478-PeCDF	57117-31-4	0.774	JBQ	0.0612	5.44	1
11031	123478-HxCDF	70648-26-9	3.19	JB	0.138	5.44	1
11031	123678-HxCDF	57117-44-9	1.20	JBQ	0.121	5.44	1
11031	123789-HxCDF	72918-21-9	0.459	JB	0.0807	5.44	1
11031	234678-HxCDF	60851-34-5	1.34	JB	0.0603	5.44	1
11031	1234678-HpCDF	67562-39-4	16.0	B	0.0823	5.44	1
11031	1234789-HpCDF	55673-89-7	1.82	JB	0.0864	5.44	1
11031	OCDF	39001-02-0	36.0	B	0.0886	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	56	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	29	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-191-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297592
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19105 SDG#: DX088-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-191-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-191-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297592
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:30

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19105 SDG#: DX088-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 13:59	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11157001	06/09/2011 22:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297593
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19205 SDG#: DX088-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297593
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19205 SDG#: DX088-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0180	U	0.0180	1.22	1
11031	12378-PeCDD	40321-76-4	0.274	JB	0.0450	6.11	1
11031	123478-HxCDD	39227-28-6	0.318	J	0.0674	6.11	1
11031	123678-HxCDD	57653-85-7	1.00	JB	0.0696	6.11	1
11031	123789-HxCDD	19408-74-3	0.714	JB	0.0638	6.11	1
11031	1234678-HpCDD	35822-46-9	19.8	B	0.0772	6.11	1
11031	OCDD	3268-87-9	259	B	0.0764	12.2	1
11031	2378-TCDF	51207-31-9	0.281	JBQ	0.0775	1.22	1
11031	12378-PeCDF	57117-41-6	0.238	JBQ	0.0317	6.11	1
11031	23478-PeCDF	57117-31-4	0.470	JBQ	0.0301	6.11	1
11031	123478-HxCDF	70648-26-9	0.693	JB	0.0498	6.11	1
11031	123678-HxCDF	57117-44-9	0.289	JB	0.0459	6.11	1
11031	123789-HxCDF	72918-21-9	0.426	JB	0.0453	6.11	1
11031	234678-HxCDF	60851-34-5	0.352	JB	0.0428	6.11	1
11031	1234678-HpCDF	67562-39-4	2.80	JB	0.0288	6.11	1
11031	1234789-HpCDF	55673-89-7	0.263	JBQ	0.0339	6.11	1
11031	OCDF	39001-02-0	6.14	JB	0.0406	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	75	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297593
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19205 SDG#: DX088-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-192-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-192-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297593
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 11:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19205 SDG#: DX088-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161003	06/15/2011 21:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11161003	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297594
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19305 SDG#: DX088-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297594
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19305 SDG#: DX088-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0316	JB	0.0272	1.07	1
11031	12378-PeCDD	40321-76-4	0.346	JB	0.0438	5.37	1
11031	123478-HxCDD	39227-28-6	0.551	JBQ	0.0562	5.37	1
11031	123678-HxCDD	57653-85-7	2.40	JB	0.0601	5.37	1
11031	123789-HxCDD	19408-74-3	1.29	JB	0.0537	5.37	1
11031	1234678-HpCDD	35822-46-9	54.1	B	0.0840	5.37	1
11031	OCDD	3268-87-9	556	B	0.0718	10.7	1
11031	2378-TCDF	51207-31-9	1.14		0.110	1.07	1
11650	2378-TCDF-Conf	51207-31-9	0.507	JB	0.0450	1.07	1
11031	12378-PeCDF	57117-41-6	0.829	JB	0.0429	5.37	1
11031	23478-PeCDF	57117-31-4	1.01	JB	0.0506	5.37	1
11031	123478-HxCDF	70648-26-9	2.39	JB	0.0841	5.37	1
11031	123678-HxCDF	57117-44-9	0.704	JBQ	0.0655	5.37	1
11031	123789-HxCDF	72918-21-9	0.386	JB	0.0588	5.37	1
11031	234678-HxCDF	60851-34-5	0.948	JB	0.0422	5.37	1
11031	1234678-HpCDF	67562-39-4	8.32	B	0.0415	5.37	1
11031	1234789-HpCDF	55673-89-7	0.944	JB	0.0613	5.37	1
11031	OCDF	39001-02-0	20.1	B	0.0609	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-2378-TCDF-Conf	73	24 - 169
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297594
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19305 SDG#: DX088-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-193-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-193-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297594
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 13:45

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19305 SDG#: DX088-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 18:55	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11157001	06/09/2011 23:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297595
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19405 SDG#: DX088-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	20.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297595
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19405 SDG#: DX088-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0398	JBQ	0.0258	1.24	1
11031	12378-PeCDD	40321-76-4	0.182	JB	0.0388	6.19	1
11031	123478-HxCDD	39227-28-6	0.181	JB	0.0415	6.19	1
11031	123678-HxCDD	57653-85-7	0.781	JB	0.0440	6.19	1
11031	123789-HxCDD	19408-74-3	0.699	JB	0.0432	6.19	1
11031	1234678-HpCDD	35822-46-9	10.4	B	0.0560	6.19	1
11031	OCDD	3268-87-9	105	B	0.0551	12.4	1
11031	2378-TCDF	51207-31-9	0.302	JQ	0.0747	1.24	1
11031	12378-PeCDF	57117-41-6	0.451	JBQ	0.0331	6.19	1
11031	23478-PeCDF	57117-31-4	0.389	JB	0.0348	6.19	1
11031	123478-HxCDF	70648-26-9	0.592	JB	0.0353	6.19	1
11031	123678-HxCDF	57117-44-9	0.294	JBQ	0.0297	6.19	1
11031	123789-HxCDF	72918-21-9	0.599	JBQ	0.0404	6.19	1
11031	234678-HxCDF	60851-34-5	0.262	JB	0.0320	6.19	1
11031	1234678-HpCDF	67562-39-4	1.49	JB	0.0241	6.19	1
11031	1234789-HpCDF	55673-89-7	0.136	JBQ	0.0462	6.19	1
11031	OCDF	39001-02-0	3.01	JBQ	0.0522	12.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297595
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19405 SDG#: DX088-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-194-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-194-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297595
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:00

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19405 SDG#: DX088-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 19:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297596
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19505 SDG#: DX088-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	20.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297596
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19505 SDG#: DX088-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	JB	0.0444	1.25	1
11031	12378-PeCDD	40321-76-4	1.07	JB	0.0971	6.23	1
11031	123478-HxCDD	39227-28-6	2.14	JB	0.109	6.23	1
11031	123678-HxCDD	57653-85-7	8.82	B	0.117	6.23	1
11031	123789-HxCDD	19408-74-3	4.72	JB	0.110	6.23	1
11031	1234678-HpCDD	35822-46-9	194	B	0.183	6.23	1
11031	OCDD	3268-87-9	1,940	B	0.181	12.5	1
11031	2378-TCDF	51207-31-9	2.44		0.210	1.25	1
11650	2378-TCDF-Conf	51207-31-9	1.03	JB	0.0679	1.25	1
11031	12378-PeCDF	57117-41-6	3.98	JB	0.0869	6.23	1
11031	23478-PeCDF	57117-31-4	1.80	JB	0.0879	6.23	1
11031	123478-HxCDF	70648-26-9	4.04	JB	0.119	6.23	1
11031	123678-HxCDF	57117-44-9	1.68	JB	0.105	6.23	1
11031	123789-HxCDF	72918-21-9	0.745	JB	0.112	6.23	1
11031	234678-HxCDF	60851-34-5	2.33	JB	0.0928	6.23	1
11031	1234678-HpCDF	67562-39-4	26.6	B	0.0613	6.23	1
11031	1234789-HpCDF	55673-89-7	2.97	JBQ	0.0933	6.23	1
11031	OCDF	39001-02-0	64.0	B	0.0886	12.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	80	24 - 169
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297596
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19505 SDG#: DX088-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-195-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-195-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297596
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:44

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19505 SDG#: DX088-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 20:48	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11157001	06/10/2011 00:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-196-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297597
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:05

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19605 SDG#: DX088-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-196-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297597
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:05

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19605 SDG#: DX088-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0330	J	0.0172	1.15	1
11031	12378-PeCDD	40321-76-4	0.202	JBQ	0.0375	5.74	1
11031	123478-HxCDD	39227-28-6	0.261	J	0.0590	5.74	1
11031	123678-HxCDD	57653-85-7	1.04	JB	0.0611	5.74	1
11031	123789-HxCDD	19408-74-3	0.938	JB	0.0576	5.74	1
11031	1234678-HpCDD	35822-46-9	22.0	B	0.0604	5.74	1
11031	OCDD	3268-87-9	266	B	0.0539	11.5	1
11031	2378-TCDF	51207-31-9	0.338	JB	0.0738	1.15	1
11031	12378-PeCDF	57117-41-6	0.357	JB	0.0343	5.74	1
11031	23478-PeCDF	57117-31-4	0.459	JB	0.0326	5.74	1
11031	123478-HxCDF	70648-26-9	0.572	JB	0.0445	5.74	1
11031	123678-HxCDF	57117-44-9	0.256	JB	0.0421	5.74	1
11031	123789-HxCDF	72918-21-9	0.791	JB	0.0415	5.74	1
11031	234678-HxCDF	60851-34-5	0.350	JB	0.0415	5.74	1
11031	1234678-HpCDF	67562-39-4	3.52	JB	0.0786	5.74	1
11031	1234789-HpCDF	55673-89-7	0.330	JB	0.0912	5.74	1
11031	OCDF	39001-02-0	10.5	JB	0.0395	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-196-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297597
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:05

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19605 SDG#: DX088-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-196-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-196-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297597
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:05

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19605 SDG#: DX088-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161003	06/15/2011 22:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11161003	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401A	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-197-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297598
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19705 SDG#: DX088-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-197-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297598
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19705 SDG#: DX088-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0743	JBQ	0.0258	1.15	1
11031	12378-PeCDD	40321-76-4	0.377	JB	0.0492	5.75	1
11031	123478-HxCDD	39227-28-6	0.425	JB	0.0631	5.75	1
11031	123678-HxCDD	57653-85-7	1.74	JB	0.0667	5.75	1
11031	123789-HxCDD	19408-74-3	1.53	JB	0.0593	5.75	1
11031	1234678-HpCDD	35822-46-9	34.0	B	0.0761	5.75	1
11031	OCDD	3268-87-9	339	B	0.0833	11.5	1
11031	2378-TCDF	51207-31-9	0.455	J	0.0852	1.15	1
11031	12378-PeCDF	57117-41-6	0.704	JB	0.0404	5.75	1
11031	23478-PeCDF	57117-31-4	0.494	JB	0.0427	5.75	1
11031	123478-HxCDF	70648-26-9	1.11	JB	0.0564	5.75	1
11031	123678-HxCDF	57117-44-9	0.483	JB	0.0466	5.75	1
11031	123789-HxCDF	72918-21-9	0.845	JB	0.0527	5.75	1
11031	234678-HxCDF	60851-34-5	0.551	JB	0.0404	5.75	1
11031	1234678-HpCDF	67562-39-4	5.59	JB	0.0369	5.75	1
11031	1234789-HpCDF	55673-89-7	0.442	JBQ	0.0531	5.75	1
11031	OCDF	39001-02-0	11.5	JB	0.0591	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-197-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297598
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19705 SDG#: DX088-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-197-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-197-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297598
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 09:20

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19705 SDG#: DX088-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11157001	06/08/2011 22:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11157001	06/06/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297599
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19805 SDG#: DX088-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297599
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19805 SDG#: DX088-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0191	U	0.0191	1.10	1
11031	12378-PeCDD	40321-76-4	1.06	JB	0.0621	5.48	1
11031	123478-HxCDD	39227-28-6	3.10	J	0.0900	5.48	1
11031	123678-HxCDD	57653-85-7	7.42	B	0.0932	5.48	1
11031	123789-HxCDD	19408-74-3	6.42	B	0.0877	5.48	1
11031	1234678-HpCDD	35822-46-9	243	B	0.170	5.48	1
11031	OCDD	3268-87-9	2,250	B	0.129	11.0	1
11031	2378-TCDF	51207-31-9	1.36	B	0.197	1.10	1
11650	2378-TCDF-Conf	51207-31-9	0.741	JB	0.0588	1.10	1
11031	12378-PeCDF	57117-41-6	1.07	JB	0.0643	5.48	1
11031	23478-PeCDF	57117-31-4	1.73	JB	0.0604	5.48	1
11031	123478-HxCDF	70648-26-9	5.94	B	0.0735	5.48	1
11031	123678-HxCDF	57117-44-9	1.98	JB	0.0697	5.48	1
11031	123789-HxCDF	72918-21-9	0.662	JB	0.0727	5.48	1
11031	234678-HxCDF	60851-34-5	2.81	JB	0.0686	5.48	1
11031	1234678-HpCDF	67562-39-4	41.7	B	0.0690	5.48	1
11031	1234789-HpCDF	55673-89-7	3.64	JB	0.0830	5.48	1
11031	OCDF	39001-02-0	106	B	0.0448	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-2378-TCDF-Conf	88	24 - 169
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	83	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-198-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-198-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297599
LLI Group # 1248472
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:40

Submitted: 05/25/2011 09:15
Reported: 06/22/2011 23:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19805 SDG#: DX088-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

19805 SDG#: DX088-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161003	06/15/2011 23:02	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11161003	06/18/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11161003	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401A	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248472
Reported: 06/22/11 at 11:09 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11154162401A	Sample number(s): 6297580-6297583,6297589-6297591,6297594-6297597								
Moisture Content by 160.3					100		80-120		
Batch number: 11161162401A	Sample number(s): 6297584-6297588,6297592-6297593,6297598-6297599								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11157001	Sample number(s): 6297581-6297592,6297594-6297596,6297598								
2378-TCDD	0.0234 J	0.0182	1.00	ng/kg	83		67-158		
12378-PeCDD	0.0300 J	0.0174	5.00	ng/kg	85		70-142		
123478-HxCDD	0.0257 J	0.0133	5.00	ng/kg	86		70-164		
123678-HxCDD	0.0444 J	0.0140	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0357 J	0.0137	5.00	ng/kg	86		64-162		
1234678-HpCDD	0.217 J	0.0203	5.00	ng/kg	86		70-140		
OCDD	0.526 J	0.0179	10.0	ng/kg	85		78-144		
2378-TCDF	0.0193 U	0.0193	1.00	ng/kg	89		75-158		
2378-TCDF-Conf	0.0363 J	0.0312	1.00	ng/kg					
12378-PeCDF	0.0384 J	0.0105	5.00	ng/kg	87		80-134		
23478-PeCDF	0.0573 J	0.0105	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0606 J	0.0135	5.00	ng/kg	88		72-134		
123678-HxCDF	0.0517 J	0.0118	5.00	ng/kg	87		84-130		
123789-HxCDF	0.0639 J	0.0148	5.00	ng/kg	87		78-130		
234678-HxCDF	0.0718 J	0.0119	5.00	ng/kg	87		70-156		
1234678-HpCDF	0.133 J	0.00720	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0524 J	0.0122	5.00	ng/kg	86		78-138		
OCDF	0.247 J	0.0314	10.0	ng/kg	87		63-170		
Batch number: 11158001	Sample number(s): 6297580								
2378-TCDD	0.0126 U	0.0126	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0396 J	0.0120	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0241 J	0.0104	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0485 J	0.0108	5.00	ng/kg	100		76-134		
123789-HxCDD	0.0535 J	0.0106	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.226 J	0.0145	5.00	ng/kg	99		70-140		
OCDD	0.430 J	0.0177	10.0	ng/kg	99		78-144		
2378-TCDF	0.0170 J	0.0113	1.00	ng/kg	105		75-158		
2378-TCDF-Conf	0.0250 J	0.0242	1.00	ng/kg					
12378-PeCDF	0.0353 J	0.00640	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0728 J	0.00680	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0553 J	0.00980	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0467 J	0.00830	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0693 J	0.0111	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0579 J	0.00900	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.122 J	0.00650	5.00	ng/kg	100		82-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248472
Reported: 06/22/11 at 11:09 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.0726	J	0.0116	5.00	ng/kg	100		78-138		
OCDF	0.206	J	0.0225	10.0	ng/kg	101		63-170		
Batch number: 11161003	Sample number(s): 6297593,6297597,6297599									
2378-TCDD	0.0135	U	0.0135	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0243	J	0.0152	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0185	U	0.0185	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0462	J	0.0185	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0742	J	0.0175	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.405	J	0.0337	5.00	ng/kg	89		70-140		
OCDD	0.938	J	0.0266	10.0	ng/kg	91		78-144		
2378-TCDF	0.0158	J	0.0124	1.00	ng/kg	90		75-158		
2378-TCDF-Conf	0.0540	J	0.0140	1.00	ng/kg					
12378-PeCDF	0.0379	J	0.00810	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0757	J	0.00770	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0779	J	0.0146	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0683	J	0.0132	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0596	J	0.0138	5.00	ng/kg	92		78-130		
234678-HxCDF	0.101	J	0.0126	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.294	J	0.0154	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.112	J	0.0202	5.00	ng/kg	92		78-138		
OCDF	0.377	J	0.0341	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11154162401A	Sample number(s): 6297580-6297583,6297589-6297591,6297594-6297597					BKG: P297567			
Moisture Content by 160.3						20.3	20.3	0	20
Batch number: 11161162401A	Sample number(s): 6297584-6297588,6297592-6297593,6297598-6297599					BKG: P297560			
Moisture Content by 160.3						12.5	12.5	0	20
Batch number: 11158001	Sample number(s): 6297580 UNSPK: P298884								
2378-TCDD	97	96	67-158	1	25				
12378-PeCDD	101	100	70-142	0	25				
123478-HxCDD	100	101	70-164	1	25				
123678-HxCDD	101	98	76-134	2	25				
123789-HxCDD	100	98	64-162	2	25				
1234678-HpCDD	99	99	70-140	0	25				
OCDD	98	97	78-144	1	25				
2378-TCDF	106	111	75-158	5	25				
12378-PeCDF	99	100	80-134	2	25				
23478-PeCDF	101	99	68-160	2	25				
123478-HxCDF	100	100	72-134	1	25				
123678-HxCDF	100	99	84-130	0	25				
123789-HxCDF	99	98	78-130	0	25				
234678-HxCDF	102	100	70-156	1	25				
1234678-HpCDF	100	97	82-122	3	25				
1234789-HpCDF	101	100	78-138	0	25				
OCDF	101	100	63-170	1	25				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248472
Reported: 06/22/11 at 11:09 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11157001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6297581	79	71	74	75	73	74
6297582	74	67	71	73	70	72
6297583	78	65	72	75	73	76
6297584	76	66	71	70	73	71
6297585	71	61	65	66	65	65
6297586	78	64	68	66	70	71
6297587	78	68	72	70	71	73
6297588	90	78	79	83	78	76
6297589	76	63	71	69	70	71
6297590	72	57	61	72	62	54
6297591	71	55	32	40	59	48
6297592	71	54	28	32	64	55
6297594	73	56	33	41	64	51
6297595	74	59	63	70	67	60
6297596	79	64	61	68	71	72
6297598	73	57	52	60	66	61
Blank	77	70	66	76	76	70
OPR	68	65	68	74	71	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6297581	73	64	52	92	73	78
6297582	71	56	48	90	70	74
6297583	68	61	47	92	67	77
6297584	65	61	49	86	69	72
6297585	56	53	43	87	64	63
6297586	62	56	47	89	67	71
6297587	61	58	46	90	72	73
6297588	81	64	51	106	83	84
6297589	62	60	45	89	65	70
6297590	80	43	31	90	65	70
6297591	49	37	25	88	63	59
6297592	41	44	29	78	60	57
6297594	52	43	32	88	63	65
6297595	76	47	38	87	64	69
6297596	74	56	44	93	68	73
6297598	64	53	39	89	63	63
Blank	88	60	47	101	77	82
OPR	79	56	46	96	69	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248472
Reported: 06/22/11 at 11:09 PM

Surrogate Quality Control

6297581	75	77	69	57	79	72
6297582	73	74	66	54	71	71
6297583	76	77	67	53	75	68
6297584	72	74	67	53	74	69
6297585	64	63	57	46	69	64
6297586	70	70	64	50	76	66
6297587	69	71	63	49	77	70
6297588	83	85	74	61	85	84
6297589	71	71	64	48	74	65
6297590	69	71	63	50	65	67
6297591	59	67	59	46	65	65
6297592	56	67	59	46	67	64
6297594	65	70	63	51	66	68
6297595	70	70	62	53	70	68
6297596	71	75	67	57	74	70
6297598	64	70	66	51	69	65
Blank	82	83	77	61	69	75
OPR	77	77	69	57	62	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6297581	
6297582	
6297583	
6297584	
6297585	
6297586	
6297587	83
6297588	
6297589	
6297590	
6297591	
6297592	74
6297594	73
6297595	
6297596	80
6297598	
Blank	75
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11158001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6297580	69	66	69	70	70	71
Blank	63	61	64	73	68	68
MS	66	65	67	73	71	69
MSD	78	71	74	86	77	66
OPR	62	63	66	72	69	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248472
Reported: 06/22/11 at 11:09 PM

Surrogate Quality Control

(CRS)

6297580	67	67	60	78	66	72
Blank	87	62	51	91	69	77
MS	77	60	51	82	68	75
MSD	95	59	51	93	79	86
OPR	77	59	52	84	70	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6297580	69	72	70	62	68	65
Blank	74	76	76	67	56	67
MS	73	74	69	60	62	69
MSD	85	85	79	68	70	79
OPR	71	73	69	61	57	64
Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6297580	65					
Blank	54					
MS						
MSD						
OPR						
Limits:	24-169					

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11161003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6297593	75	70	64	67	73	82
6297597	76	70	65	66	70	79
6297599	88	81	76	76	79	88
Blank	69	68	65	69	74	80
OPR	61	62	63	67	68	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6297593	76	76	75	85	76	78
6297597	72	73	73	86	76	74
6297599	83	83	83	97	88	84
Blank	83	77	76	87	75	79
OPR	79	71	70	78	66	72
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6297593	75	78	83	82	69	71
6297597	72	75	79	79	71	71

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248472
Reported: 06/22/11 at 11:09 PM

Surrogate Quality Control

6297599	81	85	89	90	81	81
Blank	77	80	84	86	63	69
OPR	70	72	78	78	55	62
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6297593	
6297597	
6297599	88
Blank	77
OPR	
Limits:	24-169

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1248472 6297580-99

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS										SS ONLY		SECONDARY FOR ALL LOCATIONS										1
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/SA7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																												
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-008-SA5DN-SS-0.0-0.5	5.23.11	1700	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X												
SL-008-SA5DN-SS-0.0-0.5	5.23.11	1700	SOIL	NONE	1-SS sleeve			X	X																			
SL-009-SA5DN-SS-0.0-0.5	5.23.11	1720	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X												
SL-009-SA5DN-SS-0.0-0.5	5.23.11	1720	SOIL	NONE	1-SS sleeve			X	X																			
SL-010-SA5DN-SS-0.0-0.5	5.23.11	1640	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X												
SL-010-SA5DN-SS-0.0-0.5	5.23.11	1640	SOIL	NONE	1-SS sleeve			X	X																			
SL-011-SA5DN-SS-0.0-0.5	5.23.11	1622	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X												
SL-011-SA5DN-SS-0.0-0.5	5.23.11	1622	SOIL	NONE	1-SS sleeve			X	X																			
SL-012-SA5DN-SS-0.0-0.5	5.23.11	1545	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SL-012-SA5DN-SS-0.0-0.5	5.23.11	1545	SOIL	NONE	1-SS sleeve			X	X																			
SL-013-SA5DN-SS-0.0-0.5	5.23.11	1525	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SL-013-SA5DN-SS-0.0-0.5	5.23.11	1525	SOIL	NONE	1-SS sleeve			X	X																			
SL-014-SA5DN-SS-0.0-0.5	5.23.11	1455	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SL-014-SA5DN-SS-0.0-0.5	5.23.11	1455	SOIL	NONE	1-SS sleeve			X	X																			
SL-018-SA5DN-SS-0.0-0.5	5.23.11	1435	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
SL-018-SA5DN-SS-0.0-0.5	5.23.11	1435	SOIL	NONE	1-SS sleeve			X	X																			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/24/2011 / 1700	Barry Hoch SIESM 915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1442 0887, 0898,0902 8695 1441 8019	

13013 1248472 6297580-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	1-SS sleeve			X	X																	
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-SS sleeve			X	X																	
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-SS sleeve			X	X																	
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-SS sleeve			X	X																	
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	1-SS sleeve			X	X																	
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-SS sleeve			X	X																	
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-SS sleeve			X	X																	
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0906	SOIL	NONE	1-SS sleeve			X	X																	
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	1-SS sleeve			X	X																	
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1008	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1008	SOIL	NONE	1-SS sleeve			X	X																	

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	05/24/2011 / 1700	5/25/11 915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1442 0887, 0898,0902 8695 1441 8019	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/25/2011
Group Number: 1248478
SDG: DE161
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-203-SA5DN-SS-0.0-0.5 Soil	6297641
SL-204-SA5DN-SS-0.0-0.5 Soil	6297642
SL-139-SA5DN-SB-2.0-3.0 Soil	6297643
SL-145-SA5DN-SB-2.0-3.0 Soil	6297644
SL-146-SA5DN-SB-2.0-3.0 Soil	6297645
SL-150-SA5DN-SB-4.0-5.0 Soil	6297646
TB-052411 Water	6297647
EB06-SA5DN-SS-052411 Water	6297648
EB05-SA5DN-SS-052311 Water	6297649

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297641
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-203- SDG#: DE161-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	53	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297641
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-203- SDG#: DE161-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.6		0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	14		0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	64		0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	77		0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	110		0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	26		0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	49		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	78		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	9.0		0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	140		0.78	2.0		1
10138	Fluorene	86-73-7	4.1		0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	27		0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.78	2.0		1
10138	Naphthalene	91-20-3	2.6		0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	62		0.78	2.0		1
10138	Pyrene	129-00-0	120		0.78	2.0		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(a)pyrene

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.93	U	0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U	0.93	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297641
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-203- SDG#: DE161-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.15	J	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.94		0.077	0.40		1
01363	p,p-DDT	50-29-3	2.6		0.077	0.40		1
01363	Delta BHC	319-86-8	0.48	U	0.48	0.48		1
01363	Dieldrin	60-57-1	0.71		0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.56		0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	24	U	24	78		20
10225	Aroclor 5442	12642-23-8	24	U	24	78		20
10225	Aroclor 5460	11126-42-4	24	U	24	78		20
10225	PCB-1016	12674-11-2	7.8	U	7.8	40		20
10225	PCB-1221	11104-28-2	7.8	U	7.8	40		20
10225	PCB-1232	11141-16-5	7.8	U	7.8	40		20
10225	PCB-1242	53469-21-9	7.8	U	7.8	40		20
10225	PCB-1248	12672-29-6	7.8	U	7.8	40		20
10225	PCB-1254	11097-69-1	7.8	U	7.8	40		20
10225	PCB-1260	11096-82-5	9.2	U	9.2	40		20
10225	PCB-1262	37324-23-5	7.8	U	7.8	40		20
10225	PCB-1268	11100-14-4	7.8	U	7.8	40		20
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297641
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-203- SDG#: DE161-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,500		5.80	23.1		1
07914	Boron	7440-42-8	6.12		1.03	5.77		1
01650	Calcium	7440-70-2	6,760		7.07	23.1		1
01654	Iron	7439-89-6	28,300		5.43	23.1		1
01656	Lithium	7439-93-2	22.3		0.25	2.3		1
01657	Magnesium	7439-95-4	6,380		2.93	11.5		1
06958	Manganese	7439-96-5	468		0.0900	0.577		1
10145	Phosphorus	7723-14-0	483		0.646	11.5		1
01662	Potassium	7440-09-7	7,390		20.8	57.7		1
01667	Sodium	7440-23-5	79.5	J	43.0	115		1
07968	Strontium	7440-24-6	33.4		0.0715	0.577		1
06969	Tin	7440-31-5	2.70	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,420		0.438	1.15		1
10146	Zirconium	7440-67-7	6.81		0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.254		0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.97		0.0923	0.461		2
06126	Barium	7440-39-3	95.5		0.125	0.461		2
06127	Beryllium	7440-41-7	0.546		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.370		0.0461	0.115		2
06131	Chromium	7440-47-3	21.8		0.138	0.461		2
06132	Cobalt	7440-48-4	7.63		0.0231	0.115		2
06133	Copper	7440-50-8	13.7		0.0761	0.461		2
06135	Lead	7439-92-1	10.3		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.374		0.0577	0.115		2
06139	Nickel	7440-02-0	14.9		0.115	0.461		2
06141	Selenium	7782-49-2	0.168	J	0.0461	0.461		2
06142	Silver	7440-22-4	0.0372	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.272		0.0346	0.115		2
06148	Vanadium	7440-62-2	41.2		0.0254	0.115		2
06149	Zinc	7440-66-6	59.3		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0114	J	0.0033	0.116		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	52.6		10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.24	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297641
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-203- SDG#: DE161-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.58	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	15.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011	04:14	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011	19:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011	07:15	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011	15:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011	02:32	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111530010A	06/03/2011	22:32	Richard A Shober	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011	03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111530010A	06/02/2011	16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011	22:00	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011	04:38	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297641
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-203- SDG#: DE161-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:38	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201A	06/02/2011 11:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201A	06/08/2011 08:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11148243201A	06/01/2011 13:50	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201A	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201A	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297642
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-204- SDG#: DE161-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	58	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297642
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-204- SDG#: DE161-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	4.2		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.89	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	2.3		0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	1.1	J	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.78	2.0		1
10138	Pyrene	129-00-0	1.0	J	0.78	2.0		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U	5.1	11		1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	89	U	89	290		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20		1

The recovery for dinoseb in the LCS is outside the project QC window. Since the recovery is within our laboratory statistical window, the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19		1

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Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297642
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-204- SDG#: DE161-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93	U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.31	J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.17	J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40		1
01363	Endrin	72-20-8	0.077	U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077	U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,700		5.90	23.4		1
07914	Boron	7440-42-8	6.14		1.04	5.86		1
01650	Calcium	7440-70-2	13,100		7.19	23.4		1
01654	Iron	7439-89-6	34,100		27.6	117		5
01656	Lithium	7439-93-2	28.9		0.26	2.3		1
01657	Magnesium	7439-95-4	7,950		2.98	11.7		1
06958	Manganese	7439-96-5	513		0.0914	0.586		1
10145	Phosphorus	7723-14-0	426		0.657	11.7		1
01662	Potassium	7440-09-7	6,760		21.1	58.6		1
01667	Sodium	7440-23-5	103	J	43.7	117		1

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Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297642
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-204- SDG#: DE161-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	40.3		0.0727	0.586		1
06969	Tin	7440-31-5	2.85	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,640		0.445	1.17		1
10146	Zirconium	7440-67-7	8.04		0.985	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0696	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.36		0.0929	0.464		2
06126	Barium	7440-39-3	152		0.125	0.464		2
06127	Beryllium	7440-41-7	0.834		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.355		0.0464	0.116		2
06131	Chromium	7440-47-3	34.0		0.139	0.464		2
06132	Cobalt	7440-48-4	11.3		0.0232	0.116		2
06133	Copper	7440-50-8	18.1		0.0766	0.464		2
06135	Lead	7439-92-1	10.9		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.412		0.0580	0.116		2
06139	Nickel	7440-02-0	22.6		0.116	0.464		2
06141	Selenium	7782-49-2	0.173	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0635	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.403		0.0348	0.116		2
06148	Vanadium	7440-62-2	64.0		0.0255	0.116		2
06149	Zinc	7440-66-6	79.4		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297642
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-204- SDG#: DE161-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 04:39	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 20:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111450020A	05/27/2011 16:13	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111460023A	06/03/2011 04:39	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111530010A	06/03/2011 22:50	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	111460023A	05/27/2011 03:00	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111530010A	06/02/2011 16:35	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111450020A	05/25/2011 22:00	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011 19:11	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:48	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2

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Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297642
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-204- SDG#: DE161-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201A	06/02/2011 12:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201A	06/08/2011 03:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11148243201A	06/01/2011 14:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201A	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201A	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297643
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-139- SDG#: DE161-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.8	9.3		1.04
06192	Benzene	71-43-2	0.12	U	0.12	4.7		1.04
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.7		1.04
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.7		1.04
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.7		1.04
06192	Bromoform	75-25-2	0.47	U	0.47	4.7		1.04
06192	Bromomethane	74-83-9	0.29	U	0.29	4.7		1.04
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1.04
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.7		1.04
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.7		1.04
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.7		1.04
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.7		1.04
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.7		1.04
06192	Chloroethane	75-00-3	0.15	U	0.15	4.7		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.7		1.04
06192	Chloroform	67-66-3	0.14	U	0.14	4.7		1.04
06192	Chloromethane	74-87-3	0.38	U	0.38	4.7		1.04
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.7		1.04
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.7		1.04
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.82	U	0.82	4.7		1.04
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.7		1.04
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.7		1.04
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.7		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.7		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.7		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.7		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.7		1.04
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.7		1.04
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.7		1.04
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.7		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.7		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.7		1.04
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.7		1.04
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.7		1.04
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.7		1.04
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.7		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.7		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.7		1.04
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.7		1.04
06192	Freon 113	76-13-1	0.13	U	0.13	4.7		1.04
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.04
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.7		1.04
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1.04
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.7		1.04
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.7		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.7		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1.04
06192	Methylene Chloride	75-09-2	1.3	J	0.28	4.7		1.04
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.7		1.04

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Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297643
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-139- SDG#: DE161-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.7		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.7		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.7		1.04
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.7		1.04
06192	Toluene	108-88-3	0.09	U	0.09	4.7		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.7		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.7		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.7		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.7		1.04
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.7		1.04
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.7		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.7		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.47	U	0.47	4.7		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.7		1.04
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.7		1.04
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.7		1.04
06192	o-Xylene	95-47-6	0.20	U	0.20	4.7		1.04
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.9
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.6	U	18.6	37.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297643
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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-139- SDG#: DE161-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1

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SL-139-SA5DN-SB-2.0-3.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1

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SL-139-SA5DN-SB-2.0-3.0

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Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.78	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.49	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.70	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.3	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
	The method blank is contaminated. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297643
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-139- SDG#: DE161-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.50	21.9		1
07914	Boron	7440-42-8	0.974	U	0.974	5.47		1
01650	Calcium	7440-70-2	3,710		6.71	21.9		1
01654	Iron	7439-89-6	26,100		5.15	21.9		1
01656	Lithium	7439-93-2	38.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,320		2.78	10.9		1
06958	Manganese	7439-96-5	428		0.0853	0.547		1
10145	Phosphorus	7723-14-0	341		0.613	10.9		1
01662	Potassium	7440-09-7	2,230		19.7	54.7		1
01667	Sodium	7440-23-5	131		40.8	109		1
07968	Strontium	7440-24-6	26.9		0.0678	0.547		1
06969	Tin	7440-31-5	2.82	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,430		0.416	1.09		1
10146	Zirconium	7440-67-7	5.91		0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0795	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.3		0.0893	0.446		2
06126	Barium	7440-39-3	115		0.121	0.446		2
06127	Beryllium	7440-41-7	0.881		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.105	J	0.0446	0.112		2
06131	Chromium	7440-47-3	28.8		0.134	0.446		2
06132	Cobalt	7440-48-4	7.94		0.0223	0.112		2
06133	Copper	7440-50-8	9.94		0.0737	0.446		2
06135	Lead	7439-92-1	8.13		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.385		0.0558	0.112		2
06139	Nickel	7440-02-0	18.9		0.112	0.446		2
06141	Selenium	7782-49-2	0.127	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0829	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.230		0.0335	0.112		2
06148	Vanadium	7440-62-2	48.6		0.0246	0.112		2
06149	Zinc	7440-66-6	52.2		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297643
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-139- SDG#: DE161-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.93	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-139-SA5DN-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 18:02	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 21:15	Sara E Johnson	24.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114524511	05/25/2011 12:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114524511	05/25/2011 12:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 16:37	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 05:04	Ryan P Byrne	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297643
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-139- SDG#: DE161-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 20:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34A	05/31/2011 17:37	Elizabeth J Marin	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:35	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/03/2011 21:33	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 03:07	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111530010A	06/03/2011 23:08	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111530010A	06/02/2011 16:35	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111480003A	06/04/2011 19:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111450035A	05/26/2011 02:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111460011A	05/27/2011 03:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 08:07	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111480003A	05/31/2011 06:15	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111450035A	05/25/2011 17:55	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111460011A	05/26/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2

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Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297643
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-139- SDG#: DE161-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201A	06/02/2011 12:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11152621201A	06/02/2011 12:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201A	06/08/2011 03:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11148243201A	06/03/2011 13:05	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201A	06/03/2011 09:04	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201A	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201A	06/03/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201A	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297644
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-145- SDG#: DE161-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8	J	6.9	8.2		0.97
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.97
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.97
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.97
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.97
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.97
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.97
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.97
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.97
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.97
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.97
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.97
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.97
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.97
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.97
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.97
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.97
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.97
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.97
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.97
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.97
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.97
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.97
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.97
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.97
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.97
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.97
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.97
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.97
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.97
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.97
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.97
06192	Methylene Chloride	75-09-2	1.0	J	0.25	4.1		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.97

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Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297644
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-145- SDG#: DE161-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.97
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.97
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.97
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.97
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.97
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.97
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		25.99
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1

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SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297644
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-145- SDG#: DE161-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1

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Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297644
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-145- SDG#: DE161-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.33	21.2		1
07914	Boron	7440-42-8	0.944	U	0.944	5.30		1
01650	Calcium	7440-70-2	3,360		6.50	21.2		1
01654	Iron	7439-89-6	26,900		4.99	21.2		1
01656	Lithium	7439-93-2	36.3		0.23	2.1		1
01657	Magnesium	7439-95-4	6,150		2.69	10.6		1
06958	Manganese	7439-96-5	438		0.0827	0.530		1
10145	Phosphorus	7723-14-0	372		0.594	10.6		1
01662	Potassium	7440-09-7	2,700		19.1	53.0		1
01667	Sodium	7440-23-5	109		39.6	106		1
07968	Strontium	7440-24-6	24.8		0.0657	0.530		1
06969	Tin	7440-31-5	2.75	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,550		0.403	1.06		1
10146	Zirconium	7440-67-7	6.18		0.891	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0743	J	0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0848	0.424		2
06126	Barium	7440-39-3	119		0.115	0.424		2
06127	Beryllium	7440-41-7	0.674		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.114		0.0424	0.106		2
06131	Chromium	7440-47-3	24.6		0.127	0.424		2

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Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297644
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-145- SDG#: DE161-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	7.60	0.0212	0.106		2
06133	Copper	7440-50-8	9.77	0.0700	0.424		2
06135	Lead	7439-92-1	6.42	0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.537	0.0530	0.106		2
06139	Nickel	7440-02-0	17.3	0.106	0.424		2
06141	Selenium	7782-49-2	0.135 J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0523 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.293	0.0318	0.106		2
06148	Vanadium	7440-62-2	46.0	0.0233	0.106		2
06149	Zinc	7440-66-6	55.0	0.594	3.18		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.85	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.8		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69 J	0.21	1.1		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	5.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-145-SA5DN-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297644
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-145- SDG#: DE161-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 18:24	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 21:35	Sara E Johnson	25.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:37	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114524511	05/25/2011 12:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114524511	05/25/2011 12:37	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 05:29	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 21:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111530010A	06/03/2011 23:27	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111530010A	06/02/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297644
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-145- SDG#: DE161-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201A	06/02/2011 13:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201A	06/08/2011 04:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11148243201A	06/03/2011 13:16	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201A	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201A	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297645
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-146- SDG#: DE161-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.5	J	7.4	8.8		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.94
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.94
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.94
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.94
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.94
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.94
06192	Methylene Chloride	75-09-2	1.2	J	0.26	4.4		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.94

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Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297645
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-146- SDG#: DE161-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.94
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.94
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.94
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.32
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297645
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-146- SDG#: DE161-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297645
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-146- SDG#: DE161-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.65	22.5		1
07914	Boron	7440-42-8	1.00	U	1.00	5.62		1
01650	Calcium	7440-70-2	5,150		6.89	22.5		1
01654	Iron	7439-89-6	29,900		26.5	112		5
01656	Lithium	7439-93-2	33.1		0.25	2.2		1
01657	Magnesium	7439-95-4	7,070		2.85	11.2		1
06958	Manganese	7439-96-5	311		0.0876	0.562		1
10145	Phosphorus	7723-14-0	383		0.629	11.2		1
01662	Potassium	7440-09-7	2,490		20.2	56.2		1
01667	Sodium	7440-23-5	129		41.9	112		1
07968	Strontium	7440-24-6	28.4		0.0696	0.562		1
06969	Tin	7440-31-5	2.96	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,610		0.427	1.12		1
10146	Zirconium	7440-67-7	5.76		0.944	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0701	U	0.0701	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.1		0.0935	0.467		2
06126	Barium	7440-39-3	170		0.126	0.467		2
06127	Beryllium	7440-41-7	0.998		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.0604	J	0.0467	0.117		2
06131	Chromium	7440-47-3	47.5		0.140	0.467		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297645
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-146- SDG#: DE161-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	10.0	0.0234	0.117		2
06133	Copper	7440-50-8	20.1	0.0771	0.467		2
06135	Lead	7439-92-1	7.90	0.0121	0.234		2
06138	Molybdenum	7439-98-7	0.103 J	0.0584	0.117		2
06139	Nickel	7440-02-0	24.3	0.117	0.467		2
06141	Selenium	7782-49-2	0.0909 J	0.0467	0.467		2
06142	Silver	7440-22-4	0.552	0.0140	0.117		2
06145	Thallium	7440-28-0	0.254	0.0350	0.117		2
06148	Vanadium	7440-62-2	51.9	0.0257	0.117		2
06149	Zinc	7440-66-6	74.5	0.654	3.50		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051 J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62 J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.04	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-146-SA5DN-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297645
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-146- SDG#: DE161-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 18:46	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 21:54	Sara E Johnson	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:40	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114524511	05/25/2011 12:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114524511	05/25/2011 12:40	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 05:54	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 21:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111530010A	06/04/2011 01:36	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111530010A	06/02/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011 19:15	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297645
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-146- SDG#: DE161-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201A	06/02/2011 13:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201A	06/08/2011 04:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11148243201A	06/01/2011 14:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201A	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201A	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297646
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-150- SDG#: DE161-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.1		7.6	9.1		1.05
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.05
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.05
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.05
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.05
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.05
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.05
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.05
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.05
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.05
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.05
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.05
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.05
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.5		1.05
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.05
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.05
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.05
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.05
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.05
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.05
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.05
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.05
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.05
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.05
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.05
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.05
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.05
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.05
06192	Methylene Chloride	75-09-2	1.0	J	0.27	4.5		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.05

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297646
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-150- SDG#: DE161-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.05
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.05
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.05
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.05
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.05
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.05
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.05
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.05
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Freon 133a.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297646
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-150- SDG#: DE161-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297646
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-150- SDG#: DE161-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		5.24	20.8		1
07914	Boron	7440-42-8	0.927	U	0.927	5.21		1
01650	Calcium	7440-70-2	4,130		6.39	20.8		1
01654	Iron	7439-89-6	29,900		24.5	104		5
01656	Lithium	7439-93-2	41.1		0.23	2.1		1
01657	Magnesium	7439-95-4	6,940		2.65	10.4		1
06958	Manganese	7439-96-5	356		0.0813	0.521		1
10145	Phosphorus	7723-14-0	490		0.583	10.4		1
01662	Potassium	7440-09-7	4,150		18.8	52.1		1
01667	Sodium	7440-23-5	171		38.9	104		1
07968	Strontium	7440-24-6	25.5		0.0646	0.521		1
06969	Tin	7440-31-5	2.89	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,680		0.396	1.04		1
10146	Zirconium	7440-67-7	6.41		0.875	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0631	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.91		0.0841	0.421		2
06126	Barium	7440-39-3	127		0.114	0.421		2
06127	Beryllium	7440-41-7	0.503		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0932	J	0.0421	0.105		2
06131	Chromium	7440-47-3	28.6		0.126	0.421		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297646
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-150- SDG#: DE161-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	9.22	0.0210	0.105		2
06133	Copper	7440-50-8	15.8	0.0694	0.421		2
06135	Lead	7439-92-1	5.23	0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.544	0.0526	0.105		2
06139	Nickel	7440-02-0	22.5	0.105	0.421		2
06141	Selenium	7782-49-2	0.126 J	0.0421	0.421		2
06142	Silver	7440-22-4	0.0126 U	0.0126	0.105		2
06145	Thallium	7440-28-0	0.377	0.0316	0.105		2
06148	Vanadium	7440-62-2	37.8	0.0231	0.105		2
06149	Zinc	7440-66-6	63.8	0.589	3.16		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1	0.87	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.5		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54 J	0.22	1.1		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.97	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	7.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-150-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297646
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-150- SDG#: DE161-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111471AA	05/27/2011 19:08	Chelsea B Eastep	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 22:14	Sara E Johnson	26.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114524511	05/25/2011 12:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114524511	05/25/2011 12:45	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114524511	05/25/2011 12:42	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 06:19	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 22:25	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111530010A	06/04/2011 01:55	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111530010A	06/02/2011 16:35	JoElla L Rice	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011 19:19	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 05:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297646
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-150- SDG#: DE161-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201A	06/02/2011 13:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201A	06/08/2011 09:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11148243201A	06/01/2011 14:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201A	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201A	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-052411 Water
SSFL Area IV Collocated Soil Sampling
TB-052411

LLI Sample # WW 6297647
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:00

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB524 SDG#: DE161-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-052411 Water
SSFL Area IV Collocated Soil Sampling
TB-052411

LLI Sample # WW 6297647
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:00

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB524 SDG#: DE161-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111471AA	05/27/2011 22:05	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111461AA	05/26/2011 12:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111461AA	05/26/2011 12:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111471AA	05/27/2011 22:05	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11151A20A	05/31/2011 16:11	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11151A20A	05/31/2011 16:11	Laura M Krieger	1

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Analysis Report

Sample Description: EB06-SA5DN-SS-052411 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297648
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E-624 SDG#: DE161-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB06-SA5DN-SS-052411 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297648
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E-624 SDG#: DE161-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.052	U	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.052	U	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.20	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.019	J	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.019	J	0.010	0.052		1
10137	Naphthalene	91-20-3	0.13		0.031	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49		1
10407	Dalapon	75-99-0	0.25	U	0.25	1.2		1
10407	2,4-DB	94-82-6	0.30	U	0.30	0.99		1
10407	Dicamba	1918-00-9	0.079	U	0.079	0.30		1
10407	Dinoseb	88-85-7	0.099	U	0.099	0.49		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49		1
10407	MCPA	94-74-6	300	U	300	990		1
10407	MCPP	93-65-2	49	U	49	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049		1
10407	2,4,5-TP	93-72-1	0.0099	U	0.0099	0.049		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.51		1

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Sample Description: EB06-SA5DN-SS-052411 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297648
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E-624 SDG#: DE161-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
00177	p,p-DDD	72-54-8	0.0051 U	0.0051	0.021		1
00177	p,p-DDE	72-55-9	0.0051 U	0.0051	0.021		1
00177	p,p-DDT	50-29-3	0.0051 U	0.0051	0.021		1
00177	Delta BHC	319-86-8	0.0030 U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055 U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0044 U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.015 U	0.015	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060 U	0.0060	0.021		1
00177	Endrin	72-20-8	0.0083 U	0.0083	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021 U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0051 U	0.0051	0.021		1
00177	Heptachlor	76-44-8	0.0027 U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024 U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031 U	0.031	0.10		1
00177	Mirex	2385-85-5	0.087 U	0.087	0.26		1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.51		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15 U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.51		1
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.51		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB06-SA5DN-SS-052411 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297648
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E-624 SDG#: DE161-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.00017	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046	U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.6		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11146WAD026	06/06/2011 00:31	Linda M Hartenstine	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11151WAG026	06/15/2011 16:02	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB06-SA5DN-SS-052411 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297648
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E-624 SDG#: DE161-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	11146WAD026	05/26/2011 16:00	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11151WAG026	05/31/2011 15:50	Nicholas W Shroyer	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111450014A	05/27/2011 01:03	Michele D Hamilton	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111460040A	06/03/2011 06:50	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111460041A	05/28/2011 14:29	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111460041A	05/27/2011 14:00	Kelli M Barto	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111460040A	05/27/2011 14:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111450014A	05/25/2011 20:00	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
08014	Boron	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
01750	Calcium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
01754	Iron	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
01756	Lithium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
07058	Manganese	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
01762	Potassium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
01767	Sodium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
08068	Strontium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
07069	Tin	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
07070	Titanium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111471848003	05/31/2011 23:06	John P Hook	1
06024	Antimony	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111476050003D	06/01/2011 10:02	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111476050003C	06/01/2011 10:02	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111476050003B	06/01/2011 10:02	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111536050006A	06/08/2011 00:19	David K Beck	1
06048	Vanadium	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111476050003A	06/01/2011 10:02	Choon Y Tian	1
00259	Mercury	SW-846 7470A	2	111465713002	05/31/2011 15:12	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111471848003	05/31/2011 10:53	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111476050003	05/31/2011 10:48	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	111536050006	06/03/2011 09:32	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111465713002	05/26/2011 15:20	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5DN-SS-052411 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297648
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E-624 SDG#: DE161-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11146196901C	05/27/2011 08:19	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 16:15	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11145196401B	05/25/2011 12:05	Ashley M Adams	1
00200	18b pH by 9040B	SW-846 9040B	1	11152020001A	06/01/2011 19:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB05-SA5DN-SS-052311 Water
SSFL Area IV Collocated Soil Sampling
EB05-SA5DN-SS-052311

LLI Sample # WW 6297649
LLI Group # 1248478
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/23/2011 14:05

Submitted: 05/25/2011 09:15
Reported: 06/21/2011 14:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E-523 SDG#: DE161-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06624	19b Alcohols by 8015B	SW-846 8015B	1	111470016A	05/27/2011 18:40	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111450028A	05/25/2011 20:45	Dustin A Underkoffler	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11144196901B	05/25/2011 05:58	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111471AA	Sample number(s): 6297643-6297646									
Acetone	9.6		6.7	8.0	ug/kg	159	153	32-209	4	30
Benzene	0.10	U	0.10	4.0	ug/kg	106	103	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99	98	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	106	101	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	100	96	78-120	4	30
Bromoform	0.40	U	0.40	4.0	ug/kg	94	93	70-120	1	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	73	73	32-162	1	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	134	124	46-153	8	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	102	102	72-120	0	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	103	103	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	102	100	75-120	2	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	105	99	69-122	6	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	103	100	80-120	2	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	67	67	37-154	0	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95	91	43-146	5	30
Chloroform	0.12	U	0.12	4.0	ug/kg	107	101	80-120	6	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	81	80	54-132	0	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99	99	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	102	79-120	1	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	98	101	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	101	96	58-120	5	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	103	99	80-120	5	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100	96	80-120	3	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	101	100	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	97	97	78-120	0	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99	98	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	71	67	20-120	6	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	106	102	80-120	4	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	106	103	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	108	103	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	103	99	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	100	79-120	4	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102	99	80-120	2	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104	101	80-120	3	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	100	96	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	102	77-120	4	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	96	80-120	2	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	95	93	77-120	2	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104	103	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	106	99	61-126	7	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	77*	77*	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	89	90	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	123	118	45-155	4	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	105	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101	102	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	103	99	74-121	4	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107	101	61-134	5	30
Methylene Chloride	1.1	J	0.24	4.0	ug/kg	110	103	76-124	6	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	108	107	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	104	102	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	101	99	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	94	71-123	4	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103	99	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	102	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	92	94	64-120	2	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	87	90	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	99	71-125	3	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	98	80-120	3	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	101	99	80-120	3	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	89	83	58-133	7	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	97	95	71-123	3	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102	102	79-120	0	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104	103	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	81	79	53-120	2	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	106	105	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	103	103	80-120	1	30
Batch number: E111461AA	Sample number(s): 6297647									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	97	106	80-123	9	30
Batch number: E111462AA	Sample number(s): 6297643-6297646									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	104	70-130	0	30
Batch number: L111471AA	Sample number(s): 6297647									
Acetone	6	U	6.	20	ug/l	134	111	49-234	19	30
Benzene	0.5	U	0.5	5	ug/l	97	98	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	78	80	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	102	103	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	105	97	66-151	8	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	94	78-120	4	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	93	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	103	103	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	92	93	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	96	97	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	99	100	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	92	91	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	87	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	87	87	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	90	90	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	97	96	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	90	90	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	95	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	97	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	88	89	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	91	93	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	91	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	87	91	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	88	90	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	105	101	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	81	84	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	93	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	94	96	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	91	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	92	92	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	90	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	95	96	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	95	93	80-120	3	30
Styrene	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	89	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	100	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	82	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	101	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	95	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	96	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	93	94	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	99	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	95	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Batch number: 11146SLB026	Sample number(s): 6297641-6297646									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	103		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	108		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	131*		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	137		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	141		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	121		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	121		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	105		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	114		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	125		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	110		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	132		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	104		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	107		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	152		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	102		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 11146SLF026	Sample number(s): 6297643									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11146WAD026	Sample number(s): 6297648									
Aniline	1	U	1.	5	ug/l	71	76	49-101	6	30
Benzidine	20	U	20.	60	ug/l	68	74	34-117	9	30
Benzoic acid	6	U	6.	15	ug/l	44	26	10-69	51*	30
Benzyl alcohol	5	U	5.	15	ug/l	81	79	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	91	92	82-117	0	30
Carbazole	1	U	1.	5	ug/l	96	94	81-114	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	96	91	70-123	5	30
4-Chloroaniline	1	U	1.	5	ug/l	70	80	42-124	13	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	93	74-124	1	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	91	89	77-108	2	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	90	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	95	97	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	97	92	77-108	6	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	93	92	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	94	93	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	86	84	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	86	85	50-119	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	86	84	53-119	2	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	67	74	49-111	10	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	95	90	80-109	5	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	92	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	104	99	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	100	93	78-119	8	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	100	84	52-131	18	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	96	81-115	2	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	94	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	99	96	78-116	3	30
Hexachlorobenzene	1	U	1.	5	ug/l	94	92	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	90	88	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	77	76	36-118	1	30
Hexachloroethane	1	U	1.	5	ug/l	82	81	52-113	1	30
Isophorone	1	U	1.	5	ug/l	94	94	74-117	0	30
2-Methylphenol	1	U	1.	5	ug/l	84	82	64-101	3	30
4-Methylphenol	2	U	2.	5	ug/l	78	76	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	99	96	83-116	3	30
3-Nitroaniline	1	U	1.	5	ug/l	95	91	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	78	79	59-100	1	30
Nitrobenzene	1	U	1.	5	ug/l	92	92	75-109	0	30
2-Nitrophenol	1	U	1.	5	ug/l	93	93	86-120	0	30
4-Nitrophenol	10	U	10.	30	ug/l	47	46	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	91	90	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	94	92	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	98	90	53-110	8	30
Phenol	1	U	1.	5	ug/l	41	39	21-67	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	87	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	93	79-107	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	96	94	81-113	1	30
Batch number: 11151SLD026	Sample number(s): 6297641-6297646									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	54		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		68-105		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	77		51-117		
Phenol	17	U	17.	170	ug/kg	87		58-112		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 11151WAG026	Sample number(s): 6297648									
Acenaphthene	0.010	U	0.010	0.050	ug/l	88	86	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	83	81	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	89	85	66-111	5	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	91	88	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	88	85	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	100	90	69-123	10	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	91	88	57-131	3	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	88	93	59-130	5	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	100	100	40-138	0	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	97	94	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	89	87	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	92	89	55-134	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	85	83	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	76	76	40-119	1	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	101	97	57-154	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	92	89	75-116	4	30
Fluorene	0.010	U	0.010	0.050	ug/l	90	88	75-114	3	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	91	89	69-124	3	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	90	86	71-117	4	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	80	77	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	87	83	72-109	5	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	61	36-89	8	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	111	109	57-145	2	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	89	84	76-111	5	30
Pyrene	0.010	U	0.010	0.050	ug/l	89	86	69-118	3	30
Batch number: 11151A20A	Sample number(s): 6297647									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11151B34A	Sample number(s): 6297643									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	74	67-119	8	30
Batch number: 111510007A	Sample number(s): 6297643									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	103		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	107		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	84		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	101		80-120		
PETN	800 U		800.	2,400	ug/kg	114		80-120		
RDX	50	U	50.	120	ug/kg	98		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111530001A	Sample number(s): 6297643									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	95		80-126		
Batch number: 111450014A	Sample number(s): 6297648									
2,4-D	0.16	U	0.16	0.50	ug/l	120	116	73-157	3	30
Dalapon	0.25	U	0.25	1.3	ug/l	63	70	40-100	10	30
2,4-DB	0.30	U	0.30	1.0	ug/l	116	112	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	96	92	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	74	74	32-91	0	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	120	76-170	3	30
MCPA	300 U		300.	1,000	ug/l	90	88	65-128	2	30
MCPP	50	U	50.	200	ug/l	96	96	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	112	108	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104	108	63-134	4	30
Batch number: 111450020A	Sample number(s): 6297641-6297642									
2,4-D	1.2	U	1.2	3.6	ug/kg	95		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	49		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	100		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	78		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	103		62-170		
MCPA	76	U	76.	250	ug/kg	71		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	101		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	83		68-114		
Batch number: 111460023A	Sample number(s): 6297641-6297642									
Aldrin	0.066	U	0.066	0.17	ug/kg	85		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	109		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	91		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	115		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	111		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	109		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	100		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	80		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	118		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	113		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	97		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	103		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	100		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	135*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111460040A	Sample number(s): 6297648									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	111	54-159	10	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30

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Quality Control Summary

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Reported: 06/21/11 at 02:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	103	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	120	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	116	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	114	114	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	125	125	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	120	120	68-128	0	30
Endosulfan II	0.59		0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	110	115	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	105	52-132	21	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	130	125	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	120	130*	57-126	8	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	102	112	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	120	52-133	0	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111460041A	Sample number(s): 6297648									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	72	84	35-84	15	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	100	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	96	102	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111530010A	Sample number(s): 6297641-6297646									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	76	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111480003A	Sample number(s): 6297643									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	95		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	96		69-132		
EFH (C30 - C40)	1.4		0.40	1.2	mg/kg	90		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	71		54-107		
Batch number: 111450028A	Sample number(s): 6297649									
Diethylene glycol	10	U	10.	100	mg/l	120	120	78-126	0	20
Ethylene glycol	10	U	10.	100	mg/l	110	115	80-124	4	20

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Quality Control Summary

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Reported: 06/21/11 at 02:37 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Propylene glycol	10 U	10.	100	mg/l	110	105	80-120	5	20
Batch number: 111450035A	Sample number(s): 6297643								
Ethanol	100 U	100.	500	ug/kg	91		71-129		
Isopropanol	100 U	100.	500	ug/kg	92		75-125		
Methanol	100 U	100.	500	ug/kg	94		68-129		
Batch number: 111460011A	Sample number(s): 6297643								
Diethylene glycol	5.0 U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0 U	5.0	10	mg/kg	89		65-122		
Propylene glycol	5.0 U	5.0	10	mg/kg	91		75-125		
Batch number: 111470016A	Sample number(s): 6297649								
Ethanol	200 U	200.	1,000	ug/l	96		66-132		
Isopropanol	200 U	200.	1,000	ug/l	96		75-125		
Methanol	200 U	200.	1,000	ug/l	100		71-140		
Batch number: 111510027A	Sample number(s): 6297643								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111465713002	Sample number(s): 6297648								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	97	97	80-120	1	20
Batch number: 111471848003	Sample number(s): 6297648								
Aluminum	0.0834 U	0.0834	0.200	mg/l	99	99	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	93	93	89-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	102	104	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	102	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	101	80-120	1	20
Magnesium	0.0211 J	0.0172	0.100	mg/l	101	103	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	101	102	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	98	99	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	99	103	85-115	4	20
Sodium	0.433 U	0.433	1.00	mg/l	98	99	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	100	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	100	101	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	99	100	80-120	1	20
Batch number: 111476050003A	Sample number(s): 6297648								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	103	87-110	2	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	107	101	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	107	105	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	100	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	99	98	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	103	101	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	101	90-113	2	20
Lead	0.000055 J	0.00005 2	0.0010	mg/l	105	104	90-115	1	20

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	105	90-113	3	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	106	104	90-115	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	97	98	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	108	101	90-116	7	20
Batch number: 111476050003B	Sample number(s): 6297648								
Selenium	0.00025 U	0.00025	0.0020	mg/l	108	107	85-114	1	20
Batch number: 111476050003C	Sample number(s): 6297648								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	104	89-115	1	20
Batch number: 111476050003D	Sample number(s): 6297648								
Barium	0.00053 U	0.00053	0.0020	mg/l	104	105	88-113	1	20
Batch number: 111525708001	Sample number(s): 6297641-6297646								
Aluminum	6.00 J	4.84	19.2	mg/kg	92		61-110		
Boron	0.856 U	0.856	4.81	mg/kg	91		78-110		
Calcium	8.24 J	5.89	19.2	mg/kg	92		88-110		
Iron	4.53 U	4.53	19.2	mg/kg	83		61-110		
Lithium	0.21 U	0.21	1.9	mg/kg	99		80-120		
Magnesium	2.44 U	2.44	9.62	mg/kg	92		82-110		
Manganese	0.0750 U	0.0750	0.481	mg/kg	96		89-112		
Phosphorus	0.998 J	0.538	9.62	mg/kg	102		80-120		
Potassium	17.3 U	17.3	48.1	mg/kg	95		78-110		
Sodium	35.9 U	35.9	96.2	mg/kg	93		87-110		
Strontium	0.0596 U	0.0596	0.481	mg/kg	96		86-110		
Tin	1.17 J	0.962	9.62	mg/kg	93		90-114		
Titanium	0.365 U	0.365	0.962	mg/kg	84		80-120		
Zirconium	0.808 U	0.808	4.81	mg/kg	97		80-120		
Batch number: 111525711001	Sample number(s): 6297641-6297646								
Mercury	0.0026 U	0.0026	0.0923	mg/kg	93		88-123		
Batch number: 111536050006A	Sample number(s): 6297648								
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	100	89-116	3	20
Batch number: 111571026002A	Sample number(s): 6297641-6297646								
Antimony	0.0594 U	0.0594	0.198	mg/kg	82		27-181		
Arsenic	0.0792 U	0.0792	0.396	mg/kg	101		83-113		
Beryllium	0.0158 U	0.0158	0.0990	mg/kg	102		86-111		
Cadmium	0.0396 U	0.0396	0.0990	mg/kg	106		82-118		
Chromium	0.119 U	0.119	0.396	mg/kg	103		80-120		
Cobalt	0.0198 U	0.0198	0.0990	mg/kg	105		82-118		
Copper	0.107 J	0.0653	0.396	mg/kg	98		83-110		
Lead	0.0103 U	0.0103	0.198	mg/kg	102		83-110		
Nickel	0.0990 U	0.0990	0.396	mg/kg	101		81-110		
Silver	0.0119 U	0.0119	0.0990	mg/kg	100		81-111		
Thallium	0.0297 U	0.0297	0.0990	mg/kg	102		83-110		
Vanadium	0.0218 U	0.0218	0.0990	mg/kg	95		84-116		
Zinc	0.554 U	0.554	2.97	mg/kg	101		81-112		
Batch number: 111571026002B	Sample number(s): 6297641-6297646								
Selenium	0.0396 U	0.0396	0.396	mg/kg	107		83-111		
Batch number: 111571026002C	Sample number(s): 6297641-6297646								
Molybdenum	0.0495 U	0.0495	0.0990	mg/kg	107		78-122		

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Quality Control Summary

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Batch number: 111571026002D	Sample number(s): 6297641-6297646									
Barium	0.107	U	0.107	0.396	mg/kg	102		81-111		
Batch number: 11144196901B	Sample number(s): 6297649									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	91	90	90-110	1	20
Batch number: 11145196401B	Sample number(s): 6297648									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	102	101	90-110	1	20
Batch number: 11146196901C	Sample number(s): 6297648									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	101	103	90-110	2	20
Batch number: 11148243201A	Sample number(s): 6297641-6297646									
3a Cr VI by EPA 7199	0.26	J	0.20	1.0	mg/kg	95		80-120		
Batch number: 11152621201A	Sample number(s): 6297641-6297646									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11153102201A	Sample number(s): 6297643									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	108		80-120		
Batch number: 11154621201A	Sample number(s): 6297641-6297646									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11154621701A	Sample number(s): 6297648									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11152020001A	Sample number(s): 6297648									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11152039402A	Sample number(s): 6297641-6297646									
18a pH by 9045C						100		95-105		
Batch number: 11154162401B	Sample number(s): 6297641-6297642,6297644-6297646									
Moisture Content by 160.3						100		80-120		
Batch number: 11160162401B	Sample number(s): 6297643									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111462AA	Sample number(s): 6297643-6297646 UNSPK: P298873								
1,4-Dioxane	103	111	70-130	18	30				
Batch number: 11146SLB026	Sample number(s): 6297641-6297646 UNSPK: P298873								
Acenaphthene	93	91	63-105	2	30				
Acenaphthylene	95	91	67-114	3	30				
Anthracene	102	102	60-122	1	30				

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Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	104	103	59-128	0	30				
Benzo(a)pyrene	133	129	45-138	2	30				
Benzo(b)fluoranthene	160*	137	43-155	14	30				
Benzo(g,h,i)perylene	66	66	33-141	0	30				
Benzo(k)fluoranthene	136	144	42-144	6	30				
Butylbenzylphthalate	100	104	57-173	5	30				
Di-n-butylphthalate	112	112	65-148	1	30				
Chrysene	101	99	48-134	1	30				
Dibenz(a,h)anthracene	88	88	22-133	1	30				
Diethylphthalate	104	99	70-136	4	30				
Dimethylphthalate	101	96	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	105	108	39-167	4	30				
Fluoranthene	114	112	26-166	1	30				
Fluorene	101	98	66-122	2	30				
Indeno(1,2,3-cd)pyrene	82	82	21-143	0	30				
1-Methylnaphthalene	98	97	72-123	0	30				
2-Methylnaphthalene	90	88	64-103	2	30				
Naphthalene	95	92	61-102	2	30				
N-Nitrosodimethylamine	104	102	48-113	1	30				
Di-n-octylphthalate	156	151	40-192	2	30				
Phenanthrene	99	96	12-165	2	30				
Pyrene	89	89	15-153	2	30				
Batch number: 11146SLF026	Sample number(s): 6297643 UNSPK: P297556								
N-Nitrosodimethylamine	72	73	70-130	2	30				
Batch number: 11151SLD026	Sample number(s): 6297641-6297646 UNSPK: P298873								
Aniline	62	78	35-95	23	30				
Benzidine	19*	31*	35-141	50*	30				
Benzoic acid	60	95	10-173	45*	30				
Benzyl alcohol	84	96	67-115	13	30				
4-Bromophenyl-phenylether	79	92	67-129	15	30				
Carbazole	84	100	64-120	18	30				
4-Chloro-3-methylphenol	84	99	76-110	16	30				
4-Chloroaniline	47	60	23-95	25	30				
bis(2-Chloroethoxy)methane	81	92	75-104	13	30				
bis(2-Chloroethyl)ether	77	88	60-116	14	30				
bis(2-Chloroisopropyl)ether	76	90	55-142	17	30				
2-Chloronaphthalene	57	69	50-141	19	30				
2-Chlorophenol	86	99	73-121	14	30				
4-Chlorophenyl-phenylether	80	99	80-109	21	30				
Dibenzofuran	82	98	71-112	17	30				
1,2-Dichlorobenzene	70	83	66-108	17	30				
1,3-Dichlorobenzene	69	82	63-109	17	30				
1,4-Dichlorobenzene	69*	81	70-100	15	30				
3,3'-Dichlorobenzidine	39	53	16-119	29	30				
2,4-Dichlorophenol	86	98	78-117	13	30				
2,4-Dimethylphenol	83	99	78-110	17	30				
3,5-Dimethylphenol	91	107	70-130	16	30				
4,6-Dinitro-2-methylphenol	64	83	24-116	25	30				
2,4-Dinitrophenol	46	79	20-143	52*	30				
2,4-Dinitrotoluene	83	100	73-113	19	30				
2,6-Dinitrotoluene	83	100	69-123	18	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	84	97	71-129	15	30				
bis(2-Ethylhexyl)phthalate	84	98	63-122	16	30				
Hexachlorobenzene	80	95	77-114	17	30				
Hexachlorobutadiene	74	88	62-120	18	30				
Hexachlorocyclopentadiene	69	84	10-153	19	30				
Hexachloroethane	65	77	57-109	16	30				
Isophorone	80	95	73-102	17	30				
2-Methylphenol	83	93	75-111	12	30				
4-Methylphenol	82	92	71-111	12	30				
2-Nitroaniline	84	102	67-125	20	30				
3-Nitroaniline	81	101	59-122	21	30				
4-Nitroaniline	63	80	52-112	24	30				
Nitrobenzene	78	93	72-106	17	30				
2-Nitrophenol	80	92	74-115	14	30				
4-Nitrophenol	68	88	54-113	27	30				
N-Nitroso-di-n-propylamine	77	92	60-116	17	30				
N-Nitrosodiphenylamine	81*	95	86-145	16	30				
Pentachlorophenol	76	92	28-127	19	30				
Phenol	78	88	58-126	12	30				
1,2,4-Trichlorobenzene	77	91	72-115	17	30				
2,4,5-Trichlorophenol	80	99	78-109	21	30				
2,4,6-Trichlorophenol	82	97	77-115	17	30				
Batch number: 11151B34A	Sample number(s): 6297643 UNSPK: P302747								
9a TPH by EPA 8015B Gas C5-C12	61	62	39-118	5	30				
Batch number: 111510007A	Sample number(s): 6297643 UNSPK: P301476								
4-Amino-2,6-Dinitrotoluene	109	107	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	2	50				
1,3-Dinitrobenzene	112	110	38-166	2	50				
2,4-Dinitrotoluene	105	103	80-131	2	50				
2,6-Dinitrotoluene	110	106	80-127	4	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	109	105	80-125	4	50				
Nitroglycerin	97	96	80-120	2	50				
2-Nitrotoluene	106	103	80-122	3	50				
3-Nitrotoluene	112	110	72-119	2	50				
4-Nitrotoluene	104	102	80-125	2	50				
PETN	120	120	80-121	0	50				
RDX	90	89	75-129	1	50				
Tetryl	97	96	55-174	0	50				
1,3,5-Trinitrobenzene	105	102	82-126	3	50				
2,4,6-Trinitrotoluene	109	107	82-130	2	50				
Batch number: 111530001A	Sample number(s): 6297643 UNSPK: P302801								
25a Formaldehyde 8315A	95	99	80-120	3	50				
Batch number: 111450020A	Sample number(s): 6297641-6297642 UNSPK: P296047								
2,4-D	102	94	17-180	9	35				
Dalapon	58	46	10-125	24	50				
2,4-DB	62	68	10-201	9	50				
Dicamba	86	72	10-190	17	50				
Dinoseb	9*	7*	10-46	27	35				

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Quality Control Summary

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Reported: 06/21/11 at 02:37 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-DP (Dichlorprop)	100	87	33-178	15	50				
MCPA	89	74	10-213	18	50				
MCPP (Mecoprop)	70	78	10-184	11	50				
2,4,5-T	70	59	10-156	17	35				
2,4,5-TP	59	51	24-141	12	35				
Batch number: 111460023A	Sample number(s): 6297641-6297642 UNSPK: P294833								
Aldrin	70	67	16-126	4	50				
Alpha BHC	88	91	10-129	3	50				
Beta BHC	59	56	14-147	5	50				
Gamma BHC - Lindane	91	91	10-140	0	50				
p,p-DDD	78	82	16-163	6	50				
p,p-DDE	74	74	18-161	0	50				
p,p-DDT	114	121	10-176	6	50				
Delta BHC	78	75	23-140	4	50				
Dieldrin	78	76	19-154	3	50				
Endosulfan I	70	61	16-137	14	50				
Endosulfan II	55	55	28-154	0	50				
Endosulfan Sulfate	80	75	21-160	6	50				
Endrin	77	77	11-149	0	50				
Endrin Aldehyde	60	60	10-148	0	35				
Endrin Ketone	72	71	22-165	2	50				
Heptachlor	80	76	13-126	6	50				
Heptachlor Epoxide	69	50	13-157	32	50				
Methoxychlor	102	95	32-147	7	50				
Batch number: 111530010A	Sample number(s): 6297641-6297646 UNSPK: 6297644								
PCB-1016	96	99	29-146	3	50				
PCB-1260	104	107	39-149	3	50				
Batch number: 111480003A	Sample number(s): 6297643 UNSPK: P297556								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	84 (2)	1202 (2)	49-123	34*	20				
EFH (C30 - C40)	391 (2)	3019 (2)	49-123	28*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111450035A	Sample number(s): 6297643 UNSPK: P296047								
Ethanol	66	64	48-130	2	20				
Isopropanol	71	71	12-149	1	20				
Methanol	71	69	43-138	2	20				
Batch number: 111460011A	Sample number(s): 6297643 UNSPK: P297556								
Diethylene glycol	58*	47*	59-109	21*	20				
Ethylene glycol	80	72	63-107	9	20				
Propylene glycol	85	79	63-107	8	20				
Batch number: 111470016A	Sample number(s): 6297649 UNSPK: P299709								
Ethanol	88	88	62-145	0	20				
Isopropanol	92	92	73-131	0	20				
Methanol	76	72	52-159	5	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111510027A	Sample number(s): 6297643 UNSPK: P296047								
m-Terphenyl	82	80	75-125	2	20				
o-Terphenyl	98	95	75-125	4	20				
p-Terphenyl	94	93	75-125	1	20				
Batch number: 111525708001	Sample number(s): 6297641-6297646 UNSPK: P298873 BKG: P298873								
Aluminum	5295 (2)	7388 (2)	75-125	12	20	18,000	19,300	7	20
Boron	93	94	84-115	3	20	4.32 U	4.36 U	0 (1)	20
Calcium	-76 (2)	29 (2)	75-125	8	20	4,990	4,970	0	20
Iron	-5356 (2)	-747 (2)	75-125	14	20	37,300	37,200	0	20
Lithium	98	105	82-114	2	20	40.0	40.9	2	20
Magnesium	450 (2)	274 (2)	75-125	5	20	6,510	6,600	1	20
Manganese	-257 (2)	-256 (2)	75-125	2	20	401	356	12	20
Phosphorus	-220 (2)	-292 (2)	75-125	16	20	640	575	11	20
Potassium	81	40*	75-125	12	20	3,110	2,950	5	20
Sodium	82	89	75-125	3	20	363	398	9 (1)	20
Strontium	106	105	75-115	3	20	30.7	34.3	11	20
Tin	84	85	80-110	3	20	3.66 J	3.49 J	5 (1)	20
Titanium	-31 (2)	-94 (2)	75-125	4	20	1,660	1,650	0	20
Zirconium	95	96	75-125	2	20	6.19	7.12	14 (1)	20
Batch number: 111525711001	Sample number(s): 6297641-6297646 UNSPK: P298873 BKG: P298873								
Mercury	103	94	65-135	11	20	0.0037 J	0.0134 J	113* (1)	20
Batch number: 111571026002A	Sample number(s): 6297641-6297646 UNSPK: P298873 BKG: P298873								
Antimony	34*	44*	75-125	19	20	0.106 J	0.109 J	3 (1)	20
Arsenic	267 (2)	89 (2)	75-125	24*	20	11.0	11.6	5	20
Beryllium	118	67*	75-125	28*	20	0.763	0.788	3	20
Cadmium	101	107	75-125	3	20	0.0752 J	0.0849 J	12 (1)	20
Chromium	201*	101	75-125	28*	20	20.9	21.6	3	20
Cobalt	125	95	75-125	24*	20	12.6	8.33	41*	20
Copper	121	67*	75-125	21*	20	16.9	16.3	4	20
Lead	291*	77	75-125	46*	20	8.44	7.96	6	20
Nickel	162*	104	75-125	21*	20	15.6	16.2	3	20
Silver	102	104	75-125	1	20	0.0257 J	0.107	122* (1)	20
Thallium	94	124	75-125	13	20	0.357	0.363	1 (1)	20
Vanadium	258 (2)	93 (2)	75-125	28*	20	41.4	41.5	0	20
Zinc	-47 (2)	-7 (2)	75-125	5	20	89.7	87.9	2	20
Batch number: 111571026002B	Sample number(s): 6297641-6297646 UNSPK: P298873 BKG: P298873								
Selenium	104	104	75-125	3	20	0.0941 J	0.0912 J	3 (1)	20
Batch number: 111571026002C	Sample number(s): 6297641-6297646 UNSPK: P298873 BKG: P298873								
Molybdenum	94	101	75-125	4	20	0.431	0.407	6 (1)	20
Batch number: 111571026002D	Sample number(s): 6297641-6297646 UNSPK: P298873 BKG: P298873								
Barium	373 (2)	-28 (2)	75-125	24*	20	149	170	13	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11148243201A	Sample number(s): 6297641-6297646 UNSPK: P298873 BKG: P298873								
3a Cr VI by EPA 7199	86		75-125			0.98 J	0.52 J	60* (1)	20
Batch number: 11152621201A	Sample number(s): 6297641-6297646 UNSPK: 6297641 BKG: 6297641								
11a Anions by 300.0 - Fluoride	52*		80-120			1.6	1.5	12 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			9.2	7.1	25* (1)	20
Batch number: 11153102201A	Sample number(s): 6297643 UNSPK: P297556 BKG: P297556								
17a Cyanide by 9012B	108		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11154621201A	Sample number(s): 6297641-6297646 UNSPK: 6297641 BKG: 6297641								
7a Perchlorate EPA 314.0	95		80-120			44.7	53.1	17* (1)	15
Batch number: 11152039402A	Sample number(s): 6297641-6297646 BKG: P298873								
18a pH by 9045C						7.89	7.86	0	3
Batch number: 11154162401B	Sample number(s): 6297641-6297642,6297644-6297646 BKG: P298873								
Moisture Content by 160.3						9.3	8.5	8	20
Batch number: 11160162401B	Sample number(s): 6297643 BKG: P298871								
Moisture Content by 160.3						6.4	7.5	17	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6297643	102	103	99	95
6297644	102	99	100	95
6297645	102	98	100	95
6297646	103	102	99	96
Blank	101	102	100	96
LCS	102	102	102	101
LCSD	100	100	102	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111461AA

	Toluene-d8
6297647	106
Blank	106
LCS	106
LCSD	106

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Surrogate Quality Control

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111462AA

	Toluene-d8
6297643	97
6297644	98
6297645	97
6297646	98
Blank	98
LCS	98
LCSD	98
MS	93
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6297647	103	100	101	98
Blank	103	101	101	99
LCS	103	102	102	100
LCSD	102	102	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11146SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6297641	119	97	98
6297642	107	82	94
6297643	95	82	94
6297644	109	96	105
6297645	96	84	94
6297646	102	94	101
Blank	103	93	100
LCS	112	100	104
MS	106	95	95
MSD	109	96	96
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLF026

	N-Nitrosodimethylamine-d6
6297643	85
Blank	82
LCS	82
MS	101
MSD	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11146WAD026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6297648	57	34	96	87	86	82
Blank	59	36	96	91	88	84
LCS	62	40	94	86	88	84
LCSD	60	39	92	86	87	85
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11151SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6297641	96	97	89	86	90	91
6297642	88	89	86	80	81	91
6297643	85	88	81	79	80	90
6297644	88	89	84	81	82	92
6297645	86	89	84	80	80	89
6297646	87	89	84	79	80	91
Blank	85	89	85	82	83	81
LCS	92	94	97	85	87	86
MS	85	86	83	79	77	77
MSD	91	93	98	86	87	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11151WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6297648	62	57	74
Blank	89	88	95
LCS	95	88	92
LCSD	91	87	91
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11151A20A

	Trifluorotoluene-F
6297647	70
Blank	70
LCS	112
LCSD	108
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11151B34A

	Trifluorotoluene-F
6297643	71

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Surrogate Quality Control

Blank	76
LCS	79
LCSD	87
MS	74
MSD	74
Limits:	61-122

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111450014A

	2,4-Dichlorophenylacetic acid
6297648	98
Blank	92
LCS	109
LCSD	106
Limits:	35-144

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111450020A

	2,4-Dichlorophenylacetic acid
6297641	86
6297642	79
Blank	79
LCS	83
MS	100
MSD	95
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 111460023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6297641	79	95
6297642	66	81
Blank	81	113
LCS	91	110
MS	79	83
MSD	74	83
Limits:	50-130	20-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 111460040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6297648	102	90
Blank	100	88
LCS	98	107
LCSD	102	99
Limits:	52-141	40-144

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Surrogate Quality Control

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111460041A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6297648	111	88
Blank	116	86
LCS	119	70
LCSD	116	97
Limits:	30-150	30-150

Analysis Name: 16a Energetics by 8330A
Batch number: 111510007A

	2-Nitro-m-xylene
6297643	129
Blank	136
LCS	127
LCSD	132
MS	122
MSD	119
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111530001A

	Butyraldehyde
6297643	135*
Blank	134*
LCS	130*
MS	129*
MSD	134*
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111530010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6297641	131	155*
6297642	112	103
6297643	111	104
6297644	110	107
6297645	109	104
6297646	108	107
Blank	107	101
LCS	108	105
LCSD	113	111
MS	116	105
MSD	114	104
Limits:	53-139	45-120

Analysis Name: 21b Glycols by 8015B
Batch number: 111450028A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Surrogate Quality Control

	Tetramethylene glycol
6297649	108
Blank	105
LCS	114
LCSD	112
Limits:	77-119

Analysis Name: 19a Alcohols by 8015B
Batch number: 111450035A

	Acetone
6297643	83
Blank	87
LCS	86
MS	74
MSD	76
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111460011A

	Tetramethylene glycol
6297643	83
Blank	90
LCS	97
MS	84
MSD	89
Limits:	29-137

Analysis Name: 19b Alcohols by 8015B
Batch number: 111470016A

	Acetone
6297649	98
Blank	95
LCS	97
MS	97
MSD	97
Limits:	54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111480003A

	Chlorobenzene	Orthoterphenyl
6297643	76	91
Blank	78	94
LCS	82	92
MS	0*	96
MSD	83	95
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248478
Reported: 06/21/11 at 02:37 PM

Surrogate Quality Control

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111510027A

	n-Triacontane-d62
6297643	87
Blank	92
LCS	94
MS	151*
MSD	130
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1248478 6297641-49

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other instructions and Notes
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	1
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	1-SS sleeve			X	X																
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-SS sleeve			X	X																
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-SS sleeve			X	X																
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-SS sleeve			X	X																
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	1-SS sleeve			X	X																
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	1-SS sleeve			X	X																
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-SS sleeve			X	X																
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-SS sleeve			X	X																
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-SS sleeve			X	X																
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0905	SOIL	NONE	1-SS sleeve			X	X																
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	1-SS sleeve			X	X																
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	1-SS sleeve			X	X																
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-SS sleeve			X	X																
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1008	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1008	SOIL	NONE	1-SS sleeve			X	X																

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/24/2011 / 1700	5/25/11 915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1442 0887, 0898,0902 8695 1441 8019	

13013 1248478 6297641-49

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: [signature] 5-24-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphanyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-139-SA5DN-SB-2.5	5.24.11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-139-SA5DN-SB-2.0-3.0	5.24.11	1045	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-145-SA5DN-SB-2.5	5.24.11	1215	SOIL	NONE	4-Encores										X	X											
SL-145-SA5DN-SB-2.0-3.0	5.24.11	1220	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-146-SA5DN-SB-2.5	5.24.11	1440	SOIL	NONE	4-Encores										X	X											
SL-146-SA5DN-SB-2.0-3.0	5.24.11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-150-SA5DN-SB-4.5	5.24.11	1525	SOIL	NONE	4-Encores										X	X											
SL-150-SA5DN-SB-4.0-5.0	5.24.11	1535	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-052411	5.24.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/24/2011 / 1700	[signature] 5/25/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1442 0887, 0898,0902 8695 1441 8019	

13013 1248478 6297641-49

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS									SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB06-SA5DN-SS-052411	05.24.11	1230	WATER	NONE	7-1 liter ambers			X	X	X					X	X												
EB06-SA5DN-SS-052411	05.24.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X															
EB06-SA5DN-SS-052411	05.24.11	1230	WATER	HNO3	1-500 mL poly	X																						
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	HCL	2-40mL Vials																							X
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	4-40mL Vials																X						X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	05/24/2011 / 1700	5/25/11 915	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8695 1442 0887, 0898,0902 8695 1441 8019	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/25/2011
Group Number: 1248481
SDG: DX089
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-203-SA5DN-SS-0.0-0.5 Soil	6297652
SL-204-SA5DN-SS-0.0-0.5 Soil	6297653
SL-139-SA5DN-SB-2.0-3.0 Soil	6297654
SL-145-SA5DN-SB-2.0-3.0 Soil	6297655
SL-146-SA5DN-SB-2.0-3.0 Soil	6297656
SL-150-SA5DN-SB-4.0-5.0 Soil	6297657
EB06-SA5DN-SS-052411 Water	6297658

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297652
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20305 SDG#: DX089-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297652
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20305 SDG#: DX089-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0509	JQ	0.0178	1.17	1
11031	12378-PeCDD	40321-76-4	0.389	JB	0.0495	5.84	1
11031	123478-HxCDD	39227-28-6	0.572	JB	0.0732	5.84	1
11031	123678-HxCDD	57653-85-7	1.93	JB	0.0738	5.84	1
11031	123789-HxCDD	19408-74-3	1.49	JB	0.0655	5.84	1
11031	1234678-HpCDD	35822-46-9	31.9	B	0.0795	5.84	1
11031	OCDD	3268-87-9	345	B	0.106	11.7	1
11031	2378-TCDF	51207-31-9	0.918	JB	0.154	1.17	1
11031	12378-PeCDF	57117-41-6	2.26	JB	0.0561	5.84	1
11031	23478-PeCDF	57117-31-4	0.766	JB	0.0627	5.84	1
11031	123478-HxCDF	70648-26-9	1.85	JB	0.0815	5.84	1
11031	123678-HxCDF	57117-44-9	0.570	JB	0.0661	5.84	1
11031	123789-HxCDF	72918-21-9	1.14	JB	0.0761	5.84	1
11031	234678-HxCDF	60851-34-5	0.469	JB	0.0606	5.84	1
11031	1234678-HpCDF	67562-39-4	5.53	JB	0.0409	5.84	1
11031	1234789-HpCDF	55673-89-7	0.530	JBQ	0.0544	5.84	1
11031	OCDF	39001-02-0	14.1	B	0.0476	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297652
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20305 SDG#: DX089-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-203-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-203-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297652
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 08:50

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20305 SDG#: DX089-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/09/2011 22:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297653
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20405 SDG#: DX089-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297653
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20405 SDG#: DX089-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0195 U	0.0195	1.15	1
11031	12378-PeCDD	40321-76-4	0.0703 JBQ	0.0218	5.75	1
11031	123478-HxCDD	39227-28-6	0.0801 JB	0.0301	5.75	1
11031	123678-HxCDD	57653-85-7	0.300 JB	0.0317	5.75	1
11031	123789-HxCDD	19408-74-3	0.388 JB	0.0298	5.75	1
11031	1234678-HpCDD	35822-46-9	2.54 JB	0.0404	5.75	1
11031	OCDD	3268-87-9	23.1 B	0.0393	11.5	1
11031	2378-TCDF	51207-31-9	0.0448 JBQ	0.0325	1.15	1
11031	12378-PeCDF	57117-41-6	0.285 JBQ	0.0182	5.75	1
11031	23478-PeCDF	57117-31-4	0.128 JBQ	0.0184	5.75	1
11031	123478-HxCDF	70648-26-9	0.170 JBQ	0.0210	5.75	1
11031	123678-HxCDF	57117-44-9	0.0803 JB	0.0179	5.75	1
11031	123789-HxCDF	72918-21-9	0.373 JBQ	0.0302	5.75	1
11031	234678-HxCDF	60851-34-5	0.0632 JBQ	0.0213	5.75	1
11031	1234678-HpCDF	67562-39-4	0.388 JB	0.0179	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0654 JBQ	0.0352	5.75	1
11031	OCDF	39001-02-0	0.829 JBQ	0.0515	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-204-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297653
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20405 SDG#: DX089-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-204-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-204-SA5DN-SS-0.0-0.5

LLI Sample # SW 6297653
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:08

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20405 SDG#: DX089-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/09/2011 23:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297654
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13923 SDG#: DX089-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297654
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13923 SDG#: DX089-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0239 U	0.0239	1.11	1
11031	12378-PeCDD	40321-76-4	0.0915 JBQ	0.0438	5.53	1
11031	123478-HxCDD	39227-28-6	0.123 JBQ	0.0489	5.53	1
11031	123678-HxCDD	57653-85-7	0.389 JB	0.0503	5.53	1
11031	123789-HxCDD	19408-74-3	0.397 JB	0.0479	5.53	1
11031	1234678-HpCDD	35822-46-9	8.13 B	0.0685	5.53	1
11031	OCDD	3268-87-9	88.1 B	0.0615	11.1	1
11031	2378-TCDF	51207-31-9	0.0350 U	0.0350	1.11	1
11031	12378-PeCDF	57117-41-6	0.0765 JBQ	0.0157	5.53	1
11031	23478-PeCDF	57117-31-4	0.101 JBQ	0.0151	5.53	1
11031	123478-HxCDF	70648-26-9	0.0535 JBQ	0.0252	5.53	1
11031	123678-HxCDF	57117-44-9	0.0448 JBQ	0.0211	5.53	1
11031	123789-HxCDF	72918-21-9	0.0846 JBQ	0.0321	5.53	1
11031	234678-HxCDF	60851-34-5	0.0626 JBQ	0.0235	5.53	1
11031	1234678-HpCDF	67562-39-4	0.784 JBQ	0.0247	5.53	1
11031	1234789-HpCDF	55673-89-7	0.124 JBQ	0.0456	5.53	1
11031	OCDF	39001-02-0	2.06 JB	0.0537	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297654
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13923 SDG#: DX089-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297654
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 10:45

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13923 SDG#: DX089-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 00:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297655
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14523 SDG#: DX089-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297655
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14523 SDG#: DX089-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0148 U	0.0148	1.04	1
11031	12378-PeCDD	40321-76-4	0.0193 JBQ	0.0180	5.19	1
11031	123478-HxCDD	39227-28-6	0.0224 JBQ	0.0174	5.19	1
11031	123678-HxCDD	57653-85-7	0.120 JB	0.0182	5.19	1
11031	123789-HxCDD	19408-74-3	0.192 JBQ	0.0174	5.19	1
11031	1234678-HpCDD	35822-46-9	1.26 JB	0.0394	5.19	1
11031	OCDD	3268-87-9	17.4 B	0.0378	10.4	1
11031	2378-TCDF	51207-31-9	0.0155 U	0.0155	1.04	1
11031	12378-PeCDF	57117-41-6	0.0263 JBQ	0.00870	5.19	1
11031	23478-PeCDF	57117-31-4	0.0451 JBQ	0.00923	5.19	1
11031	123478-HxCDF	70648-26-9	0.0201 JBQ	0.0112	5.19	1
11031	123678-HxCDF	57117-44-9	0.0417 JBQ	0.0102	5.19	1
11031	123789-HxCDF	72918-21-9	0.112 JB	0.0134	5.19	1
11031	234678-HxCDF	60851-34-5	0.0405 JBQ	0.0107	5.19	1
11031	1234678-HpCDF	67562-39-4	0.170 JB	0.0103	5.19	1
11031	1234789-HpCDF	55673-89-7	0.0326 JBQ	0.0177	5.19	1
11031	OCDF	39001-02-0	0.371 JB	0.0319	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA5DN-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297655
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14523 SDG#: DX089-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297655
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:20

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14523 SDG#: DX089-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 00:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297656
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14623 SDG#: DX089-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297656
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14623 SDG#: DX089-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0610 JQ	0.0168	1.16	1
11031	12378-PeCDD	40321-76-4	0.132 JBQ	0.0182	5.79	1
11031	123478-HxCDD	39227-28-6	0.0941 JB	0.0158	5.79	1
11031	123678-HxCDD	57653-85-7	0.0939 JB	0.0164	5.79	1
11031	123789-HxCDD	19408-74-3	0.122 JB	0.0162	5.79	1
11031	1234678-HpCDD	35822-46-9	0.224 JB	0.0230	5.79	1
11031	OCDD	3268-87-9	0.535 JB	0.0311	11.6	1
11031	2378-TCDF	51207-31-9	0.0305 JBQ	0.0150	1.16	1
11031	12378-PeCDF	57117-41-6	0.170 JB	0.00864	5.79	1
11031	23478-PeCDF	57117-31-4	0.206 JBQ	0.00946	5.79	1
11031	123478-HxCDF	70648-26-9	0.125 JBQ	0.0179	5.79	1
11031	123678-HxCDF	57117-44-9	0.126 JBQ	0.0138	5.79	1
11031	123789-HxCDF	72918-21-9	0.126 JB	0.0176	5.79	1
11031	234678-HxCDF	60851-34-5	0.123 JB	0.0127	5.79	1
11031	1234678-HpCDF	67562-39-4	0.104 JB	0.00783	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0906 JBQ	0.0157	5.79	1
11031	OCDF	39001-02-0	0.176 JBQ	0.0361	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA5DN-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297656
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14623 SDG#: DX089-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-146-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5DN-SB-2.0-3.0

LLI Sample # SW 6297656
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 14:40

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

14623 SDG#: DX089-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 14:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297657
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15045 SDG#: DX089-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297657
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15045 SDG#: DX089-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.133	JQ	0.0189	1.07	1
11031	12378-PeCDD	40321-76-4	0.468	JBQ	0.0241	5.37	1
11031	123478-HxCDD	39227-28-6	0.256	JB	0.0247	5.37	1
11031	123678-HxCDD	57653-85-7	0.276	JB	0.0262	5.37	1
11031	123789-HxCDD	19408-74-3	0.275	JB	0.0241	5.37	1
11031	1234678-HpCDD	35822-46-9	0.284	JB	0.0239	5.37	1
11031	OCDD	3268-87-9	0.535	JBQ	0.0267	10.7	1
11031	2378-TCDF	51207-31-9	0.163	JBQ	0.0168	1.07	1
11031	12378-PeCDF	57117-41-6	0.563	JB	0.0120	5.37	1
11031	23478-PeCDF	57117-31-4	0.483	JB	0.0125	5.37	1
11031	123478-HxCDF	70648-26-9	0.315	JB	0.0368	5.37	1
11031	123678-HxCDF	57117-44-9	0.342	JB	0.0321	5.37	1
11031	123789-HxCDF	72918-21-9	0.271	JBQ	0.0220	5.37	1
11031	234678-HxCDF	60851-34-5	0.231	JBQ	0.0174	5.37	1
11031	1234678-HpCDF	67562-39-4	0.189	JBQ	0.0156	5.37	1
11031	1234789-HpCDF	55673-89-7	0.115	JB	0.0174	5.37	1
11031	OCDF	39001-02-0	0.194	JBQ	0.0366	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297657
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15045 SDG#: DX089-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SB-4.0-5.0

LLI Sample # SW 6297657
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:35

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

15045 SDG#: DX089-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 02:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB06-SA5DN-SS-052411 Water
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297658
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB624 SDG#: DX089-07EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.344	U	0.344	2.01	1
10915	12378-PeCDD	40321-76-4	0.449	U	0.449	10.1	1
10915	123478-HxCDD	39227-28-6	0.300	U	0.300	10.1	1
10915	123678-HxCDD	57653-85-7	0.627	JB	0.303	10.1	1
10915	123789-HxCDD	19408-74-3	0.723	JBQ	0.291	10.1	1
10915	1234678-HpCDD	35822-46-9	2.95	JBQ	0.429	10.1	1
10915	OCDD	3268-87-9	6.83	JB	0.463	20.1	1
10915	2378-TCDF	51207-31-9	0.336	U	0.336	2.01	1
10915	12378-PeCDF	57117-41-6	0.774	JBQ	0.257	10.1	1
10915	23478-PeCDF	57117-31-4	0.872	JBQ	0.237	10.1	1
10915	123478-HxCDF	70648-26-9	0.710	JB	0.278	10.1	1
10915	123678-HxCDF	57117-44-9	0.377	JB	0.266	10.1	1
10915	123789-HxCDF	72918-21-9	0.665	JB	0.270	10.1	1
10915	234678-HxCDF	60851-34-5	0.801	JBQ	0.224	10.1	1
10915	1234678-HpCDF	67562-39-4	1.97	JBQ	0.178	10.1	1
10915	1234789-HpCDF	55673-89-7	0.697	JBQ	0.202	10.1	1
10915	OCDF	39001-02-0	2.41	JB	0.520	20.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	52	25 - 181
13C12-123478-HxCDD	50	32 - 141
13C12-123678-HxCDD	53	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB06-SA5DN-SS-052411 Water**
SSFL Area IV Collocated Soil Sampling
EB06-SA5DN-SS-052411

LLI Sample # WW 6297658
LLI Group # 1248481
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 12:30

Submitted: 05/25/2011 09:15
Reported: 06/14/2011 21:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB624 SDG#: DX089-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11147001	06/02/2011 10:39	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11147001	05/27/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248481
Reported: 06/14/11 at 09:46 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11154162401B	Sample number(s): 6297652-6297653,6297655-6297657									
Moisture Content by 160.3						100		80-120		
Batch number: 11160162401B	Sample number(s): 6297654									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11147001	Sample number(s): 6297658									
2378-TCDD	0.409	U	0.409	2.00	pg/l	98		67-158		
12378-PeCDD	1.10	J	0.462	10.0	pg/l	99		70-142		
123478-HxCDD	1.05	J	0.375	10.0	pg/l	97		70-164		
123678-HxCDD	1.65	J	0.380	10.0	pg/l	98		76-134		
123789-HxCDD	1.92	J	0.379	10.0	pg/l	99		64-162		
1234678-HpCDD	5.92	J	0.571	10.0	pg/l	95		70-140		
OCDD	18.2	J	0.525	20.0	pg/l	95		78-144		
2378-TCDF	0.454	J	0.375	2.00	pg/l	102		75-158		
12378-PeCDF	1.09	J	0.272	10.0	pg/l	100		80-134		
23478-PeCDF	1.91	J	0.241	10.0	pg/l	100		68-160		
123478-HxCDF	1.89	J	0.286	10.0	pg/l	99		72-134		
123678-HxCDF	1.45	J	0.277	10.0	pg/l	97		84-130		
123789-HxCDF	1.58	J	0.314	10.0	pg/l	98		78-130		
234678-HxCDF	1.60	J	0.255	10.0	pg/l	97		70-156		
1234678-HpCDF	4.23	J	0.236	10.0	pg/l	94		82-122		
1234789-HpCDF	1.72	J	0.324	10.0	pg/l	99		78-138		
OCDF	6.41	J	0.629	20.0	pg/l	96		63-170		
Batch number: 11158001	Sample number(s): 6297652-6297657									
2378-TCDD	0.0126	U	0.0126	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0396	J	0.0120	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0241	J	0.0104	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0485	J	0.0108	5.00	ng/kg	100		76-134		
123789-HxCDD	0.0535	J	0.0106	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.226	J	0.0145	5.00	ng/kg	99		70-140		
OCDD	0.430	J	0.0177	10.0	ng/kg	99		78-144		
2378-TCDF	0.0170	J	0.0113	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0353	J	0.00640	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0728	J	0.00680	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0553	J	0.00980	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0467	J	0.00830	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0693	J	0.0111	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0579	J	0.00900	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.122	J	0.00650	5.00	ng/kg	100		82-122		
1234789-HpCDF	0.0726	J	0.0116	5.00	ng/kg	100		78-138		
OCDF	0.206	J	0.0225	10.0	ng/kg	101		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248481
Reported: 06/14/11 at 09:46 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11154162401B	Sample number(s): 6297652-6297653,6297655-6297657					BKG: P298873			
Moisture Content by 160.3						9.3	8.5	8	20
Batch number: 11160162401B	Sample number(s): 6297654					BKG: P298871			
Moisture Content by 160.3						6.4	7.5	17	20
Batch number: 11158001	Sample number(s): 6297652-6297657					UNSPK: P298884			
2378-TCDD	97	96	67-158	1	25				
12378-PeCDD	101	100	70-142	0	25				
123478-HxCDD	100	101	70-164	1	25				
123678-HxCDD	101	98	76-134	2	25				
123789-HxCDD	100	98	64-162	2	25				
1234678-HpCDD	99	99	70-140	0	25				
OCDD	98	97	78-144	1	25				
2378-TCDF	106	111	75-158	5	25				
12378-PeCDF	99	100	80-134	2	25				
23478-PeCDF	101	99	68-160	2	25				
123478-HxCDF	100	100	72-134	1	25				
123678-HxCDF	100	99	84-130	0	25				
123789-HxCDF	99	98	78-130	0	25				
234678-HxCDF	102	100	70-156	1	25				
1234678-HpCDF	100	97	82-122	3	25				
1234789-HpCDF	101	100	78-138	0	25				
OCDF	101	100	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11147001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6297658	54	58	48	50	58	59
Blank	56	59	51	54	56	55
OPR	63	72	67	69	70	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6297658	53	59	59	73	52	50

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248481
Reported: 06/14/11 at 09:46 PM

Surrogate Quality Control

Blank	57	53	53	83	54	53
OPR	75	72	73	78	69	66
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6297658	53	56	55	57	62	57
Blank	53	53	54	53	64	56
OPR	67	68	71	73	68	73
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11158001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6297652	75	64	56	66	71	69
6297653	66	61	64	74	62	51
6297654	61	62	63	71	65	56
6297655	66	64	68	75	69	67
6297656	73	66	53	67	71	62
6297657	73	70	35	40	73	67
Blank	63	61	64	73	68	68
MS	66	65	67	73	71	69
MSD	78	71	74	86	77	66
OPR	62	63	66	72	69	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6297652	65	60	51	80	71	68
6297653	76	48	40	82	67	67
6297654	74	50	39	82	70	68
6297655	78	57	48	77	68	73
6297656	83	53	44	92	73	81
6297657	55	59	50	90	75	76
Blank	87	62	51	91	69	77
MS	77	60	51	82	68	75
MSD	95	59	51	93	79	86
OPR	77	59	52	84	70	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6297652	66	76	70	60	70	72
6297653	65	67	62	55	62	70
6297654	66	68	62	52	57	65
6297655	71	73	67	59	62	70
6297656	78	80	74	62	66	75
6297657	76	79	73	66	69	77
Blank	74	76	76	67	56	67
MS	73	74	69	60	62	69
MSD	85	85	79	68	70	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248481
Reported: 06/14/11 at 09:46 PM

Surrogate Quality Control

OPR	71	73	69	61	57	64
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1248481 6297652-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										1
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-186-SA5DN-SS-0.0-0.5	5.24.11	1448	SOIL	NONE	1-SS sleeve			X	X																	
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-187-SA5DN-SS-0.0-0.5	5.24.11	1508	SOIL	NONE	1-SS sleeve			X	X																	
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-188-SA5DN-SS-0.0-0.5	5.24.11	1420	SOIL	NONE	1-SS sleeve			X	X																	
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-189-SA5DN-SS-0.0-0.5	5.24.11	1135	SOIL	NONE	1-SS sleeve			X	X																	
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-191-SA5DN-SS-0.0-0.5	5.24.11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-192-SA5DN-SS-0.0-0.5	5.24.11	1100	SOIL	NONE	1-SS sleeve			X	X																	
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-193-SA5DN-SS-0.0-0.5	5.24.11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-194-SA5DN-SS-0.0-0.5	5.24.11	1400	SOIL	NONE	1-SS sleeve			X	X																	
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-195-SA5DN-SS-0.0-0.5	5.24.11	0944	SOIL	NONE	1-SS sleeve			X	X																	
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0905	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-196-SA5DN-SS-0.0-0.5	5.24.11	0905	SOIL	NONE	1-SS sleeve			X	X																	
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-197-SA5DN-SS-0.0-0.5	5.24.11	0920	SOIL	NONE	1-SS sleeve			X	X																	
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	2-16 oz jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-198-SA5DN-SS-0.0-0.5	5.24.11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-203-SA5DN-SS-0.0-0.5	5.24.11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1005	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-204-SA5DN-SS-0.0-0.5	5.24.11	1005	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/24/2011 / 1700	5/25/11 915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 0887, 0898,0902 8695 1441 8019	

13013 1248481 6297652-58

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: 5-24-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM-$	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpheryls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
					PRIMARY FOR ALL LOCATIONS										VOCs			SECONDARY FOR ALL LOCATIONS										
SL-139-SA5DN-SB-2.5	5.24.11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-139-SA5DN-SB-2.0-3.0	5.24.11	1045	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-145-SA5DN-SB-2.5	5.24.11	1215	SOIL	NONE	4-Encores										X	X											
SL-145-SA5DN-SB-2.0-3.0	5.24.11	1220	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-146-SA5DN-SB-2.5	5.24.11	1440	SOIL	NONE	4-Encores										X	X											
SL-146-SA5DN-SB-2.0-3.0	5.24.11	1440	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-150-SA5DN-SB-4.5	5.24.11	1525	SOIL	NONE	4-Encores										X	X											
SL-150-SA5DN-SB-4.0-5.0	5.24.11	1535	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-052411	5.24.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/24/2011 / 1700	Gary Mark 5125M 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8695 1442 0887, 0898,0902 8695 1441 8019	

13013 1248481 6297652-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B		
EB06-SA5DN-SS-052411	05.24.11	1230	WATER	NONE	7-1 liter ambers			X	X	X					X	X													
EB06-SA5DN-SS-052411	05.24.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X																	
EB06-SA5DN-SS-052411	05.24.11	1230	WATER	HNO3	1-500 mL poly	X																								
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	HCL	2-40mL Vials																									
EB05-SA5DN-SS-052311	05.23.11	1405	WATER	NONE	4-40mL Vials																X								X	

Relinquished by: (*Signature*) — Date/Time: 05/24/2011 / 1700

Received for Laboratory by: (*Signature*) — 5/25/11 915

Received by: (*Signature*) — Date/Time

Airbill No.(s):
8695 1442 0887, 0898,0902
8695 1441 8019

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 15, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/26/2011
Group Number: 1248705
SDG: DE162
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-130-SA5DN-SB-4.0-5.0 Soil	6298869
SL-133-SA5DN-SB-4.0-5.0 Soil	6298870
SL-140-SA5DN-SB-2.0-3.0 Soil	6298871
SL-142-SA5DN-SB-2.0-3.0 Soil	6298872
SL-144-SA5DN-SB-2.0-3.0 Soil	6298873
SL-144-SA5DN-SB-2.0-3.0MS Soil	6298874
SL-144-SA5DN-SB-2.0-3.0MSD Soil	6298875
SL-144-SA5DN-SB-2.0-3.0DUP Soil	6298876
DUP07-SA5DN-QC-052511 Soil	6298877
TB-052511 Water	6298878

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298869
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

130-- SDG#: DE162-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2		6.4	7.7		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.85
06192	Methylene Chloride	75-09-2	1.3	J	0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

*=This limit was used in the evaluation of the final result
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Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298869
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

130-- SDG#: DE162-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.85
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.36
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298869
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

130-- SDG#: DE162-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298869
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

130-- SDG#: DE162-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,300		5.49	21.8		1
07914	Boron	7440-42-8	0.971	U	0.971	5.46		1
01650	Calcium	7440-70-2	3,390		6.69	21.8		1
01654	Iron	7439-89-6	24,600		5.14	21.8		1
01656	Lithium	7439-93-2	25.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,640		2.77	10.9		1
06958	Manganese	7439-96-5	369		0.0851	0.546		1
10145	Phosphorus	7723-14-0	245		0.611	10.9		1
01662	Potassium	7440-09-7	1,950		19.6	54.6		1
01667	Sodium	7440-23-5	213		40.7	109		1
07968	Strontium	7440-24-6	23.9		0.0677	0.546		1
06969	Tin	7440-31-5	2.79	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,250		0.415	1.09		1
10146	Zirconium	7440-67-7	4.74	J	0.917	5.46		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.139	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	20.1		0.0908	0.454		2
06126	Barium	7440-39-3	101		0.123	0.454		2
06127	Beryllium	7440-41-7	0.863		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0612	J	0.0454	0.114		2
06131	Chromium	7440-47-3	35.9		0.136	0.454		2
06132	Cobalt	7440-48-4	11.1		0.0227	0.114		2
06133	Copper	7440-50-8	11.0		0.0749	0.454		2
06135	Lead	7439-92-1	9.39		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.425		0.0568	0.114		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298869
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

130-- SDG#: DE162-01

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	22.6	0.114	0.454		2
06141	Selenium		7782-49-2	0.256 J	0.0454	0.454		2
06142	Silver		7440-22-4	0.0609 J	0.0136	0.114		2
06145	Thallium		7440-28-0	0.244	0.0341	0.114		2
06148	Vanadium		7440-62-2	54.4	0.0250	0.114		2
06149	Zinc		7440-66-6	55.9	0.636	3.41		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0140 J	0.0030	0.106		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.5	0.91	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.2 U	10.2	34.1		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.7	0.23	1.1		1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.59	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-130-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 14:52	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 22:34	Sara E Johnson	23.36

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Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298869
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

130-- SDG#: DE162-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:12	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:55	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:09	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 06:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 22:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 03:07	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 05:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298869
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

130-- SDG#: DE162-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 15:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 06:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11148243201A	06/01/2011 15:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0		6.1	7.3		0.81
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.81
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.81
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.81
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.81
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.81
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.81
06192	2-Butanone	78-93-3	1.1	U	1.1	7.3		0.81
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.81
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.81
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.81
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.81
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.81
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.81
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.27	U	0.27	3.7		0.81
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.81
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.81
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.81
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.81
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.81
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64	U	0.64	3.7		0.81
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.81
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.81
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.81
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.81
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.81
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.81
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.81
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.81
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.81
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.81
06192	cis-1,2-Dichloroethene	156-59-2	0.17	U	0.17	3.7		0.81
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.81
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.81
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.81
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.81
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.81
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.81
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.81
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.81
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.81
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.81
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.81
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.3		0.81
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.81
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.81
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.81
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.3		0.81
06192	Methylene Chloride	75-09-2	1.1	J	0.22	3.7		0.81
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.81

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Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.81
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.81
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.81
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.81
06192	Toluene	108-88-3	0.07	U	0.07	3.7		0.81
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.81
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.81
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.81
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.81
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.81
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.81
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.81
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.81
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.81
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.81
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.81
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.81
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.2	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,300		5.42	21.5		1
07914	Boron	7440-42-8	0.959	U	0.959	5.39		1
01650	Calcium	7440-70-2	3,420		6.60	21.5		1
01654	Iron	7439-89-6	26,100		5.07	21.5		1
01656	Lithium	7439-93-2	38.1		0.24	2.2		1
01657	Magnesium	7439-95-4	5,420		2.74	10.8		1

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Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	276		0.0840	0.539		1
10145	Phosphorus	7723-14-0	287		0.603	10.8		1
01662	Potassium	7440-09-7	1,870		19.4	53.9		1
01667	Sodium	7440-23-5	146		40.2	108		1
07968	Strontium	7440-24-6	28.0		0.0668	0.539		1
06969	Tin	7440-31-5	2.72	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,250		0.409	1.08		1
10146	Zirconium	7440-67-7	5.54		0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0679	U	0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.8		0.0905	0.452		2
06126	Barium	7440-39-3	105		0.122	0.452		2
06127	Beryllium	7440-41-7	0.785		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.115		0.0452	0.113		2
06131	Chromium	7440-47-3	25.5		0.136	0.452		2
06132	Cobalt	7440-48-4	6.96		0.0226	0.113		2
06133	Copper	7440-50-8	9.83		0.0747	0.452		2
06135	Lead	7439-92-1	7.02		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.415		0.0566	0.113		2
06139	Nickel	7440-02-0	18.5		0.113	0.452		2
06141	Selenium	7782-49-2	0.0545	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0901	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.257		0.0339	0.113		2
06148	Vanadium	7440-62-2	44.2		0.0249	0.113		2
06149	Zinc	7440-66-6	51.4		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1

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Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-133-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 15:14	Chelsea B Eastep	0.81
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 22:54	Sara E Johnson	20.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:17	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:14	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 17:12	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 07:10	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 23:28	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34A	05/31/2011 18:14	Elizabeth J Marin	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:14	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/03/2011 22:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 21:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 03:26	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1

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Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

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CDM Federal Programs Corp.
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-133- SDG#: DE162-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 09:39	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111470018A	05/28/2011 01:38	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111470006A	05/30/2011 12:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 08:52	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111470018A	05/27/2011 18:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111470006A	05/30/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 05:10	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298870
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-133- SDG#: DE162-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 15:15	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11152621201B	06/02/2011 15:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 06:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11148243201A	06/01/2011 15:27	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201B	06/03/2011 09:05	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201B	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.8		6.3	7.6		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.88
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.88
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.88
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.88
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.88
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.88
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.88
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.88
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.88
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.88
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.88
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.88
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.88
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.88
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.88
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.88
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.88
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.88
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.88
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.88
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.88
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.88
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.88
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.88
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.88
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.88
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.88
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.88
06192	Methylene Chloride	75-09-2	1.3	J	0.23	3.8		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.88

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Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.88
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.88
06192	Toluene	108-88-3	0.08	U	0.08	3.8		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.88
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.88
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.88
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.88
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.88
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.8	U	17.8	35.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1

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Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	1.5		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,500		5.17	20.5		1
07914	Boron	7440-42-8	0.914	U	0.914	5.14		1
01650	Calcium	7440-70-2	3,160		6.30	20.5		1
01654	Iron	7439-89-6	27,000		4.84	20.5		1
01656	Lithium	7439-93-2	35.2		0.23	2.1		1
01657	Magnesium	7439-95-4	5,170		2.61	10.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	246		0.0801	0.514		1
10145	Phosphorus	7723-14-0	199		0.575	10.3		1
01662	Potassium	7440-09-7	1,940		18.5	51.4		1
01667	Sodium	7440-23-5	122		38.3	103		1
07968	Strontium	7440-24-6	27.3		0.0637	0.514		1
06969	Tin	7440-31-5	2.91	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,330		0.390	1.03		1
10146	Zirconium	7440-67-7	5.30		0.863	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0981	J	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.9		0.0846	0.423		2
06126	Barium	7440-39-3	123		0.114	0.423		2
06127	Beryllium	7440-41-7	0.892		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0729	J	0.0423	0.106		2
06131	Chromium	7440-47-3	27.4		0.127	0.423		2
06132	Cobalt	7440-48-4	11.8		0.0212	0.106		2
06133	Copper	7440-50-8	11.2		0.0698	0.423		2
06135	Lead	7439-92-1	9.33		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.516		0.0529	0.106		2
06139	Nickel	7440-02-0	16.4		0.106	0.423		2
06141	Selenium	7782-49-2	0.0639	J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0843	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.282		0.0317	0.106		2
06148	Vanadium	7440-62-2	52.4		0.0233	0.106		2
06149	Zinc	7440-66-6	47.7		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0042	J	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1

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Analysis Report

Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	6.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-140-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 15:37	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 23:14	Sara E Johnson	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:20	Lois E Hiltz	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11146SLF026	06/08/2011 17:29	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 07:35	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 23:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11146SLF026	05/27/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34A	05/31/2011 18:50	Elizabeth J Marin	21.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:19	Lois E Hiltz	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/03/2011 23:41	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 21:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 03:44	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1

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Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 10:04	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111470018A	05/28/2011 01:53	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111470006A	05/30/2011 12:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111510027A	06/02/2011 09:37	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111510027A	06/01/2011 08:45	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111470018A	05/27/2011 18:50	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111470006A	05/30/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 05:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1

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Analysis Report

Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298871
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-140- SDG#: DE162-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 15:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11152621201B	06/02/2011 15:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 10:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11148243201A	06/01/2011 15:33	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11153102201B	06/03/2011 09:07	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11153102201B	06/02/2011 10:00	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298872
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-142- SDG#: DE162-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.9		7.1	8.5		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.97
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.97
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.97
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.97
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.3		0.97
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.97
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.3		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.97
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.97
06192	Methylene Chloride	75-09-2	1.1	J	0.26	4.3		0.97
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.97

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Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298872
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-142- SDG#: DE162-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.97
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.97
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.97
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.97
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.97
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.27
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298872
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-142- SDG#: DE162-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

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Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298872
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-142- SDG#: DE162-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,500		5.36	21.3		1
07914	Boron	7440-42-8	0.948	U	0.948	5.33		1
01650	Calcium	7440-70-2	5,070		6.53	21.3		1
01654	Iron	7439-89-6	28,700		5.02	21.3		1
01656	Lithium	7439-93-2	37.0		0.23	2.1		1
01657	Magnesium	7439-95-4	6,760		2.71	10.7		1
06958	Manganese	7439-96-5	323		0.0831	0.533		1
10145	Phosphorus	7723-14-0	635		0.597	10.7		1
01662	Potassium	7440-09-7	2,530		19.2	53.3		1
01667	Sodium	7440-23-5	352		39.8	107		1
07968	Strontium	7440-24-6	128		0.0661	0.533		1
06969	Tin	7440-31-5	2.81	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,440		0.405	1.07		1
10146	Zirconium	7440-67-7	7.07		0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.247		0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	20.8		0.0861	0.430		2
06126	Barium	7440-39-3	256		0.291	1.08		5
06127	Beryllium	7440-41-7	1.17		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.166		0.0430	0.108		2
06131	Chromium	7440-47-3	37.3		0.129	0.430		2
06132	Cobalt	7440-48-4	19.8		0.0215	0.108		2
06133	Copper	7440-50-8	27.2		0.0710	0.430		2
06135	Lead	7439-92-1	13.5		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.729		0.0538	0.108		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298872
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-142- SDG#: DE162-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	33.6	0.108	0.430		2
06141	Selenium	7782-49-2	0.319 J	0.0430	0.430		2
06142	Silver	7440-22-4	0.0496 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.469	0.0323	0.108		2
06148	Vanadium	7440-62-2	66.9	0.0237	0.108		2
06149	Zinc	7440-66-6	114	0.603	3.23		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	32.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-142-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 16:00	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 23:34	Sara E Johnson	24.27

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Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298872
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-142- SDG#: DE162-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:26	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:56	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:24	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 08:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/03/2011 00:31	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 04:03	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 05:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:56	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298872
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-142- SDG#: DE162-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 15:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 10:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11148243201A	06/01/2011 15:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298873
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.4		7.0	8.4		0.95
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.95
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

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Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298873
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.9	U	5.9	18		26.6
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298873
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298873
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,900		5.38	21.4		1
07914	Boron	7440-42-8	4.76	U	4.76	26.8		5
01650	Calcium	7440-70-2	5,500		6.56	21.4		1
01654	Iron	7439-89-6	41,200		25.2	107		5
01656	Lithium	7439-93-2	44.1		0.24	2.1		1
01657	Magnesium	7439-95-4	7,180		2.72	10.7		1
06958	Manganese	7439-96-5	443		0.0835	0.535		1
10145	Phosphorus	7723-14-0	706		0.599	10.7		1
01662	Potassium	7440-09-7	3,420		19.3	53.5		1
01667	Sodium	7440-23-5	400		39.9	107		1
07968	Strontium	7440-24-6	33.9		0.0664	0.535		1
06969	Tin	7440-31-5	4.03	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,830		0.407	1.07		1
10146	Zirconium	7440-67-7	6.83		0.899	5.35		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.117	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.1		0.0873	0.437		2
06126	Barium	7440-39-3	165		0.118	0.437		2
06127	Beryllium	7440-41-7	0.842		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0830	J	0.0437	0.109		2
06131	Chromium	7440-47-3	23.1		0.131	0.437		2
06132	Cobalt	7440-48-4	13.9		0.0218	0.109		2
06133	Copper	7440-50-8	18.7		0.0720	0.437		2
06135	Lead	7439-92-1	9.30		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.475		0.0546	0.109		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298873
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	17.3	0.109	0.437		2
06141	Selenium	7782-49-2	0.104 J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0284 J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.394	0.0327	0.109		2
06148	Vanadium	7440-62-2	45.7	0.0240	0.109		2
06149	Zinc	7440-66-6	98.9	0.611	3.27		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0041 J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.3	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-144-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 16:22	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/27/2011 00:14	Sara E Johnson	26.6

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Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298873
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:28	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 02:33	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 14:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 04:21	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/03/2011 18:49	John P Hook	5
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011 18:49	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 10:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 10:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 10:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 10:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298873
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 14:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 05:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11148243201A	06/01/2011 16:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298874
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	170	7.4	8.8		1
06192	Benzene	71-43-2	23	0.11	4.4		1
06192	Bromobenzene	108-86-1	21	0.14	4.4		1
06192	Bromochloromethane	74-97-5	24	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	22	0.09	4.4		1
06192	Bromoform	75-25-2	21	0.44	4.4		1
06192	Bromomethane	74-83-9	16	0.28	4.4		1
06192	2-Butanone	78-93-3	150	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	21	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	21	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	21	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	24	0.15	4.4		1
06192	Chlorobenzene	108-90-7	22	0.12	4.4		1
06192	Chloroethane	75-00-3	14	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.33	4.4		1
06192	Chloroform	67-66-3	23	0.13	4.4		1
06192	Chloromethane	74-87-3	15	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	21	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	22	0.15	4.4		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	21	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	22	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	22	0.19	4.4		1
06192	Dibromomethane	74-95-3	22	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	22	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	21	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	21	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	14	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	23	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	24	0.17	4.4		1
06192	1,1-Dichloroethene	75-35-4	25	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	23	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	22	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	22	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	22	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	23	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	23	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	21	0.19	4.4		1
06192	Ethylbenzene	100-41-4	22	0.07	4.4		1
06192	Freon 113	76-13-1	25	0.12	4.4		1
06192	Hexachlorobutadiene	87-68-3	18	0.15	4.4		1
06192	2-Hexanone	591-78-6	110	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	22	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	21	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	21	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	100	0.43	8.8		1
06192	Methylene Chloride	75-09-2	24	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	22	0.08	4.4		1
06192	Styrene	100-42-5	23	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	23	0.12	4.4		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298874
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	1,1,2,2-Tetrachloroethane	79-34-5	20		0.25	4.4		1
06192	Tetrachloroethene	127-18-4	23		0.22	4.4		1
06192	Toluene	108-88-3	23		0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	20		0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	19		0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	23		0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	22		0.30	4.4		1
06192	Trichloroethene	79-01-6	22		0.17	4.4		1
06192	Trichlorofluoromethane	75-69-4	20		0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	21		0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	21		0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	22		0.11	4.4		1
06192	Vinyl Chloride	75-01-4	16		0.22	4.4		1
06192	m+p-Xylene	179601-23-1	46		0.19	4.4		1
06192	o-Xylene	95-47-6	22		0.19	4.4		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130		4.9	15		22.44
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		18	180		1
04688	Acenaphthylene	208-96-8	1,500		18	180		1
04688	Aniline	62-53-3	1,100		180	550		1
04688	Anthracene	120-12-7	1,500		18	180		1
04688	Benzidine	92-87-5	1,700	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,500		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,400		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,300		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,300		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	550		1
04688	Benzyl alcohol	100-51-6	1,500		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,500		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,500		18	180		1
04688	Carbazole	86-74-8	1,500		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		37	180		1
04688	4-Chloroaniline	106-47-8	860		74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,400		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,000		18	180		1
04688	2-Chlorophenol	95-57-8	1,600		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		37	180		1
04688	Chrysene	218-01-9	1,600		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,300		18	180		1
04688	Dibenzofuran	132-64-9	1,500		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,300		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,300		18	180		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298874
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,4-Dichlorobenzene	106-46-7	1,300	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	720	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,600	18	180		1
04688	Diethylphthalate	84-66-2	1,500	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,500	37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,700	37	180		1
04688	Dimethylphthalate	131-11-3	1,500	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,700	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,500	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,500	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500	18	370		1
04688	Fluoranthene	206-44-0	1,600	18	180		1
04688	Fluorene	86-73-7	1,500	18	180		1
04688	Hexachlorobenzene	118-74-1	1,500	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,400	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	2,500	180	550		1
04688	Hexachloroethane	67-72-1	1,200	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,300	18	180		1
04688	Isophorone	78-59-1	1,500	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,500	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,400	18	180		1
04688	2-Methylphenol	95-48-7	1,500	37	180		1
04688	4-Methylphenol	106-44-5	1,500	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	18	180		1
04688	2-Nitroaniline	88-74-4	1,500	18	180		1
04688	3-Nitroaniline	99-09-2	1,500	37	180		1
04688	4-Nitroaniline	100-01-6	1,200	74	180		1
04688	Nitrobenzene	98-95-3	1,400	18	180		1
04688	2-Nitrophenol	88-75-5	1,500	18	180		1
04688	4-Nitrophenol	100-02-7	1,200	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,500	18	180		1
04688	Pentachlorophenol	87-86-5	1,400	180	550		1
04688	Phenanthrene	85-01-8	1,500	18	180		1
04688	Phenol	108-95-2	1,400	18	180		1
04688	Pyrene	129-00-0	1,600	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,500	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500	37	180		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298874
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.72	1.8		1
10138	Acenaphthylene	208-96-8	34		0.36	1.8		1
10138	Anthracene	120-12-7	37		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	38		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	48		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	58		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	24		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	49		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	36		6.5	20		1
10138	Di-n-butylphthalate	84-74-2	40		6.5	20		1
10138	Chrysene	218-01-9	37		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	32		0.72	1.8		1
10138	Diethylphthalate	84-66-2	37		6.5	20		1
10138	Dimethylphthalate	131-11-3	37		6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38		6.5	20		1
10138	Fluoranthene	206-44-0	41		0.72	1.8		1
10138	Fluorene	86-73-7	37		0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	36		0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	33		0.72	1.8		1
10138	Naphthalene	91-20-3	34		0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	38		0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	56		6.5	20		1
10138	Phenanthrene	85-01-8	36		0.72	1.8		1
10138	Pyrene	129-00-0	32		0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	19		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	20		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,500		5.55	22.1		1
07914	Boron	7440-42-8	206		4.91	27.6		5
01650	Calcium	7440-70-2	5,160		6.76	22.1		1
01654	Iron	7439-89-6	35,300		26.0	110		5
01656	Lithium	7439-93-2	152		0.24	2.2		1
01657	Magnesium	7439-95-4	8,170		2.80	11.0		1
06958	Manganese	7439-96-5	301		0.0860	0.551		1
10145	Phosphorus	7723-14-0	463		0.617	11.0		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298874
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	4,320	19.8	55.1		1
01667	Sodium	7440-23-5	1,310	41.1	110		1
07968	Strontium	7440-24-6	151	0.0684	0.551		1
06969	Tin	7440-31-5	375	1.10	11.0		1
06970	Titanium	7440-32-6	1,800	0.419	1.10		1
10146	Zirconium	7440-67-7	111	0.926	5.51		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.561	0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	17.9	0.0865	0.432		2
06126	Barium	7440-39-3	205	0.292	1.08		5
06127	Beryllium	7440-41-7	1.86	0.0173	0.108		2
06128	Cadmium	7440-43-9	1.18	0.0432	0.108		2
06131	Chromium	7440-47-3	44.8	0.130	0.432		2
06132	Cobalt	7440-48-4	81.5	0.0216	0.108		2
06133	Copper	7440-50-8	31.7	0.0713	0.432		2
06135	Lead	7439-92-1	18.7	0.0112	0.216		2
06138	Molybdenum	7439-98-7	10.6	0.0540	0.108		2
06139	Nickel	7440-02-0	34.8	0.108	0.432		2
06141	Selenium	7782-49-2	2.36	0.0432	0.432		2
06142	Silver	7440-22-4	11.0	0.0130	0.108		2
06145	Thallium	7440-28-0	0.799	0.0324	0.108		2
06148	Vanadium	7440-62-2	73.5	0.0238	0.108		2
06149	Zinc	7440-66-6	93.8	0.605	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	17.0	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	540	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.1	1.1	5.5		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298874
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-144-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 16:44	Chelsea B Eastep	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AB	05/27/2011 10:48	Jason M Long	22.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:34	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:32	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 02:59	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 15:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 04:40	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	2	111525708001	06/03/2011 19:00	John P Hook	5
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011 19:00	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 21:01	David K Beck	5
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298874
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 10:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 10:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 10:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 14:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 06:02	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11148243201A	06/01/2011 16:13	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298875
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.9	8.2		0.93
06192	Benzene	71-43-2	21	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	20	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	21	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	20	0.08	4.1		0.93
06192	Bromoform	75-25-2	19	0.41	4.1		0.93
06192	Bromomethane	74-83-9	14	0.26	4.1		0.93
06192	2-Butanone	78-93-3	130	1.3	8.2		0.93
06192	n-Butylbenzene	104-51-8	20	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	20	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	20	0.16	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	21	0.14	4.1		0.93
06192	Chlorobenzene	108-90-7	21	0.11	4.1		0.93
06192	Chloroethane	75-00-3	13	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.31	4.1		0.93
06192	Chloroform	67-66-3	21	0.12	4.1		0.93
06192	Chloromethane	74-87-3	14	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	20	0.14	4.1		0.93
06192	4-Chlorotoluene	106-43-4	20	0.14	4.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	19	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	20	0.17	4.1		0.93
06192	Dibromomethane	74-95-3	19	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	20	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	19	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	19	0.16	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	12	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	21	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	22	0.15	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	22	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	20	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	20	0.17	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	20	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	21	0.17	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	21	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.16	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.17	4.1		0.93
06192	Ethylbenzene	100-41-4	21	0.06	4.1		0.93
06192	Freon 113	76-13-1	22	0.11	4.1		0.93
06192	Hexachlorobutadiene	87-68-3	16	0.14	4.1		0.93
06192	2-Hexanone	591-78-6	94	1.6	8.2		0.93
06192	Isopropylbenzene	98-82-8	21	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	20	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.21	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	91	0.40	8.2		0.93
06192	Methylene Chloride	75-09-2	22	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	20	0.07	4.1		0.93
06192	Styrene	100-42-5	21	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.11	4.1		0.93

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298875
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	1,1,2,2-Tetrachloroethane	79-34-5	18		0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	21		0.21	4.1		0.93
06192	Toluene	108-88-3	21		0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.14	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	17		0.18	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	21		0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	20		0.28	4.1		0.93
06192	Trichloroethene	79-01-6	20		0.15	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	18		0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	19		0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	20		0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	20		0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	15		0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	42		0.17	4.1		0.93
06192	o-Xylene	95-47-6	20		0.17	4.1		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	150		5.5	17		24.95
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	1,400		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	2,900	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		18	180		1
04688	Benzoic acid	65-85-0	1,700		180	550		1
04688	Benzyl alcohol	100-51-6	1,800		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180		1
04688	Butylbenzylphthalate	85-68-7	1,900		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180		1
04688	4-Chloroaniline	106-47-8	1,100		74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,300		18	180		1
04688	2-Chlorophenol	95-57-8	1,800		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298875
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,4-Dichlorobenzene	106-46-7	1,500	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	970	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,800	18	180		1
04688	Diethylphthalate	84-66-2	1,800	18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,800	37	180		1
04688	3,5-Dimethylphenol	108-68-9	2,000	37	180		1
04688	Dimethylphthalate	131-11-3	1,800	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	180	550		1
04688	2,4-Dinitrophenol	51-28-5	2,900	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	18	370		1
04688	Fluoranthene	206-44-0	1,800	18	180		1
04688	Fluorene	86-73-7	1,800	18	180		1
04688	Hexachlorobenzene	118-74-1	1,700	18	180		1
04688	Hexachlorobutadiene	87-68-3	1,600	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	3,100	180	550		1
04688	Hexachloroethane	67-72-1	1,400	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	18	180		1
04688	Isophorone	78-59-1	1,700	18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700	18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600	18	180		1
04688	2-Methylphenol	95-48-7	1,700	37	180		1
04688	4-Methylphenol	106-44-5	1,700	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	18	180		1
04688	2-Nitroaniline	88-74-4	1,900	18	180		1
04688	3-Nitroaniline	99-09-2	1,900	37	180		1
04688	4-Nitroaniline	100-01-6	1,500	74	180		1
04688	Nitrobenzene	98-95-3	1,700	18	180		1
04688	2-Nitrophenol	88-75-5	1,700	18	180		1
04688	4-Nitrophenol	100-02-7	1,600	180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800	18	180		1
04688	Pentachlorophenol	87-86-5	1,700	180	550		1
04688	Phenanthrene	85-01-8	1,700	18	180		1
04688	Phenol	108-95-2	1,600	18	180		1
04688	Pyrene	129-00-0	1,800	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298875
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.73	1.8		1
10138	Acenaphthylene	208-96-8	33		0.37	1.8		1
10138	Anthracene	120-12-7	37		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	38		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	47		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	50		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	24		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	52		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	38		6.6	20		1
10138	Di-n-butylphthalate	84-74-2	41		6.6	20		1
10138	Chrysene	218-01-9	36		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	32		0.73	1.8		1
10138	Diethylphthalate	84-66-2	36		6.6	20		1
10138	Dimethylphthalate	131-11-3	35		6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.6	20		1
10138	Fluoranthene	206-44-0	41		0.73	1.8		1
10138	Fluorene	86-73-7	36		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	35		0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8		1
10138	Naphthalene	91-20-3	34		0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	37		0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	55		6.6	20		1
10138	Phenanthrene	85-01-8	35		0.73	1.8		1
10138	Pyrene	129-00-0	33		0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	20		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	20		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,500		5.33	21.2		1
07914	Boron	7440-42-8	199		4.72	26.5		5
01650	Calcium	7440-70-2	5,620		6.50	21.2		1
01654	Iron	7439-89-6	40,400		25.0	106		5
01656	Lithium	7439-93-2	155		0.23	2.1		1
01657	Magnesium	7439-95-4	7,760		2.69	10.6		1
06958	Manganese	7439-96-5	307		0.0827	0.530		1
10145	Phosphorus	7723-14-0	396		0.594	10.6		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298875
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		mg/kg	mg/kg	mg/kg	mg/kg	
01662	Potassium	7440-09-7	3,840	19.1	53.0		1
01667	Sodium	7440-23-5	1,340	39.5	106		1
07968	Strontium	7440-24-6	146	0.0657	0.530		1
06969	Tin	7440-31-5	363	1.06	10.6		1
06970	Titanium	7440-32-6	1,730	0.403	1.06		1
10146	Zirconium	7440-67-7	109	0.891	5.30		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.677	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	14.0	0.0840	0.420		2
06126	Barium	7440-39-3	162	0.113	0.420		2
06127	Beryllium	7440-41-7	1.40	0.0168	0.105		2
06128	Cadmium	7440-43-9	1.21	0.0420	0.105		2
06131	Chromium	7440-47-3	33.7	0.126	0.420		2
06132	Cobalt	7440-48-4	63.8	0.0210	0.105		2
06133	Copper	7440-50-8	25.7	0.0693	0.420		2
06135	Lead	7439-92-1	11.7	0.0109	0.210		2
06138	Molybdenum	7439-98-7	11.1	0.0525	0.105		2
06139	Nickel	7440-02-0	28.2	0.105	0.420		2
06141	Selenium	7782-49-2	2.28	0.0420	0.420		2
06142	Silver	7440-22-4	11.0	0.0126	0.105		2
06145	Thallium	7440-28-0	0.914	0.0315	0.105		2
06148	Vanadium	7440-62-2	55.5	0.0231	0.105		2
06149	Zinc	7440-66-6	98.2	0.588	3.15		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.165	0.0029	0.102		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-144-SA5B-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298875
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 17:06	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AB	05/27/2011 11:08	Jason M Long	24.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:36	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 03:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/02/2011 15:57	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 04:58	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	2	111525708001	06/03/2011 19:04	John P Hook	5
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011 19:04	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 04:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:54	Nelli S Markaryan	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5DN-SB-2.0-3.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298875
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298876
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.44	21.6		1
07914	Boron	7440-42-8	4.81	U	4.81	27.0		5
01650	Calcium	7440-70-2	5,480		6.63	21.6		1
01654	Iron	7439-89-6	41,000		25.5	108		5
01656	Lithium	7439-93-2	45.1		0.24	2.2		1
01657	Magnesium	7439-95-4	7,280		2.75	10.8		1
06958	Manganese	7439-96-5	392		0.0843	0.540		1
10145	Phosphorus	7723-14-0	634		0.605	10.8		1
01662	Potassium	7440-09-7	3,260		19.5	54.0		1
01667	Sodium	7440-23-5	439		40.3	108		1
07968	Strontium	7440-24-6	37.8		0.0670	0.540		1
06969	Tin	7440-31-5	3.84	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,820		0.411	1.08		1
10146	Zirconium	7440-67-7	7.85		0.908	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0662	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.8		0.0882	0.441		2
06126	Barium	7440-39-3	188		0.119	0.441		2
06127	Beryllium	7440-41-7	0.869		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.0936	J	0.0441	0.110		2
06131	Chromium	7440-47-3	23.8		0.132	0.441		2
06132	Cobalt	7440-48-4	9.18		0.0221	0.110		2
06133	Copper	7440-50-8	17.9		0.0728	0.441		2
06135	Lead	7439-92-1	8.77		0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.449		0.0551	0.110		2
06139	Nickel	7440-02-0	17.9		0.110	0.441		2
06141	Selenium	7782-49-2	0.101	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.117		0.0132	0.110		2
06145	Thallium	7440-28-0	0.400		0.0331	0.110		2
06148	Vanadium	7440-62-2	45.7		0.0243	0.110		2
06149	Zinc	7440-66-6	96.9		0.617	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.5		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.22	1.1		1

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Sample Description: SL-144-SA5DN-SB-2.0-3.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298876
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	2	111525708001	06/03/2011	18:56	John P Hook	5
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011	18:56	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011	04:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011	10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011	10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011	10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011	10:56	Choon Y Tian	2

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298876
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-144- SDG#: DE162-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 10:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 14:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 05:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11148243201A	06/01/2011 16:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402A	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298877
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP7- SDG#: DE162-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	14		7.0	8.4		0.98
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.98
06192	Methylene Chloride	75-09-2	1.4	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298877
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP7- SDG#: DE162-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		26.43
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298877
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP7- SDG#: DE162-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1

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Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298877
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP7- SDG#: DE162-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,800		5.22	20.8		1
07914	Boron	7440-42-8	0.924	U	0.924	5.19		1
01650	Calcium	7440-70-2	3,950		6.37	20.8		1
01654	Iron	7439-89-6	28,300		24.5	104		5
01656	Lithium	7439-93-2	32.7		0.23	2.1		1
01657	Magnesium	7439-95-4	6,270		2.64	10.4		1
06958	Manganese	7439-96-5	277		0.0810	0.519		1
10145	Phosphorus	7723-14-0	446		0.581	10.4		1
01662	Potassium	7440-09-7	2,410		18.7	51.9		1
01667	Sodium	7440-23-5	216		38.7	104		1
07968	Strontium	7440-24-6	27.3		0.0644	0.519		1
06969	Tin	7440-31-5	2.88	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,330		0.395	1.04		1
10146	Zirconium	7440-67-7	6.00		0.872	5.19		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.105	J	0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0839	0.419		2
06126	Barium	7440-39-3	113		0.113	0.419		2
06127	Beryllium	7440-41-7	0.602		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0534	J	0.0419	0.105		2
06131	Chromium	7440-47-3	24.2		0.126	0.419		2
06132	Cobalt	7440-48-4	6.60		0.0210	0.105		2
06133	Copper	7440-50-8	13.9		0.0692	0.419		2
06135	Lead	7439-92-1	7.73		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.427		0.0524	0.105		2

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Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298877
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP7- SDG#: DE162-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	16.1	0.105	0.419		2
06141	Selenium	7782-49-2	0.145 J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0155 J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.267	0.0315	0.105		2
06148	Vanadium	7440-62-2	45.3	0.0231	0.105		2
06149	Zinc	7440-66-6	60.2	0.587	3.15		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.64	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 17:29	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111462AA	05/26/2011 23:54	Sara E Johnson	26.43
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:43	Lois E Hiltz	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298877
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP7- SDG#: DE162-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114624530	05/26/2011 20:57	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114624530	05/26/2011 20:40	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11151SLD026	06/04/2011 08:25	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11146SLB026	06/03/2011 01:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11146SLB026	05/27/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11151SLD026	06/01/2011 07:15	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510010A	06/07/2011 05:17	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510010A	05/31/2011 15:30	Wanda F Oswald	1
01643	Aluminum	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111525708001	06/03/2011 19:23	John P Hook	5
01656	Lithium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111525708001	06/02/2011 05:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111571026002D	06/07/2011 11:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111571026002C	06/07/2011 11:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111571026002B	06/07/2011 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111571026002A	06/07/2011 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111525711001	06/01/2011 19:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708001	06/01/2011 11:53	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026002	06/06/2011 11:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711001	06/01/2011 14:07	James L Mertz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298877
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP7- SDG#: DE162-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621201B	06/02/2011 16:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621201B	06/08/2011 17:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11148243201A	06/01/2011 16:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621201B	06/01/2011 06:10	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621201B	06/03/2011 07:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11148243201A	05/28/2011 04:45	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: TB-052511 Water
SSFL Area IV Collocated Soil Sampling
TB-052511

LLI Sample # WW 6298878
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB525 SDG#: DE162-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-052511 Water
SSFL Area IV Collocated Soil Sampling
TB-052511

LLI Sample # WW 6298878
LLI Group # 1248705
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:00

Submitted: 05/26/2011 10:20
Reported: 06/15/2011 09:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB525 SDG#: DE162-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111471AA	05/27/2011 22:27	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111461AA	05/26/2011 13:42	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111461AA	05/26/2011 13:42	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111471AA	05/27/2011 22:27	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11154A20A	06/03/2011 11:35	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11154A20A	06/03/2011 11:35	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111521AA	Sample number(s): 6298869-6298875,6298877									
Acetone	8.6		6.7	8.0	ug/kg	116		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	112		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	104		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	66		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	59		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	98		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	66		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	78	74	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	117		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	107		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	107		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	60		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	114		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	97		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	108		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	98	78-120	4	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	126		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	110		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	127		61-134		
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	101		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	69		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
Batch number: E111461AA	Sample number(s): 6298878									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	97	106	80-123	9	30
Batch number: E111462AA	Sample number(s): 6298869-6298873,6298877									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	104	104	70-130	0	30
Batch number: E111462AB	Sample number(s): 6298874-6298875									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	107	111	70-130	3	30
Batch number: L111471AA	Sample number(s): 6298878									
Acetone	6	U	6.	20	ug/l	134	111	49-234	19	30
Benzene	0.5	U	0.5	5	ug/l	97	98	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	78	80	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	102	103	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	105	97	66-151	8	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	94	78-120	4	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	93	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	103	103	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	92	93	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	96	97	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	99	100	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	92	91	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	87	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	87	87	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	90	90	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	97	96	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	90	90	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	95	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	97	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	88	89	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	91	93	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	91	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	87	91	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	88	90	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	105	101	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	81	84	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	93	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	94	96	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	91	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	92	92	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	90	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	95	96	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	95	93	80-120	3	30
Styrene	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	89	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	100	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	82	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	101	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	95	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	96	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	93	94	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	99	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	95	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30

Batch number: 11146SLB026 Sample number(s): 6298869-6298875,6298877

Acenaphthene	0.67	U	0.67	1.7	ug/kg	103	63-120
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	96	60-120
Anthracene	0.33	U	0.33	1.7	ug/kg	103	55-120
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	108	74-120
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	131*	58-129
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	137	63-143
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126	44-138
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	141	54-142
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	121	65-131
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	121	75-137
Chrysene	0.33	U	0.33	1.7	ug/kg	105	73-114
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137	53-138
Diethylphthalate	6.0	U	6.0	18	ug/kg	114	68-125
Dimethylphthalate	6.0	U	6.0	18	ug/kg	106	79-121
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	125	67-143

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.67	U	0.67	1.7	ug/kg	110		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	132		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	104		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	107		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	152		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	102		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		56-121		
Batch number: 11146SLF026	Sample number(s): 6298870-6298871									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11151SLD026	Sample number(s): 6298869-6298875,6298877									
Acenaphthene	17	U	17.	170	ug/kg	93		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	95		75-122		
Aniline	170 U		170.	500	ug/kg	78		34-94		
Anthracene	17	U	17.	170	ug/kg	95		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	94		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	86		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	80		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	78		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	97		67-125		
Benzoic acid	170 U		170.	500	ug/kg	94		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	94		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	98		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	54		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	89		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	69		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	80		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	53		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	80		64-119		
Isophorone	17	U	17.	170	ug/kg	91		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	91		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	86		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	98		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	77		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	85		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	94		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	98		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	77		51-117		
Phenanthrene	17	U	17.	170	ug/kg	91		77-113		
Phenol	17	U	17.	170	ug/kg	87		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 11151B34A	Sample number(s): 6298870-6298871									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	74	67-119	8	30
Batch number: 11154A20A	Sample number(s): 6298878									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111510007A	Sample number(s): 6298870-6298871									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	103		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	107		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	84		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80 U	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100 U	U	100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80 U	U	80.	120	ug/kg	101		80-120		
PETN	800 U	U	800.	2,400	ug/kg	114		80-120		
RDX	50 U	U	50.	120	ug/kg	98		75-131		
Tetryl	61 U	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40 U	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40 U	U	40.	120	ug/kg	109		80-120		
Batch number: 111520003A	Sample number(s): 6298870-6298871									
25a Formaldehyde 8315A	600 U	U	600.	1,500	ug/kg	93		80-126		
Batch number: 111510010A	Sample number(s): 6298869-6298875,6298877									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	97	90	36-106	8	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111580027A	Sample number(s): 6298870-6298871									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	111		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	115		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	73		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	114		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		54-107		
Batch number: 111470006A	Sample number(s): 6298870-6298871									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Batch number: 111470018A	Sample number(s): 6298870-6298871									
Ethanol	100 U	U	100.	500	ug/kg	91		71-129		
Isopropanol	100 U	U	100.	500	ug/kg	87		75-125		
Methanol	100 U	U	100.	500	ug/kg	93		68-129		
Batch number: 111510027A	Sample number(s): 6298870-6298871									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111525708001	Sample number(s): 6298869-6298877									
Aluminum	6.00	J	4.84	19.2	mg/kg	92		61-110		
Boron	0.856	U	0.856	4.81	mg/kg	91		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	8.24	J	5.89	19.2	mg/kg	92		88-110		
Iron	4.53	U	4.53	19.2	mg/kg	83		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	99		80-120		
Magnesium	2.44	U	2.44	9.62	mg/kg	92		82-110		
Manganese	0.0750	U	0.0750	0.481	mg/kg	96		89-112		
Phosphorus	0.998	J	0.538	9.62	mg/kg	102		80-120		
Potassium	17.3	U	17.3	48.1	mg/kg	95		78-110		
Sodium	35.9	U	35.9	96.2	mg/kg	93		87-110		
Strontium	0.0596	U	0.0596	0.481	mg/kg	96		86-110		
Tin	1.17	J	0.962	9.62	mg/kg	93		90-114		
Titanium	0.365	U	0.365	0.962	mg/kg	84		80-120		
Zirconium	0.808	U	0.808	4.81	mg/kg	97		80-120		
Batch number: 111525711001	Sample number(s): 6298869-6298877									
Mercury	0.0026	U	0.0026	0.0923	mg/kg	93		88-123		
Batch number: 111571026002A	Sample number(s): 6298869-6298877									
Antimony	0.0594	U	0.0594	0.198	mg/kg	82		27-181		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	101		83-113		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	102		86-111		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	106		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	103		80-120		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	105		82-118		
Copper	0.107	J	0.0653	0.396	mg/kg	98		83-110		
Lead	0.0103	U	0.0103	0.198	mg/kg	102		83-110		
Nickel	0.0990	U	0.0990	0.396	mg/kg	101		81-110		
Silver	0.0119	U	0.0119	0.0990	mg/kg	100		81-111		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	102		83-110		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	95		84-116		
Zinc	0.554	U	0.554	2.97	mg/kg	101		81-112		
Batch number: 111571026002B	Sample number(s): 6298869-6298877									
Selenium	0.0396	U	0.0396	0.396	mg/kg	107		83-111		
Batch number: 111571026002C	Sample number(s): 6298869-6298877									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	107		78-122		
Batch number: 111571026002D	Sample number(s): 6298869-6298877									
Barium	0.107	U	0.107	0.396	mg/kg	102		81-111		
Batch number: 11148243201A	Sample number(s): 6298869-6298874,6298876-6298877									
3a Cr VI by EPA 7199	0.26	J	0.20	1.0	mg/kg	95		80-120		
Batch number: 11152621201B	Sample number(s): 6298869-6298874,6298876-6298877									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11153102201B	Sample number(s): 6298870-6298871									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	108		80-120		
Batch number: 11154621201B	Sample number(s): 6298869-6298874,6298876-6298877									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11152039402A	Sample number(s): 6298869-6298870,6298873,6298876									
18a pH by 9045C						100		95-105		
Batch number: 11152039402B	Sample number(s): 6298871-6298872,6298877									
18a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11154162401B	Sample number(s): 6298869,6298872-6298877								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401B	Sample number(s): 6298870-6298871								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111521AA	Sample number(s): 6298869-6298875,6298877 UNSPK: 6298873								
Acetone	97	93	15-210	11	30				
Benzene	104	103	55-143	8	30				
Bromobenzene	97	97	43-139	8	30				
Bromochloromethane	110	102	60-137	16	30				
Bromodichloromethane	99	98	53-136	9	30				
Bromoform	95	91	38-124	12	30				
Bromomethane	71	70	42-168	9	30				
2-Butanone	93	88	37-163	14	30				
n-Butylbenzene	95	96	30-146	7	30				
sec-Butylbenzene	96	96	33-157	8	30				
tert-Butylbenzene	97	97	41-152	7	30				
Carbon Tetrachloride	107	105	45-153	10	30				
Chlorobenzene	102	101	49-135	8	30				
Chloroethane	64	64	39-152	8	30				
2-Chloroethyl Vinyl Ether	82	79	32-139	12	30				
Chloroform	106	103	61-142	10	30				
Chloromethane	70	67	51-163	12	30				
2-Chlorotoluene	96	96	42-146	7	30				
4-Chlorotoluene	98	98	39-145	7	30				
1,2-Dibromo-3-chloropropane	94	90	30-139	12	30				
Dibromochloromethane	98	95	51-128	11	30				
1,2-Dibromoethane	100	98	54-129	9	30				
Dibromomethane	98	93	57-130	12	30				
1,2-Dichlorobenzene	99	97	36-133	10	30				
1,3-Dichlorobenzene	96	95	34-134	9	30				
1,4-Dichlorobenzene	97	95	35-136	9	30				
Dichlorodifluoromethane	63	60	26-151	12	30				
1,1-Dichloroethane	104	103	63-142	9	30				
1,2-Dichloroethane	107	105	68-131	9	30				
1,1-Dichloroethene	111	108	61-149	10	30				
cis-1,2-Dichloroethene	102	100	60-136	10	30				
trans-1,2-Dichloroethene	100	101	59-142	6	30				
1,2-Dichloropropane	99	98	62-135	8	30				
1,3-Dichloropropane	101	99	58-129	10	30				
2,2-Dichloropropane	104	102	53-147	9	30				
1,1-Dichloropropene	105	104	54-145	8	30				
cis-1,3-Dichloropropene	93	92	51-131	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
trans-1,3-Dichloropropene	93	92	49-129	9	30				
Ethylbenzene	101	101	44-141	7	30				
Freon 113	111	108	56-156	10	30				
Hexachlorobutadiene	82	79	10-155	11	30				
2-Hexanone	96	92	32-160	12	30				
Isopropylbenzene	101	102	38-144	7	30				
p-Isopropyltoluene	95	95	29-152	7	30				
Methyl Tertiary Butyl Ether	97	95	55-129	10	30				
4-Methyl-2-pentanone	94	89	46-139	13	30				
Methylene Chloride	103	99	61-141	11	30				
n-Propylbenzene	97	98	39-157	7	30				
Styrene	102	102	35-134	8	30				
1,1,1,2-Tetrachloroethane	102	100	52-130	9	30				
1,1,2,2-Tetrachloroethane	93	89	40-152	11	30				
Tetrachloroethene	103	103	42-149	7	30				
Toluene	103	103	50-146	8	30				
1,2,3-Trichlorobenzene	91	89	10-140	10	30				
1,2,4-Trichlorobenzene	84	82	10-136	10	30				
1,1,1-Trichloroethane	105	103	64-142	9	30				
1,1,2-Trichloroethane	99	97	54-139	9	30				
Trichloroethene	100	99	53-144	8	30				
Trichlorofluoromethane	93	88	47-163	12	30				
1,2,3-Trichloropropane	94	91	45-154	12	30				
1,2,4-Trimethylbenzene	95	95	37-149	7	30				
1,3,5-Trimethylbenzene	98	99	38-150	7	30				
Vinyl Chloride	74	72	50-154	11	30				
m+p-Xylene	104	104	44-137	8	30				
o-Xylene	100	100	42-137	7	30				
Batch number: E111462AA	Sample number(s): 6298869-6298873,6298877 UNSPK: 6298873								
1,4-Dioxane	103	111	70-130	18	30				
Batch number: E111462AB	Sample number(s): 6298874-6298875 UNSPK: 6298873								
1,4-Dioxane	103	111	70-130	18	30				
Batch number: 11146SLB026	Sample number(s): 6298869-6298875,6298877 UNSPK: 6298873								
Acenaphthene	93	91	63-105	2	30				
Acenaphthylene	95	91	67-114	3	30				
Anthracene	102	102	60-122	1	30				
Benzo(a)anthracene	104	103	59-128	0	30				
Benzo(a)pyrene	133	129	45-138	2	30				
Benzo(b)fluoranthene	160*	137	43-155	14	30				
Benzo(g,h,i)perylene	66	66	33-141	0	30				
Benzo(k)fluoranthene	136	144	42-144	6	30				
Butylbenzylphthalate	100	104	57-173	5	30				
Di-n-butylphthalate	112	112	65-148	1	30				
Chrysene	101	99	48-134	1	30				
Dibenz(a,h)anthracene	88	88	22-133	1	30				
Diethylphthalate	104	99	70-136	4	30				
Dimethylphthalate	101	96	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	105	108	39-167	4	30				
Fluoranthene	114	112	26-166	1	30				
Fluorene	101	98	66-122	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Indeno(1,2,3-cd)pyrene	82	82	21-143	0	30				
1-Methylnaphthalene	98	97	72-123	0	30				
2-Methylnaphthalene	90	88	64-103	2	30				
Naphthalene	95	92	61-102	2	30				
N-Nitrosodimethylamine	104	102	48-113	1	30				
Di-n-octylphthalate	156	151	40-192	2	30				
Phenanthrene	99	96	12-165	2	30				
Pyrene	89	89	15-153	2	30				
Batch number: 11146SLF026	Sample number(s): 6298870-6298871 UNSPK: P297556								
N-Nitrosodimethylamine	72	73	70-130	2	30				
Batch number: 11151SLD026	Sample number(s): 6298869-6298875,6298877 UNSPK: 6298873								
Acenaphthene	80	97	75-115	18	30				
Acenaphthylene	82	98	81-110	18	30				
Aniline	62	78	35-95	23	30				
Anthracene	82	98	75-115	17	30				
Benzidine	19*	31*	35-141	50*	30				
Benzo(a)anthracene	84	96	65-122	13	30				
Benzo(a)pyrene	76	88	57-126	15	30				
Benzo(b)fluoranthene	72	90	59-125	23	30				
Benzo(g,h,i)perylene	70	82	59-127	16	30				
Benzo(k)fluoranthene	86	94	56-132	9	30				
Benzoic acid	60	95	10-173	45*	30				
Benzyl alcohol	84	96	67-115	13	30				
4-Bromophenyl-phenylether	79	92	67-129	15	30				
Butylbenzylphthalate	84	101	73-134	18	30				
Di-n-butylphthalate	81	97	67-123	18	30				
Carbazole	84	100	64-120	18	30				
4-Chloro-3-methylphenol	84	99	76-110	16	30				
4-Chloroaniline	47	60	23-95	25	30				
bis(2-Chloroethoxy)methane	81	92	75-104	13	30				
bis(2-Chloroethyl)ether	77	88	60-116	14	30				
bis(2-Chloroisopropyl)ether	76	90	55-142	17	30				
2-Chloronaphthalene	57	69	50-141	19	30				
2-Chlorophenol	86	99	73-121	14	30				
4-Chlorophenyl-phenylether	80	99	80-109	21	30				
Chrysene	85	97	62-128	13	30				
Dibenz(a,h)anthracene	72	83	65-125	14	30				
Dibenzofuran	82	98	71-112	17	30				
1,2-Dichlorobenzene	70	83	66-108	17	30				
1,3-Dichlorobenzene	69	82	63-109	17	30				
1,4-Dichlorobenzene	69*	81	70-100	15	30				
3,3'-Dichlorobenzidine	39	53	16-119	29	30				
2,4-Dichlorophenol	86	98	78-117	13	30				
Diethylphthalate	81	99	66-118	20	30				
2,4-Dimethylphenol	83	99	78-110	17	30				
3,5-Dimethylphenol	91	107	70-130	16	30				
Dimethylphthalate	82	97	64-118	18	30				
4,6-Dinitro-2-methylphenol	64	83	24-116	25	30				
2,4-Dinitrophenol	46	79	20-143	52*	30				
2,4-Dinitrotoluene	83	100	73-113	19	30				
2,6-Dinitrotoluene	83	100	69-123	18	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	84	97	71-129	15	30				
bis(2-Ethylhexyl)phthalate	84	98	63-122	16	30				
Fluoranthene	85	100	73-112	16	30				
Fluorene	82	98	77-111	18	30				
Hexachlorobenzene	80	95	77-114	17	30				
Hexachlorobutadiene	74	88	62-120	18	30				
Hexachlorocyclopentadiene	69	84	10-153	19	30				
Hexachloroethane	65	77	57-109	16	30				
Indeno(1,2,3-cd)pyrene	71	84	61-126	17	30				
Isophorone	80	95	73-102	17	30				
1-Methylnaphthalene	81	94	73-112	15	30				
2-Methylnaphthalene	77	88	76-114	13	30				
2-Methylphenol	83	93	75-111	12	30				
4-Methylphenol	82	92	71-111	12	30				
Naphthalene	77	91	72-116	16	30				
2-Nitroaniline	84	102	67-125	20	30				
3-Nitroaniline	81	101	59-122	21	30				
4-Nitroaniline	63	80	52-112	24	30				
Nitrobenzene	78	93	72-106	17	30				
2-Nitrophenol	80	92	74-115	14	30				
4-Nitrophenol	68	88	54-113	27	30				
N-Nitroso-di-n-propylamine	77	92	60-116	17	30				
N-Nitrosodimethylamine	75	85	47-116	13	30				
N-Nitrosodiphenylamine	81*	95	86-145	16	30				
Di-n-octylphthalate	83	100	56-126	18	30				
Pentachlorophenol	76	92	28-127	19	30				
Phenanthrene	81	94	65-125	14	30				
Phenol	78	88	58-126	12	30				
Pyrene	85	100	74-126	16	30				
1,2,4-Trichlorobenzene	77	91	72-115	17	30				
2,4,5-Trichlorophenol	80	99	78-109	21	30				
2,4,6-Trichlorophenol	82	97	77-115	17	30				
Batch number: 11151B34A	Sample number(s): 6298870-6298871 UNSPK: P302747								
9a TPH by EPA 8015B Gas C5-C12	61	62	39-118	5	30				
Batch number: 111510007A	Sample number(s): 6298870-6298871 UNSPK: P301476								
4-Amino-2,6-Dinitrotoluene	109	107	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	2	50				
1,3-Dinitrobenzene	112	110	38-166	2	50				
2,4-Dinitrotoluene	105	103	80-131	2	50				
2,6-Dinitrotoluene	110	106	80-127	4	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	109	105	80-125	4	50				
Nitroglycerin	97	96	80-120	2	50				
2-Nitrotoluene	106	103	80-122	3	50				
3-Nitrotoluene	112	110	72-119	2	50				
4-Nitrotoluene	104	102	80-125	2	50				
PETN	120	120	80-121	0	50				
RDX	90	89	75-129	1	50				
Tetryl	97	96	55-174	0	50				
1,3,5-Trinitrobenzene	105	102	82-126	3	50				
2,4,6-Trinitrotoluene	109	107	82-130	2	50				

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Quality Control Summary

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Reported: 06/15/11 at 09:53 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111520003A	Sample number(s): 6298870-6298871 UNSPK: P301476								
25a Formaldehyde 8315A	95	94	80-120	1	50				
Batch number: 111510010A	Sample number(s): 6298869-6298875,6298877 UNSPK: 6298873								
PCB-1016	105	107	29-146	2	50				
PCB-1260	107	107	39-149	0	50				
Batch number: 111580027A	Sample number(s): 6298870-6298871 UNSPK: P302747								
EFH (C12-C14)	104	111	49-123	6	20				
EFH (C15-C20)	116	123	49-123	6	20				
EFH (C21-C30)	92	125*	49-123	30*	20				
EFH (C30 - C40)	78	99	49-123	18	20				
EFH (C8-C11)	88	92	49-123	3	20				
Batch number: 111470006A	Sample number(s): 6298870-6298871 UNSPK: P300336								
Diethylene glycol	51*	54*	59-109	6	20				
Ethylene glycol	71	72	63-107	0	20				
Propylene glycol	77	76	63-107	1	20				
Batch number: 111470018A	Sample number(s): 6298870-6298871 UNSPK: P300352								
Ethanol	74	73	48-130	0	20				
Isopropanol	76	77	12-149	1	20				
Methanol	76	75	43-138	1	20				
Batch number: 111510027A	Sample number(s): 6298870-6298871 UNSPK: P296047								
m-Terphenyl	82	80	75-125	2	20				
o-Terphenyl	98	95	75-125	4	20				
p-Terphenyl	94	93	75-125	1	20				
Batch number: 111525708001	Sample number(s): 6298869-6298877 UNSPK: 6298873 BKG: 6298873								
Aluminum	5295 (2)	7388 (2)	75-125	12	20	18,000	19,300	7	20
Boron	93	94	84-115	3	20	4.32 U	4.36 U	0 (1)	20
Calcium	-76 (2)	29 (2)	75-125	8	20	4,990	4,970	0	20
Iron	-5356 (2)	-747 (2)	75-125	14	20	37,300	37,200	0	20
Lithium	98	105	82-114	2	20	40.0	40.9	2	20
Magnesium	450 (2)	274 (2)	75-125	5	20	6,510	6,600	1	20
Manganese	-257 (2)	-256 (2)	75-125	2	20	401	356	12	20
Phosphorus	-220 (2)	-292 (2)	75-125	16	20	640	575	11	20
Potassium	81	40*	75-125	12	20	3,110	2,950	5	20
Sodium	82	89	75-125	3	20	363	398	9 (1)	20
Strontium	106	105	75-115	3	20	30.7	34.3	11	20
Tin	84	85	80-110	3	20	3.66 J	3.49 J	5 (1)	20
Titanium	-31 (2)	-94 (2)	75-125	4	20	1,660	1,650	0	20
Zirconium	95	96	75-125	2	20	6.19	7.12	14 (1)	20
Batch number: 111525711001	Sample number(s): 6298869-6298877 UNSPK: 6298873 BKG: 6298873								
Mercury	103	94	65-135	11	20	0.0037 J	0.0134 J	113* (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111571026002A	Sample number(s): 6298869-6298877 UNSPK: 6298873 BKG: 6298873								
Antimony	34*	44*	75-125	19	20	0.106 J	0.109 J	3 (1)	20
Arsenic	267 (2)	89 (2)	75-125	24*	20	11.0	11.6	5	20
Beryllium	118	67*	75-125	28*	20	0.763	0.788	3	20
Cadmium	101	107	75-125	3	20	0.0752 J	0.0849 J	12 (1)	20
Chromium	201*	101	75-125	28*	20	20.9	21.6	3	20
Cobalt	125	95	75-125	24*	20	12.6	8.33	41*	20
Copper	121	67*	75-125	21*	20	16.9	16.3	4	20
Lead	291*	77	75-125	46*	20	8.44	7.96	6	20
Nickel	162*	104	75-125	21*	20	15.6	16.2	3	20
Silver	102	104	75-125	1	20	0.0257 J	0.107	122* (1)	20
Thallium	94	124	75-125	13	20	0.357	0.363	1 (1)	20
Vanadium	258 (2)	93 (2)	75-125	28*	20	41.4	41.5	0	20
Zinc	-47 (2)	-7 (2)	75-125	5	20	89.7	87.9	2	20
Batch number: 111571026002B	Sample number(s): 6298869-6298877 UNSPK: 6298873 BKG: 6298873								
Selenium	104	104	75-125	3	20	0.0941 J	0.0912 J	3 (1)	20
Batch number: 111571026002C	Sample number(s): 6298869-6298877 UNSPK: 6298873 BKG: 6298873								
Molybdenum	94	101	75-125	4	20	0.431	0.407	6 (1)	20
Batch number: 111571026002D	Sample number(s): 6298869-6298877 UNSPK: 6298873 BKG: 6298873								
Barium	373 (2)	-28 (2)	75-125	24*	20	149	170	13	20
Batch number: 11148243201A	Sample number(s): 6298869-6298874,6298876-6298877 UNSPK: 6298873 BKG: 6298873								
3a Cr VI by EPA 7199	86		75-125			0.98 J	0.52 J	60* (1)	20
Batch number: 11152621201B	Sample number(s): 6298869-6298874,6298876-6298877 UNSPK: 6298873 BKG: 6298873								
11a Anions by 300.0 - Fluoride	80		80-120			7.5	8.6	14	20
11a Anions by 300.0 - Nitrate	99		80-120			4.4	4.8	9 (1)	20
Batch number: 11153102201B	Sample number(s): 6298870-6298871 UNSPK: P300354 BKG: P300354								
17a Cyanide by 9012B	113		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11154621201B	Sample number(s): 6298869-6298874,6298876-6298877 UNSPK: 6298873 BKG: 6298873								
7a Perchlorate EPA 314.0	98		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11152039402A	Sample number(s): 6298869-6298870,6298873,6298876 BKG: 6298873								
18a pH by 9045C						7.89	7.86	0	3
Batch number: 11152039402B	Sample number(s): 6298871-6298872,6298877 BKG: 6298877								
18a pH by 9045C						6.64	6.66	0	3
Batch number: 11154162401B	Sample number(s): 6298869,6298872-6298877 BKG: 6298873								
28a Moisture Content by 160.3						9.3	8.5	8	20
Moisture Content by 160.3						9.3	8.5	8	20
Moisture Content by 160.3						9.3	8.5	8	20
Batch number: 11160162401B	Sample number(s): 6298870-6298871 BKG: 6298871								
Moisture Content by 160.3						6.4	7.5	17	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111521AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6298869	103	102	100	92
6298870	102	99	100	93
6298871	105	105	100	94
6298872	105	102	98	93
6298873	105	107	98	93
6298874	102	98	103	100
6298875	101	98	103	101
6298877	102	100	100	94
Blank	104	100	97	94
LCS	105	106	100	103
MS	102	98	103	100
MSD	101	98	103	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111461AA

	Toluene-d8
6298878	105
Blank	106
LCS	106
LCSD	106
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111462AA

	Toluene-d8
6298869	97
6298870	97
6298871	97
6298872	98
6298873	97
6298877	97
Blank	98
LCS	98
LCSD	98
MS	93
MSD	95
Limits:	70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111462AB

	Toluene-d8
6298874	93

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Surrogate Quality Control

6298875	95
Blank	97
LCS	97
LCSD	95
MS	93
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6298878	102	102	102	99
Blank	103	101	101	99
LCS	103	102	102	100
LCSD	102	102	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11146SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6298869	102	86	96
6298870	98	88	96
6298871	98	88	94
6298872	101	88	97
6298873	105	94	97
6298874	106	95	95
6298875	109	96	96
6298877	102	91	98
Blank	103	93	100
LCS	112	100	104
MS	106	95	95
MSD	109	96	96
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11146SLF026

	N-Nitrosodimethylamine-d6
6298870	88
6298871	79
Blank	82
LCS	82
MS	101
MSD	97
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11151SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Surrogate Quality Control

6298869	87	91	86	83	82	90
6298870	84	85	84	77	79	91
6298871	77	77	79	72	72	86
6298872	84	85	88	78	79	92
6298873	87	92	94	85	85	84
6298874	85	86	83	79	77	77
6298875	91	93	98	86	87	86
6298877	84	85	82	76	77	88
Blank	85	89	85	82	83	81
LCS	92	94	97	85	87	86
MS	85	86	83	79	77	77
MSD	91	93	98	86	87	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11151B34A

	Trifluorotoluene-F
6298870	70
6298871	69
Blank	76
LCS	79
LCSD	87
MS	74
MSD	74
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11154A20A

	Trifluorotoluene-F
6298878	72
Blank	73
LCS	109
LCSD	112
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111510007A

	2-Nitro-m-xylene
6298870	122
6298871	119
Blank	136
LCS	127
LCSD	132
MS	122
MSD	119
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111510010A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Surrogate Quality Control

6298869	121	113
6298870	125	112
6298871	118	102
6298872	124	112
6298873	119	105
6298874	116	106
6298875	120	107
6298877	124	109
Blank	114	106
LCS	121	108
LCSD	117	112
MS	116	106
MSD	120	107
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111520003A

Butyraldehyde

6298870	100
6298871	100
Blank	108
LCS	104
MS	104
MSD	106
Limits:	64-126

Analysis Name: 21a Glycols by 8015B
Batch number: 111470006A

Tetramethylene glycol

6298870	87
6298871	86
Blank	90
LCS	97
MS	90
MSD	89
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111470018A

Acetone

6298870	79
6298871	79
Blank	90
LCS	89
MS	81
MSD	80
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248705
Reported: 06/15/11 at 09:53 AM

Surrogate Quality Control

Batch number: 111510027A

	n-Triacontane-d62
6298870	86
6298871	87
Blank	92
LCS	94
MS	151*
MSD	130
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111580027A

	Chlorobenzene	Orthoterphenyl
6298870	94	115
6298871	91	114
Blank	92	108
LCS	103	117
MS	92	109
MSD	94	112
Limits:	37-125	47-145

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1248705 60298869-78

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/SB7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-130-SA5DN-SB-4.5	5.25.11	1610	SOIL	NONE	5-Encores										X	X	X										
SL-130-SA5DN-SB-4.0-5.0	5.25.11	1615	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA5DN-SB-4.5	5.25.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA5DN-SB-4.0-5.0	5.25.11	1200	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-140-SA5DN-SB-2.5	5.25.11	1050	SOIL	NONE	5-Encores										X	X	X										
SL-140-SA5DN-SB-2.0-3.0	5.25.11	1055	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-142-SA5DN-SB-2.5	5.25.11	0945	SOIL	NONE	4-Encores										X	X											
SL-142-SA5DN-SB-2.0-3.0	5.25.11	0950	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-144-SA5DN-SB-2.5MS	5.25.11	0845	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-144-SA5DN-SB-2.0-3.0MS	5.25.11	0855	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
DUP07-SA5DN-QC-052511	5.25.11	0850	SOIL	NONE	4-Encores										X	X											
DUP07-SA5DN-QC-052511	5.25.11	0900	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-052511	5.25.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	~~05/26/2011~~ / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	5/26/11 1020	8695 1442 0913,0924,0935,0946,0957	

Nicole Maljovec 13013 1243705 629858-01-78

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, May 26, 2011 4:06 PM
To: Nicole Maljovec; Hartman, Pamela
Subject: RE: SSFL COC 5/25/11- question on SL-130

Follow Up Flag: Follow up
Flag Status: Purple

Hi Nicole - yes, SL-130 samples should be analyzed for primary and VOCs/1,4-Dioxane analysis in accordance with our work plan.

Good catch! Peggy

-----Original Message-----
From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Thursday, May 26, 2011 12:52 PM
To: Hartman, Pamela; Bloisa, Peggy
Subject: FW: SSFL COC 5/25/11- question on SL-130
Importance: High

Hi ladies,
We only received 4 encores and 2 jars for SL-130. Is this just for the VOCs and primary analyses? Please let me know ASAP.

Thanks,
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, May 25, 2011 7:32 PM
To: Nicole Maljovec; SA Env Entry; Zakowski, Cherie; Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'
Subject: SSFL COC 5/25/11

COC for Wednesday 5/25/11

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/26/2011
Group Number: 1248707
SDG: DX089
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-130-SA5DN-SB-4.0-5.0 Soil	6298880
SL-133-SA5DN-SB-4.0-5.0 Soil	6298881
SL-140-SA5DN-SB-2.0-3.0 Soil	6298882
SL-142-SA5DN-SB-2.0-3.0 Soil	6298883
SL-144-SA5DN-SB-2.0-3.0 Soil	6298884
SL-144-SA5DN-SB-2.0-3.0MS Soil	6298885
SL-144-SA5DN-SB-2.0-3.0MSD Soil	6298886
DUP07-SA5DN-QC-052511 Soil	6298887

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298880
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X130- SDG#: DX089-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298880
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X130- SDG#: DX089-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.105	JQ	0.0179	1.12	1
11031	12378-PeCDD	40321-76-4	0.541	JB	0.0297	5.59	1
11031	123478-HxCDD	39227-28-6	0.595	JB	0.0637	5.59	1
11031	123678-HxCDD	57653-85-7	1.66	JB	0.0661	5.59	1
11031	123789-HxCDD	19408-74-3	1.34	JB	0.0589	5.59	1
11031	1234678-HpCDD	35822-46-9	42.6	B	0.109	5.59	1
11031	OCDD	3268-87-9	1,170	B	0.148	11.2	1
11031	2378-TCDF	51207-31-9	0.0996	JB	0.0148	1.12	1
11031	12378-PeCDF	57117-41-6	0.410	JB	0.0103	5.59	1
11031	23478-PeCDF	57117-31-4	0.342	JB	0.0108	5.59	1
11031	123478-HxCDF	70648-26-9	0.464	JB	0.0449	5.59	1
11031	123678-HxCDF	57117-44-9	0.329	JBQ	0.0341	5.59	1
11031	123789-HxCDF	72918-21-9	0.272	JBQ	0.0335	5.59	1
11031	234678-HxCDF	60851-34-5	0.221	JBQ	0.0262	5.59	1
11031	1234678-HpCDF	67562-39-4	2.69	JB	0.0250	5.59	1
11031	1234789-HpCDF	55673-89-7	0.222	JB	0.0388	5.59	1
11031	OCDF	39001-02-0	8.21	JB	0.0613	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298880
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X130- SDG#: DX089-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298880
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 16:15

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X130- SDG#: DX089-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 03:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298881
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X133- SDG#: DX089-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298881
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X133- SDG#: DX089-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0585 JQ	0.0152	1.11	1
11031	12378-PeCDD	40321-76-4	0.149 JBQ	0.0148	5.57	1
11031	123478-HxCDD	39227-28-6	0.0882 JBQ	0.0163	5.57	1
11031	123678-HxCDD	57653-85-7	0.0987 JB	0.0171	5.57	1
11031	123789-HxCDD	19408-74-3	0.113 JB	0.0161	5.57	1
11031	1234678-HpCDD	35822-46-9	0.504 JBQ	0.0313	5.57	1
11031	OCDD	3268-87-9	6.10 JB	0.0355	11.1	1
11031	2378-TCDF	51207-31-9	0.0427 JBQ	0.0137	1.11	1
11031	12378-PeCDF	57117-41-6	0.175 JB	0.00860	5.57	1
11031	23478-PeCDF	57117-31-4	0.170 JB	0.00860	5.57	1
11031	123478-HxCDF	70648-26-9	0.154 JBQ	0.0163	5.57	1
11031	123678-HxCDF	57117-44-9	0.113 JBQ	0.0133	5.57	1
11031	123789-HxCDF	72918-21-9	0.154 JBQ	0.0148	5.57	1
11031	234678-HxCDF	60851-34-5	0.0998 JBQ	0.0124	5.57	1
11031	1234678-HpCDF	67562-39-4	0.152 JBQ	0.0110	5.57	1
11031	1234789-HpCDF	55673-89-7	0.132 JBQ	0.0201	5.57	1
11031	OCDF	39001-02-0	0.358 JB	0.0357	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298881
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X133- SDG#: DX089-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SB-4.0-5.0

LLI Sample # SW 6298881
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:00

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X133- SDG#: DX089-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 07:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

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Analysis Report

Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298882
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X140- SDG#: DX089-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298882
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X140- SDG#: DX089-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0138 U	0.0138	1.07	1
11031	12378-PeCDD	40321-76-4	0.0294 JBQ	0.0159	5.34	1
11031	123478-HxCDD	39227-28-6	0.0359 JBQ	0.0142	5.34	1
11031	123678-HxCDD	57653-85-7	0.0606 JBQ	0.0149	5.34	1
11031	123789-HxCDD	19408-74-3	0.0592 JB	0.0145	5.34	1
11031	1234678-HpCDD	35822-46-9	0.376 JB	0.0261	5.34	1
11031	OCDD	3268-87-9	4.56 JB	0.0282	10.7	1
11031	2378-TCDF	51207-31-9	0.0171 JBQ	0.0132	1.07	1
11031	12378-PeCDF	57117-41-6	0.0232 JBQ	0.00748	5.34	1
11031	23478-PeCDF	57117-31-4	0.0626 JB	0.00833	5.34	1
11031	123478-HxCDF	70648-26-9	0.0561 JBQ	0.0192	5.34	1
11031	123678-HxCDF	57117-44-9	0.0494 JBQ	0.0146	5.34	1
11031	123789-HxCDF	72918-21-9	0.0511 JBQ	0.0119	5.34	1
11031	234678-HxCDF	60851-34-5	0.0381 JB	0.00833	5.34	1
11031	1234678-HpCDF	67562-39-4	0.118 JBQ	0.0116	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0841 JBQ	0.0190	5.34	1
11031	OCDF	39001-02-0	0.206 JBQ	0.0424	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	39	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5DN-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298882
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X140- SDG#: DX089-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298882
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X140- SDG#: DX089-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 08:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298883
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X142- SDG#: DX089-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298883
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X142- SDG#: DX089-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0193 JQ	0.0183	1.10	1
11031	12378-PeCDD	40321-76-4	0.0240 JBQ	0.0179	5.48	1
11031	123478-HxCDD	39227-28-6	0.0270 U	0.0270	5.48	1
11031	123678-HxCDD	57653-85-7	0.0850 JBQ	0.0280	5.48	1
11031	123789-HxCDD	19408-74-3	0.104 JBQ	0.0268	5.48	1
11031	1234678-HpCDD	35822-46-9	0.224 JB	0.0262	5.48	1
11031	OCDD	3268-87-9	0.429 JBQ	0.0266	11.0	1
11031	2378-TCDF	51207-31-9	0.0154 U	0.0154	1.10	1
11031	12378-PeCDF	57117-41-6	0.0142 JBQ	0.00812	5.48	1
11031	23478-PeCDF	57117-31-4	0.0554 JBQ	0.00933	5.48	1
11031	123478-HxCDF	70648-26-9	0.0393 JBQ	0.0143	5.48	1
11031	123678-HxCDF	57117-44-9	0.0275 JBQ	0.0105	5.48	1
11031	123789-HxCDF	72918-21-9	0.0792 JBQ	0.0128	5.48	1
11031	234678-HxCDF	60851-34-5	0.0202 JB	0.00889	5.48	1
11031	1234678-HpCDF	67562-39-4	0.0639 JBQ	0.00757	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0328 JBQ	0.0162	5.48	1
11031	OCDF	39001-02-0	0.192 JBQ	0.0418	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	55	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA5DN-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298883
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X142- SDG#: DX089-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-142-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298883
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:50

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X142- SDG#: DX089-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 09:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298884
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298884
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0184 U	0.0184	1.08	1
11031	12378-PeCDD	40321-76-4	0.0175 U	0.0175	5.40	1
11031	123478-HxCDD	39227-28-6	0.0181 U	0.0181	5.40	1
11031	123678-HxCDD	57653-85-7	0.0308 JBQ	0.0191	5.40	1
11031	123789-HxCDD	19408-74-3	0.0317 JBQ	0.0180	5.40	1
11031	1234678-HpCDD	35822-46-9	0.248 JBQ	0.0243	5.40	1
11031	OCDD	3268-87-9	1.33 JB	0.0337	10.8	1
11031	2378-TCDF	51207-31-9	0.0160 U	0.0160	1.08	1
11031	12378-PeCDF	57117-41-6	0.0114 JBQ	0.00849	5.40	1
11031	23478-PeCDF	57117-31-4	0.0408 JB	0.00871	5.40	1
11031	123478-HxCDF	70648-26-9	0.0112 JBQ	0.0108	5.40	1
11031	123678-HxCDF	57117-44-9	0.0143 JB	0.00849	5.40	1
11031	123789-HxCDF	72918-21-9	0.0361 JBQ	0.0116	5.40	1
11031	234678-HxCDF	60851-34-5	0.0263 JBQ	0.00948	5.40	1
11031	1234678-HpCDF	67562-39-4	0.0837 JBQ	0.00695	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0469 JB	0.0142	5.40	1
11031	OCDF	39001-02-0	0.144 JBQ	0.0357	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-144-SA5DN-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298884
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298884
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 10:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298885
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298885
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.9		0.0412	1.08	1
11031	12378-PeCDD	40321-76-4	108	B	0.0533	5.38	1
11031	123478-HxCDD	39227-28-6	107	B	0.0474	5.38	1
11031	123678-HxCDD	57653-85-7	109	B	0.0492	5.38	1
11031	123789-HxCDD	19408-74-3	108	B	0.0487	5.38	1
11031	1234678-HpCDD	35822-46-9	107	B	0.0783	5.38	1
11031	OCDD	3268-87-9	213	B	0.0951	10.8	1
11031	2378-TCDF	51207-31-9	22.7	B	0.0460	1.08	1
11031	12378-PeCDF	57117-41-6	106	B	0.0374	5.38	1
11031	23478-PeCDF	57117-31-4	109	B	0.0367	5.38	1
11031	123478-HxCDF	70648-26-9	107	B	0.0963	5.38	1
11031	123678-HxCDF	57117-44-9	107	B	0.0861	5.38	1
11031	123789-HxCDF	72918-21-9	107	B	0.106	5.38	1
11031	234678-HxCDF	60851-34-5	109	B	0.0875	5.38	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0615	5.38	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0922	5.38	1
11031	OCDF	39001-02-0	218	B	0.0722	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5DN-SB-2.0-3.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298885
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298885
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 11:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298886
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-144-SA5DN-SB-2.0-3.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298886
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.8		0.0266	1.08	1
11031	12378-PeCDD	40321-76-4	108	B	0.0408	5.40	1
11031	123478-HxCDD	39227-28-6	109	B	0.0642	5.40	1
11031	123678-HxCDD	57653-85-7	106	B	0.0656	5.40	1
11031	123789-HxCDD	19408-74-3	106	B	0.0630	5.40	1
11031	1234678-HpCDD	35822-46-9	107	B	0.0712	5.40	1
11031	OCDD	3268-87-9	211	B	0.0963	10.8	1
11031	2378-TCDF	51207-31-9	24.0	B	0.0538	1.08	1
11031	12378-PeCDF	57117-41-6	108	B	0.0363	5.40	1
11031	23478-PeCDF	57117-31-4	107	B	0.0387	5.40	1
11031	123478-HxCDF	70648-26-9	108	B	0.0940	5.40	1
11031	123678-HxCDF	57117-44-9	107	B	0.0772	5.40	1
11031	123789-HxCDF	72918-21-9	106	B	0.117	5.40	1
11031	234678-HxCDF	60851-34-5	108	B	0.0871	5.40	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0472	5.40	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0915	5.40	1
11031	OCDF	39001-02-0	216	B	0.0864	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-144-SA5DN-SB-2.0-3.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298886
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5DN-SB-2.0-3.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SB-2.0-3.0

LLI Sample # SW 6298886
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:55

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X144- SDG#: DX089-12MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 12:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298887
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP7 SDG#: DX089-13FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298887
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP7 SDG#: DX089-13FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0211	U	0.0211	1.05	1
11031	12378-PeCDD	40321-76-4	0.115	JB	0.0252	5.23	1
11031	123478-HxCDD	39227-28-6	0.104	JB	0.0351	5.23	1
11031	123678-HxCDD	57653-85-7	0.177	JB	0.0364	5.23	1
11031	123789-HxCDD	19408-74-3	0.251	JBQ	0.0355	5.23	1
11031	1234678-HpCDD	35822-46-9	0.309	JB	0.0292	5.23	1
11031	OCDD	3268-87-9	0.758	JB	0.0279	10.5	1
11031	2378-TCDF	51207-31-9	0.0390	JBQ	0.0163	1.05	1
11031	12378-PeCDF	57117-41-6	0.105	JB	0.0103	5.23	1
11031	23478-PeCDF	57117-31-4	0.141	JBQ	0.0119	5.23	1
11031	123478-HxCDF	70648-26-9	0.0931	JBQ	0.0167	5.23	1
11031	123678-HxCDF	57117-44-9	0.117	JBQ	0.0130	5.23	1
11031	123789-HxCDF	72918-21-9	0.169	JB	0.0209	5.23	1
11031	234678-HxCDF	60851-34-5	0.147	JB	0.0156	5.23	1
11031	1234678-HpCDF	67562-39-4	0.167	JB	0.00877	5.23	1
11031	1234789-HpCDF	55673-89-7	0.218	JBQ	0.0231	5.23	1
11031	OCDF	39001-02-0	0.452	JB	0.0502	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298887
LLI Group # 1248707
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

Submitted: 05/26/2011 10:20
Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP7 SDG#: DX089-13FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP07-SA5DN-QC-052511 Soil
SSFL Area IV Collocated Soil Sampling
DUP07-SA5DN-QC-052511

LLI Sample # SW 6298887
LLI Group # 1248707
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:00

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Reported: 06/14/2011 21:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP7 SDG#: DX089-13FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11158001	06/10/2011 13:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11158001	06/07/2011 13:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11154162401B	06/03/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248707
Reported: 06/14/11 at 09:49 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11154162401B	Sample number(s): 6298880,6298883-6298887								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401B	Sample number(s): 6298881-6298882								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11158001	Sample number(s): 6298880-6298887								
2378-TCDD	0.0126 U	0.0126	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0396 J	0.0120	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0241 J	0.0104	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0485 J	0.0108	5.00	ng/kg	100		76-134		
123789-HxCDD	0.0535 J	0.0106	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.226 J	0.0145	5.00	ng/kg	99		70-140		
OCDD	0.430 J	0.0177	10.0	ng/kg	99		78-144		
2378-TCDF	0.0170 J	0.0113	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0353 J	0.00640	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0728 J	0.00680	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0553 J	0.00980	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0467 J	0.00830	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0693 J	0.0111	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0579 J	0.00900	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.122 J	0.00650	5.00	ng/kg	100		82-122		
1234789-HpCDF	0.0726 J	0.0116	5.00	ng/kg	100		78-138		
OCDF	0.206 J	0.0225	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11154162401B	Sample number(s): 6298880,6298883-6298887 BKG: P298873								
Moisture Content by 160.3						9.3	8.5	8	20
Batch number: 11160162401B	Sample number(s): 6298881-6298882 BKG: P298871								
Moisture Content by 160.3						6.4	7.5	17	20
Batch number: 11158001	Sample number(s): 6298880-6298887 UNSPK: 6298884								
2378-TCDD	97	96	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248707
Reported: 06/14/11 at 09:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	101	100	70-142	0	25				
123478-HxCDD	100	101	70-164	1	25				
123678-HxCDD	101	98	76-134	2	25				
123789-HxCDD	100	98	64-162	2	25				
1234678-HpCDD	99	99	70-140	0	25				
OCDD	98	97	78-144	1	25				
2378-TCDF	106	111	75-158	5	25				
12378-PeCDF	99	100	80-134	2	25				
23478-PeCDF	101	99	68-160	2	25				
123478-HxCDF	100	100	72-134	1	25				
123678-HxCDF	100	99	84-130	0	25				
123789-HxCDF	99	98	78-130	0	25				
234678-HxCDF	102	100	70-156	1	25				
1234678-HpCDF	100	97	82-122	3	25				
1234789-HpCDF	101	100	78-138	0	25				
OCDF	101	100	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11158001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6298880	70	65	41	52	69	65
6298881	74	68	58	69	73	70
6298882	68	61	29	39	66	57
6298883	66	59	40	55	64	54
6298884	60	58	58	71	64	60
6298885	66	65	67	73	71	69
6298886	78	71	74	86	77	66
6298887	64	57	60	74	63	54
Blank	63	61	64	73	68	68
MS	66	65	67	73	71	69
MSD	78	71	74	86	77	66
OPR	62	63	66	72	69	64
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6298880	68	53	43	87	72	75
6298881	84	55	43	87	73	78
6298882	59	45	34	84	68	74
6298883	76	44	34	84	67	73
6298884	83	48	37	80	63	71
6298885	77	60	51	82	68	75

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248707
Reported: 06/14/11 at 09:49 PM

Surrogate Quality Control

6298886	95	59	51	93	79	86
6298887	92	44	34	82	66	73
Blank	87	62	51	91	69	77
MS	77	60	51	82	68	75
MSD	95	59	51	93	79	86
OPR	77	59	52	84	70	74
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6298880	73	78	71	62	63	74
6298881	77	79	71	60	67	77
6298882	71	75	68	55	61	72
6298883	70	72	69	58	58	70
6298884	69	70	66	55	54	65
6298885	73	74	69	60	62	69
6298886	85	85	79	68	70	79
6298887	72	72	69	61	55	68
Blank	74	76	76	67	56	67
MS	73	74	69	60	62	69
MSD	85	85	79	68	70	79
OPR	71	73	69	61	57	64
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1248707 6298880-87

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										
SL-130-SA5DN-SB-4.5	5.25.11	1610	SOIL	NONE	5-Encores										X	X	X										
SL-130-SA5DN-SB-4.0-5.0	5.25.11	1615	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA5DN-SB-4.5	5.25.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA5DN-SB-4.0-5.0	5.25.11	1200	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-140-SA5DN-SB-2.5	5.25.11	1050	SOIL	NONE	5-Encores										X	X	X										
SL-140-SA5DN-SB-2.0-3.0	5.25.11	1055	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-142-SA5DN-SB-2.5	5.25.11	0945	SOIL	NONE	4-Encores										X	X											
SL-142-SA5DN-SB-2.0-3.0	5.25.11	0950	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-144-SA5DN-SB-2.5MS	5.25.11	0845	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-144-SA5DN-SB-2.0-3.0MS	5.25.11	0855	SOIL	NONE	6-16 oz. jars	X	X	X	X	X	X	X	X														MS/MSD
DUP07-SA5DN-QC-052511	5.25.11	0850	SOIL	NONE	4-Encores										X	X											
DUP07-SA5DN-QC-052511	5.25.11	0900	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-052511	5.25.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time ~~05/26/2011~~ / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 5/26/11 1020	Airbill No.(s) 8695 1442 0913,0924,0935,0946,0957	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/26/2011
Group Number: 1248708
SDG: DE163
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-057-SA5DN-SS-0.0-0.5 Soil	6298888
SL-057-SA5DN-SS-0.0-0.5MS Soil	6298889
SL-057-SA5DN-SS-0.0-0.5MSD Soil	6298890
SL-057-SA5DN-SS-0.0-0.5DUP Soil	6298891
SL-185-SA5DN-SS-0.0-0.5 Soil	6298892
DUP06-SA5DN-QC-052411 Soil	6298893
SL-001-SA5DN-SS-0.0-0.5 Soil	6298894
SL-002-SA5DN-SS-0.0-0.5 Soil	6298895
SL-004-SA5DN-SS-0.0-0.5 Soil	6298896
SL-005-SA5DN-SS-0.0-0.5 Soil	6298897
SL-006-SA5DN-SS-0.0-0.5 Soil	6298898
SL-060-SA5DN-SS-0.0-0.5 Soil	6298899
SL-190-SA5DN-SS-0.0-0.5 Soil	6298900
SL-199-SA5DN-SS-0.0-0.5 Soil	6298901

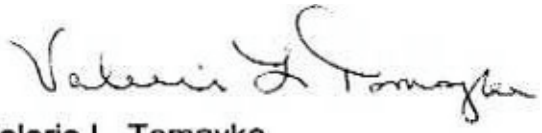
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298888
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298888
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.6	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.6	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.6	5
10138	Benzo(a)anthracene	56-55-3	8.2	J	3.8	9.6	5
10138	Benzo(a)pyrene	50-32-8	9.2	J	3.8	9.6	5
10138	Benzo(b)fluoranthene	205-99-2	14		3.8	9.6	5
10138	Benzo(g,h,i)perylene	191-24-2	4.7	J	3.8	9.6	5
10138	Benzo(k)fluoranthene	207-08-9	9.2	J	3.8	9.6	5
10138	Chrysene	218-01-9	8.9	J	1.9	9.6	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.6	5
10138	Fluoranthene	206-44-0	12		3.8	9.6	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.6	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.6	5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.6	5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.6	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.6	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.6	5
10138	Phenanthrene	85-01-8	4.4	J	3.8	9.6	5
10138	Pyrene	129-00-0	11		3.8	9.6	5
	Reporting limits were raised due to interference from the sample matrix.						
	The recoveries of benzo(b)fluoranthene and benzo(a)pyrene are above QC limits in the LCS. This sample is the background sample. No further action was taken since all recoveries are within QC limits in the MS/MSD.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	8.1	U	8.1	8.1	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0	1
10401	MCPA	94-74-6	400	U	400	400	1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290	1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.18	J	0.087	0.20	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the						

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298888
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	1.9	J	0.92	3.9	1
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.39	1
01363	p,p-DDT	50-29-3	0.54	U	0.54	0.54	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.23	U	0.23	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.21	U	0.21	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.6	J	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	1.3	J	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,200		5.69	22.6	1
07914	Boron	7440-42-8	8.53		1.01	5.66	1
01650	Calcium	7440-70-2	6,930		6.94	22.6	1
01654	Iron	7439-89-6	34,800		26.7	113	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298888
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

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14420 Albemarle Point Place
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--057 SDG#: DE163-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	28.4		0.25	2.3	1
01657	Magnesium	7439-95-4	8,400		2.88	11.3	1
06958	Manganese	7439-96-5	477		0.0883	0.566	1
10145	Phosphorus	7723-14-0	523		0.634	11.3	1
01662	Potassium	7440-09-7	5,370		20.4	56.6	1
01667	Sodium	7440-23-5	104	J	42.2	113	1
07968	Strontium	7440-24-6	36.3		0.0702	0.566	1
06969	Tin	7440-31-5	2.73	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,480		0.430	1.13	1
10146	Zirconium	7440-67-7	4.02	J	0.951	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0992	J	0.0679	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.68		0.0906	0.453	2
06126	Barium	7440-39-3	122		0.122	0.453	2
06127	Beryllium	7440-41-7	0.743		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.314		0.0453	0.113	2
06131	Chromium	7440-47-3	27.4		0.136	0.453	2
06132	Cobalt	7440-48-4	10.7		0.0226	0.113	2
06133	Copper	7440-50-8	22.8		0.0747	0.453	2
06135	Lead	7439-92-1	13.0		0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.329		0.0566	0.113	2
06139	Nickel	7440-02-0	20.5		0.113	0.453	2
06141	Selenium	7782-49-2	0.133	J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0417	J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.342		0.0340	0.113	2
06148	Vanadium	7440-62-2	52.4		0.0249	0.113	2
06149	Zinc	7440-66-6	69.7		0.634	3.40	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0185	J	0.0032	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95	J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.28		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298888
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
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--057 SDG#: DE163-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 11:32	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 03:40	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/07/2011 23:17	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 06:10	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 07:26	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 12:36	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 20:49	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:18	David K Beck	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298888
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:18	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:18	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:18	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 17:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 16:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11151243201A	06/01/2011 17:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039403A	06/01/2011 23:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298889
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,000		19	190	1
04688	Acenaphthylene	208-96-8	2,000		19	190	1
04688	Aniline	62-53-3	1,300		190	580	1
04688	Anthracene	120-12-7	2,000		19	190	1
04688	Benzidine	92-87-5	2,100	J	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190	1
04688	Benzoic acid	65-85-0	1,100		190	580	1
04688	Benzyl alcohol	100-51-6	2,000		190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,100		19	190	1
04688	Di-n-butylphthalate	84-74-2	2,000		19	190	1
04688	Carbazole	86-74-8	2,000		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	2,000		38	190	1
04688	4-Chloroaniline	106-47-8	1,400		77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190	1
04688	2-Chlorophenol	95-57-8	1,900		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,000		38	190	1
04688	Chrysene	218-01-9	1,900		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190	1
04688	Dibenzofuran	132-64-9	2,000		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,800		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,800		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,800		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		120	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	2,000		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,900		38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190	1
04688	Dimethylphthalate	131-11-3	1,900		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	960		190	580	1
04688	2,4-Dinitrophenol	51-28-5	1,000	J	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	2,000		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	2,000		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200		19	380	1
04688	Fluoranthene	206-44-0	1,900		19	190	1
04688	Fluorene	86-73-7	2,000		19	190	1
04688	Hexachlorobenzene	118-74-1	2,000		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,800		77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,900		190	580	1
04688	Hexachloroethane	67-72-1	1,700		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		19	190	1
04688	Isophorone	78-59-1	2,000		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298889
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	2,000		19	190	1
04688	2-Methylnaphthalene	91-57-6	1,900		19	190	1
04688	2-Methylphenol	95-48-7	1,900		38	190	1
04688	4-Methylphenol	106-44-5	2,000		38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800		19	190	1
04688	2-Nitroaniline	88-74-4	2,000		19	190	1
04688	3-Nitroaniline	99-09-2	2,000		38	190	1
04688	4-Nitroaniline	100-01-6	1,500		77	190	1
04688	Nitrobenzene	98-95-3	1,900		19	190	1
04688	2-Nitrophenol	88-75-5	1,900		19	190	1
04688	4-Nitrophenol	100-02-7	1,800		190	580	1
04688	N-Nitrosodimethylamine	62-75-9	1,800		38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	2,000		19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,900		19	190	1
04688	Pentachlorophenol	87-86-5	1,700		190	580	1
04688	Phenanthrene	85-01-8	1,900		19	190	1
04688	Phenol	108-95-2	1,900		19	190	1
04688	Pyrene	129-00-0	1,900		19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	2,000		38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000		38	190	1
	The following compounds were detected in the method blank at the respective concentrations of: diethylphthalate 25 ug/kg di-n-butylphthalate 19 ug/kg bis(2-ethylhexyl)phthalate 19 ug/kg These blank values were not subtracted from the analytical results.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	38		3.8	9.6	5
10138	Acenaphthylene	208-96-8	36		1.9	9.6	5
10138	Anthracene	120-12-7	39		1.9	9.6	5
10138	Benzo(a)anthracene	56-55-3	42		3.8	9.6	5
10138	Benzo(a)pyrene	50-32-8	52		3.8	9.6	5
10138	Benzo(b)fluoranthene	205-99-2	56		3.8	9.6	5
10138	Benzo(g,h,i)perylene	191-24-2	34		3.8	9.6	5
10138	Benzo(k)fluoranthene	207-08-9	52		3.8	9.6	5
10138	Butylbenzylphthalate	85-68-7	42	J	35	100	5
10138	Di-n-butylphthalate	84-74-2	44	J	35	100	5
10138	Chrysene	218-01-9	42		1.9	9.6	5
10138	Dibenz(a,h)anthracene	53-70-3	43		3.8	9.6	5
10138	Diethylphthalate	84-66-2	39	J	35	100	5
10138	Dimethylphthalate	131-11-3	40	J	35	100	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298889
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56	J	35	100	5
10138	Fluoranthene	206-44-0	47		3.8	9.6	5
10138	Fluorene	86-73-7	39		3.8	9.6	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	44		3.8	9.6	5
10138	1-Methylnaphthalene	90-12-0	40		3.8	9.6	5
10138	2-Methylnaphthalene	91-57-6	36		3.8	9.6	5
10138	Naphthalene	91-20-3	38		3.8	9.6	5
10138	N-Nitrosodimethylamine	62-75-9	41		3.8	9.6	5
10138	Di-n-octylphthalate	117-84-0	50	J	35	100	5
10138	Phenanthrene	85-01-8	39		3.8	9.6	5
10138	Pyrene	129-00-0	39		3.8	9.6	5
Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.8		1.4	4.1	1
10401	Dalapon	75-99-0	10	J	5.1	10	1
10401	2,4-DB	94-82-6	4.6		0.72	2.0	1
10401	Dicamba	1918-00-9	0.60	J	0.46	1.4	1
10401	Dinoseb	88-85-7	1.9	J	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	8.6		0.92	2.0	1
10401	MCPA	94-74-6	680		88	290	1
10401	MCPP (Mecoprop)	93-65-2	550		86	290	1
10401	2,4,5-T	93-76-5	0.42		0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.60		0.087	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.32		0.076	0.20	1
01363	Alpha BHC	319-84-6	0.47		0.039	0.20	1
01363	Beta BHC	319-85-7	0.38		0.069	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.47		0.039	0.20	1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9	1
01363	p,p-DDD	72-54-8	0.70		0.076	0.39	1
01363	p,p-DDE	72-55-9	0.58		0.076	0.39	1
01363	p,p-DDT	50-29-3	1.5		0.076	0.39	1
01363	Delta BHC	319-86-8	0.38		0.042	0.20	1
01363	Dieldrin	60-57-1	0.64		0.076	0.39	1
01363	Endosulfan I	959-98-8	0.32		0.051	0.20	1
01363	Endosulfan II	33213-65-9	0.51		0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.46		0.076	0.39	1
01363	Endrin	72-20-8	0.99		0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.84		0.076	0.39	1
01363	Endrin Ketone	53494-70-5	0.68		0.076	0.39	1
01363	Heptachlor	76-44-8	0.54		0.069	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.36		0.039	0.20	1
01363	Methoxychlor	72-43-5	5.7		0.39	1.9	1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix							

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298889
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	2.1	J	1.2	3.8	1
10225	PCB-1016	12674-11-2	17		0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	19		0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,400		5.81	23.1	1
07914	Boron	7440-42-8	241		1.03	5.77	1
01650	Calcium	7440-70-2	7,310		7.08	23.1	1
01654	Iron	7439-89-6	39,900		27.2	115	5
01656	Lithium	7439-93-2	146		0.25	2.3	1
01657	Magnesium	7439-95-4	8,620		2.93	11.5	1
06958	Manganese	7439-96-5	498		0.0901	0.577	1
10145	Phosphorus	7723-14-0	593		0.647	11.5	1
01662	Potassium	7440-09-7	6,710		20.8	57.7	1
01667	Sodium	7440-23-5	1,200		43.1	115	1
07968	Strontium	7440-24-6	149		0.0716	0.577	1
06969	Tin	7440-31-5	388		1.15	11.5	1
06970	Titanium	7440-32-6	1,720		0.439	1.15	1
10146	Zirconium	7440-67-7	113		0.970	5.77	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.489		0.0673	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.76		0.0897	0.448	2
06126	Barium	7440-39-3	151		0.121	0.448	2
06127	Beryllium	7440-41-7	1.58		0.0179	0.112	2
06128	Cadmium	7440-43-9	1.55		0.0448	0.112	2
06131	Chromium	7440-47-3	38.9		0.135	0.448	2
06132	Cobalt	7440-48-4	67.5		0.0224	0.112	2
06133	Copper	7440-50-8	28.6		0.0740	0.448	2
06135	Lead	7439-92-1	17.9		0.0117	0.224	2
06138	Molybdenum	7439-98-7	10.1		0.0561	0.112	2
06139	Nickel	7440-02-0	34.7		0.112	0.448	2
06141	Selenium	7782-49-2	2.30		0.0448	0.448	2
06142	Silver	7440-22-4	11.0		0.0135	0.112	2
06145	Thallium	7440-28-0	0.791		0.0336	0.112	2
06148	Vanadium	7440-62-2	68.0		0.0247	0.112	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298889
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	89.0	0.628	3.36	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.276	0.0032	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.9	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	564	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	45.5	1.2	5.8	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 11:58	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 04:11	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/07/2011 23:44	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 06:24	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 07:44	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298889
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 12:46	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:01	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:27	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:27	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:27	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:27	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 17:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 17:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11151243201A	06/01/2011 18:07	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298890
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,300		190	580	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	2,000		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		19	190	1
04688	Benzoic acid	65-85-0	1,700		190	580	1
04688	Benzyl alcohol	100-51-6	1,800		190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190	1
04688	Butylbenzylphthalate	85-68-7	2,000		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190	1
04688	Carbazole	86-74-8	1,900		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		38	190	1
04688	4-Chloroaniline	106-47-8	1,400		77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,900		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,400		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		38	190	1
04688	Chrysene	218-01-9	1,900		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190	1
04688	Dibenzofuran	132-64-9	1,900		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		120	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,900		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190	1
04688	Dimethylphthalate	131-11-3	1,900		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500		190	580	1
04688	2,4-Dinitrophenol	51-28-5	2,200		380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	2,000		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200		19	380	1
04688	Fluoranthene	206-44-0	1,800		19	190	1
04688	Fluorene	86-73-7	1,900		19	190	1
04688	Hexachlorobenzene	118-74-1	1,900		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,700		77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		190	580	1
04688	Hexachloroethane	67-72-1	1,600		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		19	190	1
04688	Isophorone	78-59-1	1,900		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298890
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900		19	190	1
04688	2-Methylnaphthalene	91-57-6	1,800		19	190	1
04688	2-Methylphenol	95-48-7	1,800		38	190	1
04688	4-Methylphenol	106-44-5	1,900		38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,800		19	190	1
04688	2-Nitroaniline	88-74-4	2,000		19	190	1
04688	3-Nitroaniline	99-09-2	1,900		38	190	1
04688	4-Nitroaniline	100-01-6	1,700		77	190	1
04688	Nitrobenzene	98-95-3	1,800		19	190	1
04688	2-Nitrophenol	88-75-5	1,900		19	190	1
04688	4-Nitrophenol	100-02-7	1,700		190	580	1
04688	N-Nitrosodimethylamine	62-75-9	1,700		38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800		19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,800		19	190	1
04688	Pentachlorophenol	87-86-5	1,800		190	580	1
04688	Phenanthrene	85-01-8	1,900		19	190	1
04688	Phenol	108-95-2	1,800		19	190	1
04688	Pyrene	129-00-0	1,800		19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000		38	190	1
	The following compounds were detected in the method blank at the respective concentrations of: diethylphthalate 25 ug/kg di-n-butylphthalate 19 ug/kg bis(2-ethylhexyl)phthalate 19 ug/kg These blank values were not subtracted from the analytical results.						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34		3.8	9.6	5
10138	Acenaphthylene	208-96-8	33		1.9	9.6	5
10138	Anthracene	120-12-7	36		1.9	9.6	5
10138	Benzo(a)anthracene	56-55-3	40		3.8	9.6	5
10138	Benzo(a)pyrene	50-32-8	49		3.8	9.6	5
10138	Benzo(b)fluoranthene	205-99-2	55		3.8	9.6	5
10138	Benzo(g,h,i)perylene	191-24-2	30		3.8	9.6	5
10138	Benzo(k)fluoranthene	207-08-9	48		3.8	9.6	5
10138	Butylbenzylphthalate	85-68-7	38	J	35	100	5
10138	Di-n-butylphthalate	84-74-2	39	J	35	100	5
10138	Chrysene	218-01-9	39		1.9	9.6	5
10138	Dibenz(a,h)anthracene	53-70-3	38		3.8	9.6	5
10138	Diethylphthalate	84-66-2	35	J	35	100	5
10138	Dimethylphthalate	131-11-3	37	J	35	100	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298890
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	J	35	100	5
10138	Fluoranthene	206-44-0	42		3.8	9.6	5
10138	Fluorene	86-73-7	35		3.8	9.6	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		3.8	9.6	5
10138	1-Methylnaphthalene	90-12-0	36		3.8	9.6	5
10138	2-Methylnaphthalene	91-57-6	33		3.8	9.6	5
10138	Naphthalene	91-20-3	35		3.8	9.6	5
10138	N-Nitrosodimethylamine	62-75-9	37		3.8	9.6	5
10138	Di-n-octylphthalate	117-84-0	49	J	35	100	5
10138	Phenanthrene	85-01-8	36		3.8	9.6	5
10138	Pyrene	129-00-0	35		3.8	9.6	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.2		1.4	4.1	1
10401	Dalapon	75-99-0	11		5.1	10	1
10401	2,4-DB	94-82-6	2.8		0.72	2.0	1
10401	Dicamba	1918-00-9	0.64	J	0.46	1.4	1
10401	Dinoseb	88-85-7	1.7	J	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.92	2.0	1
10401	MCPA	94-74-6	810		87	290	1
10401	MCPP (Mecoprop)	93-65-2	670		86	290	1
10401	2,4,5-T	93-76-5	0.54		0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.77		0.087	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.32		0.076	0.20	1
01363	Alpha BHC	319-84-6	0.45		0.039	0.20	1
01363	Beta BHC	319-85-7	0.36		0.069	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.45		0.039	0.20	1
01363	Chlordane	57-74-9	0.92	U	0.92	3.9	1
01363	p,p-DDD	72-54-8	0.66		0.076	0.39	1
01363	p,p-DDE	72-55-9	0.55		0.076	0.39	1
01363	p,p-DDT	50-29-3	1.5		0.076	0.39	1
01363	Delta BHC	319-86-8	0.37		0.042	0.20	1
01363	Dieldrin	60-57-1	0.62		0.076	0.39	1
01363	Endosulfan I	959-98-8	0.32		0.051	0.20	1
01363	Endosulfan II	33213-65-9	0.58		0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.43		0.076	0.39	1
01363	Endrin	72-20-8	1.0		0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.88		0.076	0.39	1
01363	Endrin Ketone	53494-70-5	0.70		0.076	0.39	1
01363	Heptachlor	76-44-8	0.54		0.069	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.35		0.039	0.20	1
01363	Methoxychlor	72-43-5	5.6		0.39	1.9	1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix						

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298890
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	3.3	J	1.2	3.8	1
10225	PCB-1016	12674-11-2	17		0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	18		0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	40,000		5.69	22.6	1
07914	Boron	7440-42-8	236		1.01	5.66	1
01650	Calcium	7440-70-2	7,550		6.94	22.6	1
01654	Iron	7439-89-6	36,400		26.7	113	5
01656	Lithium	7439-93-2	145		0.25	2.3	1
01657	Magnesium	7439-95-4	8,960		2.88	11.3	1
06958	Manganese	7439-96-5	544		0.0883	0.566	1
10145	Phosphorus	7723-14-0	577		0.634	11.3	1
01662	Potassium	7440-09-7	6,750		20.4	56.6	1
01667	Sodium	7440-23-5	1,200		42.2	113	1
07968	Strontium	7440-24-6	148		0.0702	0.566	1
06969	Tin	7440-31-5	382		1.13	11.3	1
06970	Titanium	7440-32-6	1,750		0.430	1.13	1
10146	Zirconium	7440-67-7	111		0.951	5.66	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.478		0.0673	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.39		0.0897	0.448	2
06126	Barium	7440-39-3	147		0.121	0.448	2
06127	Beryllium	7440-41-7	1.57		0.0179	0.112	2
06128	Cadmium	7440-43-9	1.53		0.0448	0.112	2
06131	Chromium	7440-47-3	39.7		0.135	0.448	2
06132	Cobalt	7440-48-4	66.4		0.0224	0.112	2
06133	Copper	7440-50-8	27.6		0.0740	0.448	2
06135	Lead	7439-92-1	16.6		0.0117	0.224	2
06138	Molybdenum	7439-98-7	10.2		0.0561	0.112	2
06139	Nickel	7440-02-0	34.1		0.112	0.448	2
06141	Selenium	7782-49-2	2.27		0.0448	0.448	2
06142	Silver	7440-22-4	11.1		0.0135	0.112	2
06145	Thallium	7440-28-0	0.745		0.0336	0.112	2
06148	Vanadium	7440-62-2	68.8		0.0247	0.112	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298890
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MSD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc		7440-66-6	89.0	0.628	3.36	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.209	0.0033	0.114	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3		n.a.	13.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 12:25	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 04:43	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 00:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 06:39	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 09:17	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 12:50	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298890
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:05	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:30	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:30	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:30	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298891
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,700		5.75	22.9	1
07914	Boron	7440-42-8	9.68		1.02	5.72	1
01650	Calcium	7440-70-2	9,480		7.01	22.9	1
01654	Iron	7439-89-6	34,800		26.9	114	5
01656	Lithium	7439-93-2	27.5		0.25	2.3	1
01657	Magnesium	7439-95-4	7,490		2.90	11.4	1
06958	Manganese	7439-96-5	546		0.0892	0.572	1
10145	Phosphorus	7723-14-0	1,720		0.640	11.4	1
01662	Potassium	7440-09-7	5,070		20.6	57.2	1
01667	Sodium	7440-23-5	151		42.6	114	1
07968	Strontium	7440-24-6	56.2		0.0709	0.572	1
06969	Tin	7440-31-5	2.60	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,310		0.434	1.14	1
10146	Zirconium	7440-67-7	5.58	J	0.960	5.72	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0943	J	0.0686	0.229	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.30		0.0915	0.457	2
06126	Barium	7440-39-3	134		0.123	0.457	2
06127	Beryllium	7440-41-7	0.823		0.0183	0.114	2
06128	Cadmium	7440-43-9	0.362		0.0457	0.114	2
06131	Chromium	7440-47-3	29.7		0.137	0.457	2
06132	Cobalt	7440-48-4	11.2		0.0229	0.114	2
06133	Copper	7440-50-8	17.6		0.0755	0.457	2
06135	Lead	7439-92-1	11.9		0.0119	0.229	2
06138	Molybdenum	7439-98-7	0.316		0.0572	0.114	2
06139	Nickel	7440-02-0	23.4		0.114	0.457	2
06141	Selenium	7782-49-2	0.130	J	0.0457	0.457	2
06142	Silver	7440-22-4	0.0490	J	0.0137	0.114	2
06145	Thallium	7440-28-0	0.361		0.0343	0.114	2
06148	Vanadium	7440-62-2	57.2		0.0252	0.114	2
06149	Zinc	7440-66-6	76.6		0.640	3.43	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0566	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298891
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 12:43	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 20:57	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:24	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:24	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:24	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298891
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--057 SDG#: DE163-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:24	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 17:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 16:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11151243201A	06/01/2011 18:42	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039403A	06/01/2011 23:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298892
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:27

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--185 SDG#: DE163-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	74	U	74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	74	U	74	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298892
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:27

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--185 SDG#: DE163-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2	5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2	5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2	5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.2	5
10138	Benzo(b)fluoranthene	205-99-2	4.8	J	3.7	9.2	5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.2	5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2	5
10138	Chrysene	218-01-9	2.8	J	1.8	9.2	5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2	5
10138	Fluoranthene	206-44-0	3.9	J	3.7	9.2	5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2	5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2	5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2	5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2	5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2	5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2	5
10138	Pyrene	129-00-0	3.9	J	3.7	9.2	5
	Reporting limits were raised due to interference from the sample matrix.						
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.9	U	4.9	9.9	1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9	1
10401	MCPA	94-74-6	320	U	320	320	1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	280	1

*=This limit was used in the evaluation of the final result

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SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298892
LLI Group # 1248708
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Project Name: SSFL Area IV Collocated Soil Sampling

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--185 SDG#: DE163-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18	1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18	1
01363	Chlordane	57-74-9	0.89	U	0.89	3.8	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38	1
01363	p,p-DDE	72-55-9	0.10	U	0.10	0.38	1
01363	p,p-DDT	50-29-3	0.38	U	0.38	0.38	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38	1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18	1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38	1
01363	Endrin	72-20-8	0.073	U	0.073	0.38	1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38	1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.18	1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8	1
01363	Mirex	2385-85-5	0.24	U	0.24	0.38	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	4.0		1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	3.1		0.37	1.9	1
10225	PCB-1260	11096-82-5	0.87	J	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
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SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298892
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--185 SDG#: DE163-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.58	22.2	1
07914	Boron	7440-42-8	3.78	J	0.987	5.54	1
01650	Calcium	7440-70-2	17,100		6.80	22.2	1
01654	Iron	7439-89-6	32,400		26.1	111	5
01656	Lithium	7439-93-2	30.1		0.24	2.2	1
01657	Magnesium	7439-95-4	8,570		2.82	11.1	1
06958	Manganese	7439-96-5	411		0.0865	0.554	1
10145	Phosphorus	7723-14-0	449		0.621	11.1	1
01662	Potassium	7440-09-7	2,810		20.0	55.4	1
01667	Sodium	7440-23-5	94.1	J	41.4	111	1
07968	Strontium	7440-24-6	32.2		0.0687	0.554	1
06969	Tin	7440-31-5	2.46	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,160		0.421	1.11	1
10146	Zirconium	7440-67-7	1.21	J	0.931	5.54	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.186	J	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.95		0.0870	0.435	2
06126	Barium	7440-39-3	88.9		0.117	0.435	2
06127	Beryllium	7440-41-7	0.442		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.195		0.0435	0.109	2
06131	Chromium	7440-47-3	32.9		0.130	0.435	2
06132	Cobalt	7440-48-4	10.8		0.0217	0.109	2
06133	Copper	7440-50-8	13.3		0.0717	0.435	2
06135	Lead	7439-92-1	17.0		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.355		0.0543	0.109	2
06139	Nickel	7440-02-0	19.2		0.109	0.435	2
06141	Selenium	7782-49-2	0.0850	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0203	J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.196		0.0326	0.109	2
06148	Vanadium	7440-62-2	53.5		0.0239	0.109	2
06149	Zinc	7440-66-6	62.8		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298892
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--185 SDG#: DE163-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.30	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 13:18	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 09:12	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 00:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 07:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 09:35	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 12:57	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298892
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:27

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--185 SDG#: DE163-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:13	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:36	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:36	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 17:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 17:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11151243201A	06/01/2011 18:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298893
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP6 SDG#: DE163-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	400	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298893
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP6 SDG#: DE163-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	9.9	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.9	5
10138	Anthracene	120-12-7	2.0	U	2.0	9.9	5
10138	Benzo(a)anthracene	56-55-3	4.3	J	4.0	9.9	5
10138	Benzo(a)pyrene	50-32-8	5.0	J	4.0	9.9	5
10138	Benzo(b)fluoranthene	205-99-2	7.9	J	4.0	9.9	5
10138	Benzo(g,h,i)perylene	191-24-2	4.4	J	4.0	9.9	5
10138	Benzo(k)fluoranthene	207-08-9	4.1	J	4.0	9.9	5
10138	Chrysene	218-01-9	4.8	J	2.0	9.9	5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	9.9	5
10138	Fluoranthene	206-44-0	6.7	J	4.0	9.9	5
10138	Fluorene	86-73-7	4.0	U	4.0	9.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U	4.0	9.9	5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	9.9	5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	9.9	5
10138	Naphthalene	91-20-3	4.0	U	4.0	9.9	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	9.9	5
10138	Phenanthrene	85-01-8	4.0	U	4.0	9.9	5
10138	Pyrene	129-00-0	6.6	J	4.0	9.9	5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of benzo(b)fluoranthene and benzo(a)pyrene were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and several compounds were above QC limits in the LCS. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	320	U	320	320	1
10401	MCPP (Mecoprop)	93-65-2	570		89	300	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298893
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP6 SDG#: DE163-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0	1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40	1
01363	p,p-DDE	72-55-9	0.078	U	0.078	0.40	1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.40	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.087	U	0.087	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1
	The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298893
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP6 SDG#: DE163-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,800		5.85	23.3	1
07914	Boron	7440-42-8	9.41		1.04	5.81	1
01650	Calcium	7440-70-2	6,710		7.13	23.3	1
01654	Iron	7439-89-6	35,300		27.4	116	5
01656	Lithium	7439-93-2	28.9		0.26	2.3	1
01657	Magnesium	7439-95-4	8,260		2.95	11.6	1
06958	Manganese	7439-96-5	440		0.0907	0.581	1
10145	Phosphorus	7723-14-0	447		0.651	11.6	1
01662	Potassium	7440-09-7	5,110		20.9	58.1	1
01667	Sodium	7440-23-5	98.5	J	43.4	116	1
07968	Strontium	7440-24-6	37.2		0.0721	0.581	1
06969	Tin	7440-31-5	2.84	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,470		0.442	1.16	1
10146	Zirconium	7440-67-7	4.13	J	0.977	5.81	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0705	0.235	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.49		0.0940	0.470	2
06126	Barium	7440-39-3	140		0.127	0.470	2
06127	Beryllium	7440-41-7	0.841		0.0188	0.117	2
06128	Cadmium	7440-43-9	0.351		0.0470	0.117	2
06131	Chromium	7440-47-3	31.7		0.141	0.470	2
06132	Cobalt	7440-48-4	11.9		0.0235	0.117	2
06133	Copper	7440-50-8	18.7		0.0775	0.470	2
06135	Lead	7439-92-1	19.1		0.0122	0.235	2
06138	Molybdenum	7439-98-7	0.341		0.0587	0.117	2
06139	Nickel	7440-02-0	22.5		0.117	0.470	2
06141	Selenium	7782-49-2	0.122	J	0.0470	0.470	2
06142	Silver	7440-22-4	0.0410	J	0.0141	0.117	2
06145	Thallium	7440-28-0	0.348		0.0352	0.117	2
06148	Vanadium	7440-62-2	59.1		0.0258	0.117	2
06149	Zinc	7440-66-6	78.2		0.658	3.52	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0319	J	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.24	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298893
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP6 SDG#: DE163-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 13:44	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 09:43	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 01:07	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 07:21	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 09:54	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 13:00	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298893
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP6 SDG#: DE163-03FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:25	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:39	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:39	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 18:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 18:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11151243201A	06/01/2011 19:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298894
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--001 SDG#: DE163-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298894
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--001 SDG#: DE163-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.5	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.5	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.5	5
10138	Benzo(a)anthracene	56-55-3	3.8	U	3.8	9.5	5
10138	Benzo(a)pyrene	50-32-8	3.8	U	3.8	9.5	5
10138	Benzo(b)fluoranthene	205-99-2	7.0	J	3.8	9.5	5
10138	Benzo(g,h,i)perylene	191-24-2	3.8	U	3.8	9.5	5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U	3.8	9.5	5
10138	Chrysene	218-01-9	4.8	J	1.9	9.5	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.5	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	J	34	100	5
10138	Fluoranthene	206-44-0	6.9	J	3.8	9.5	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.5	5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.5	5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.5	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.5	5
10138	Phenanthrene	85-01-8	3.8	U	3.8	9.5	5
10138	Pyrene	129-00-0	5.4	J	3.8	9.5	5

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
benzo(b)fluoranthene

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	2.4	U	2.4	2.4	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	800	U	800	800	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298894
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--001 SDG#: DE163-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.19	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.068	U	0.068	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	2.7	J	0.91	3.9	1
01363	p,p-DDD	72-54-8	0.075	U	0.075	0.39	1
01363	p,p-DDE	72-55-9	0.79		0.075	0.39	1
01363	p,p-DDT	50-29-3	0.59	U	0.59	0.59	1
01363	Delta BHC	319-86-8	0.043	J	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.050	U	0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.087	U	0.087	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.31	U	0.31	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	5.6		1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	2.5		0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298894
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--001 SDG#: DE163-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,600		5.52	22.0	1
07914	Boron	7440-42-8	7.51		0.977	5.49	1
01650	Calcium	7440-70-2	6,900		6.73	22.0	1
01654	Iron	7439-89-6	33,400		25.8	110	5
01656	Lithium	7439-93-2	26.2		0.24	2.2	1
01657	Magnesium	7439-95-4	6,930		2.79	11.0	1
06958	Manganese	7439-96-5	431		0.0856	0.549	1
10145	Phosphorus	7723-14-0	328		0.615	11.0	1
01662	Potassium	7440-09-7	5,560		19.8	54.9	1
01667	Sodium	7440-23-5	87.6	J	40.9	110	1
07968	Strontium	7440-24-6	34.8		0.0681	0.549	1
06969	Tin	7440-31-5	2.79	J	1.10	11.0	1
06970	Titanium	7440-32-6	1,330		0.417	1.10	1
10146	Zirconium	7440-67-7	4.32	J	0.922	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0652	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.08		0.0870	0.435	2
06126	Barium	7440-39-3	137		0.117	0.435	2
06127	Beryllium	7440-41-7	0.809		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.365		0.0435	0.109	2
06131	Chromium	7440-47-3	29.4		0.130	0.435	2
06132	Cobalt	7440-48-4	11.3		0.0217	0.109	2
06133	Copper	7440-50-8	16.6		0.0718	0.435	2
06135	Lead	7439-92-1	13.6		0.0113	0.217	2
06138	Molybdenum	7439-98-7	0.479		0.0544	0.109	2
06139	Nickel	7440-02-0	22.1		0.109	0.435	2
06141	Selenium	7782-49-2	0.219	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0456	J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.365		0.0326	0.109	2
06148	Vanadium	7440-62-2	55.4		0.0239	0.109	2
06149	Zinc	7440-66-6	74.5		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0032	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.23	1.1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298894
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--001 SDG#: DE163-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 14:11	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 10:15	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 01:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 07:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 10:12	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 13:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298894
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--001 SDG#: DE163-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:29	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:48	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:48	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 18:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 18:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11151243201A	06/03/2011 19:42	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298895
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--002 SDG#: DE163-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298895
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--002 SDG#: DE163-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8	5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8	5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.8	5
10138	Benzo(a)pyrene	50-32-8	3.5	U	3.5	8.8	5
10138	Benzo(b)fluoranthene	205-99-2	6.0	J	3.5	8.8	5
10138	Benzo(g,h,i)perylene	191-24-2	3.5	U	3.5	8.8	5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.8	5
10138	Chrysene	218-01-9	4.4	J	1.8	8.8	5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	69	J	32	95	5
10138	Fluoranthene	206-44-0	4.6	J	3.5	8.8	5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.8	5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8	5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8	5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8	5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8	5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.8	5
10138	Pyrene	129-00-0	4.5	J	3.5	8.8	5
	Reporting limits were raised due to interference from the sample matrix.						
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzo(b)fluoranthene						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	530		80	260	1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298895
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--002 SDG#: DE163-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.12	J	0.079	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	1.6	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.36	1
01363	p,p-DDT	50-29-3	0.77	U	0.77	0.77	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.079	U	0.079	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.18	U	0.18	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	7.5		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	12		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.7		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.04	20.0	1
07914	Boron	7440-42-8	2.17	J	0.891	5.01	1
01650	Calcium	7440-70-2	12,600		6.14	20.0	1
01654	Iron	7439-89-6	19,000		4.72	20.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298895
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--002 SDG#: DE163-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	13.6		0.22	2.0	1
01657	Magnesium	7439-95-4	4,670		2.54	10.0	1
06958	Manganese	7439-96-5	317		0.0781	0.501	1
10145	Phosphorus	7723-14-0	436		0.561	10.0	1
01662	Potassium	7440-09-7	2,580		18.0	50.1	1
01667	Sodium	7440-23-5	245		37.4	100	1
07968	Strontium	7440-24-6	36.2		0.0621	0.501	1
06969	Tin	7440-31-5	2.03	J	1.00	10.0	1
06970	Titanium	7440-32-6	884		0.381	1.00	1
10146	Zirconium	7440-67-7	3.15	J	0.841	5.01	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0607	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.68		0.0809	0.404	2
06126	Barium	7440-39-3	92.5		0.109	0.404	2
06127	Beryllium	7440-41-7	0.340		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.205		0.0404	0.101	2
06131	Chromium	7440-47-3	18.7		0.121	0.404	2
06132	Cobalt	7440-48-4	6.52		0.0202	0.101	2
06133	Copper	7440-50-8	13.8		0.0667	0.404	2
06135	Lead	7439-92-1	7.41		0.0105	0.202	2
06138	Molybdenum	7439-98-7	0.575		0.0506	0.101	2
06139	Nickel	7440-02-0	10.9		0.101	0.404	2
06141	Selenium	7782-49-2	0.0930	J	0.0404	0.404	2
06142	Silver	7440-22-4	0.0310	J	0.0121	0.101	2
06145	Thallium	7440-28-0	0.170		0.0303	0.101	2
06148	Vanadium	7440-62-2	35.2		0.0222	0.101	2
06149	Zinc	7440-66-6	47.1		0.566	3.03	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0228	J	0.0028	0.0990	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.30		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298895
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--002 SDG#: DE163-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 14:37	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 10:48	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 02:02	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 08:02	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 10:31	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:33	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298895
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--002 SDG#: DE163-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:51	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:51	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 18:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 18:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11151243201A	06/03/2011 19:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298896
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--004 SDG#: DE163-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298896
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--004 SDG#: DE163-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1	5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	9.1	5
10138	Benzo(a)pyrene	50-32-8	8.7	J	3.6	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	5.2	J	3.6	9.1	5
10138	Benzo(g,h,i)perylene	191-24-2	12		3.6	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	6.4	J	3.6	9.1	5
10138	Chrysene	218-01-9	1.8	U	1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1	5
10138	Fluoranthene	206-44-0	3.6	U	3.6	9.1	5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1	5
10138	1-Methylnaphthalene	90-12-0	5.6	J	3.6	9.1	5
10138	2-Methylnaphthalene	91-57-6	7.3	J	3.6	9.1	5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1	5
10138	Phenanthrene	85-01-8	4.9	J	3.6	9.1	5
10138	Pyrene	129-00-0	3.6	U	3.6	9.1	5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of benzo(b)fluoranthene and benzo(a)pyrene were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and several compounds were above QC limits in the LCS. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8	1
10401	2,4-DB	94-82-6	2.9		0.68	1.9	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9	1
10401	MCPA	94-74-6	83	U	83	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298896
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--004 SDG#: DE163-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.38	U	0.38	0.38	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.096	U	0.096	0.37	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.072	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,500		5.38	21.4	1
07914	Boron	7440-42-8	0.953	U	0.953	5.35	1
01650	Calcium	7440-70-2	3,680		6.56	21.4	1
01654	Iron	7439-89-6	26,400		5.04	21.4	1
01656	Lithium	7439-93-2	19.7		0.24	2.1	1
01657	Magnesium	7439-95-4	8,040		2.72	10.7	1
06958	Manganese	7439-96-5	229		0.0835	0.535	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298896
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--004 SDG#: DE163-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	444		0.599	10.7	1
01662	Potassium	7440-09-7	2,780		19.3	53.5	1
01667	Sodium	7440-23-5	140		39.9	107	1
07968	Strontium	7440-24-6	23.1		0.0664	0.535	1
06969	Tin	7440-31-5	2.31	J	1.07	10.7	1
06970	Titanium	7440-32-6	1,080		0.407	1.07	1
10146	Zirconium	7440-67-7	1.68	J	0.899	5.35	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0642	U	0.0642	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.36		0.0856	0.428	2
06126	Barium	7440-39-3	91.3		0.116	0.428	2
06127	Beryllium	7440-41-7	0.564		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.0740	J	0.0428	0.107	2
06131	Chromium	7440-47-3	15.3		0.128	0.428	2
06132	Cobalt	7440-48-4	8.37		0.0214	0.107	2
06133	Copper	7440-50-8	12.6		0.0706	0.428	2
06135	Lead	7439-92-1	6.28		0.0111	0.214	2
06138	Molybdenum	7439-98-7	0.347		0.0535	0.107	2
06139	Nickel	7440-02-0	12.9		0.107	0.428	2
06141	Selenium	7782-49-2	0.0809	J	0.0428	0.428	2
06142	Silver	7440-22-4	0.0205	J	0.0128	0.107	2
06145	Thallium	7440-28-0	0.229		0.0321	0.107	2
06148	Vanadium	7440-62-2	46.5		0.0235	0.107	2
06149	Zinc	7440-66-6	52.3		0.599	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.39		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298896
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--004 SDG#: DE163-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 15:04	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 11:20	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 02:29	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 08:16	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 10:49	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:38	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298896
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--004 SDG#: DE163-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:54	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:54	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 18:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 19:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11151243201A	06/03/2011 20:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298897
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--005 SDG#: DE163-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190	1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	Diethylphthalate	84-66-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	Dimethylphthalate	131-11-3	19	U	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U	19	380	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298897
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--005 SDG#: DE163-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	19	U	19	190	1
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.8	U	3.8	9.4	5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.4	5
10138	Anthracene	120-12-7	1.9	U	1.9	9.4	5
10138	Benzo(a)anthracene	56-55-3	7.4	J	3.8	9.4	5
10138	Benzo(a)pyrene	50-32-8	7.4	J	3.8	9.4	5
10138	Benzo(b)fluoranthene	205-99-2	17		3.8	9.4	5
10138	Benzo(g,h,i)perylene	191-24-2	4.7	J	3.8	9.4	5
10138	Benzo(k)fluoranthene	207-08-9	8.4	J	3.8	9.4	5
10138	Chrysene	218-01-9	11		1.9	9.4	5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	U	3.8	9.4	5
10138	Fluoranthene	206-44-0	22		3.8	9.4	5
10138	Fluorene	86-73-7	3.8	U	3.8	9.4	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U	3.8	9.4	5
10138	1-Methylnaphthalene	90-12-0	3.8	U	3.8	9.4	5
10138	2-Methylnaphthalene	91-57-6	3.8	U	3.8	9.4	5
10138	Naphthalene	91-20-3	3.8	U	3.8	9.4	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U	3.8	9.4	5
10138	Phenanthrene	85-01-8	12		3.8	9.4	5
10138	Pyrene	129-00-0	16		3.8	9.4	5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of benzo(b)fluoranthene and benzo(a)pyrene were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and several compounds were above QC limits in the LCS. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.0	U	5.0	10	1
10401	2,4-DB	94-82-6	2.8	U	2.8	2.8	1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.4	1
10401	Dinoseb	88-85-7	0.91	U	0.91	2.7	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.91	U	0.91	1.9	1
10401	MCPA	94-74-6	1,500		86	280	1
10401	MCPP (Mecoprop)	93-65-2	85	U	85	280	1
10401	2,4,5-T	93-76-5	0.093	U	0.093	0.19	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298897
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--005 SDG#: DE163-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.075	U	0.075	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.076	U	0.076	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.056	J	0.039	0.19	1
01363	Chlordane	57-74-9	4.0		0.91	3.9	1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.39	1
01363	p,p-DDE	72-55-9	1.0	U	1.0	1.0	1
01363	p,p-DDT	50-29-3	1.3		0.075	0.39	1
01363	Delta BHC	319-86-8	0.060	J	0.041	0.19	1
01363	Dieldrin	60-57-1	0.075	U	0.075	0.39	1
01363	Endosulfan I	959-98-8	0.33		0.050	0.19	1
01363	Endosulfan II	33213-65-9	0.36	U	0.36	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.39	1
01363	Endrin	72-20-8	0.12	J	0.075	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.39	1
01363	Endrin Ketone	53494-70-5	0.075	U	0.075	0.39	1
01363	Heptachlor	76-44-8	0.068	U	0.068	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.77	U	0.77	0.77	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.5	1
	The LCS recovery for p,p-DDT is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.5	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.5	2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.5	2
10225	PCB-1016	12674-11-2	0.75	U	0.75	3.9	2
10225	PCB-1221	11104-28-2	0.75	U	0.75	3.9	2
10225	PCB-1232	11141-16-5	0.75	U	0.75	3.9	2
10225	PCB-1242	53469-21-9	0.75	U	0.75	3.9	2
10225	PCB-1248	12672-29-6	0.75	U	0.75	3.9	2
10225	PCB-1254	11097-69-1	2.3	J	0.75	3.9	2
10225	PCB-1260	11096-82-5	1.5	J	0.88	3.9	2
10225	PCB-1262	37324-23-5	0.75	U	0.75	3.9	2
10225	PCB-1268	11100-14-4	0.75	U	0.75	3.9	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298897
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--005 SDG#: DE163-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,900		5.58	22.2	1
07914	Boron	7440-42-8	9.80		0.988	5.55	1
01650	Calcium	7440-70-2	6,950		6.81	22.2	1
01654	Iron	7439-89-6	33,000		26.1	111	5
01656	Lithium	7439-93-2	25.4		0.24	2.2	1
01657	Magnesium	7439-95-4	7,320		2.82	11.1	1
06958	Manganese	7439-96-5	465		0.0866	0.555	1
10145	Phosphorus	7723-14-0	461		0.622	11.1	1
01662	Potassium	7440-09-7	6,780		20.0	55.5	1
01667	Sodium	7440-23-5	86.7	J	41.4	111	1
07968	Strontium	7440-24-6	35.5		0.0688	0.555	1
06969	Tin	7440-31-5	2.68	J	1.11	11.1	1
06970	Titanium	7440-32-6	1,300		0.422	1.11	1
10146	Zirconium	7440-67-7	4.74	J	0.933	5.55	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0666	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.74		0.0888	0.444	2
06126	Barium	7440-39-3	128		0.120	0.444	2
06127	Beryllium	7440-41-7	0.783		0.0178	0.111	2
06128	Cadmium	7440-43-9	0.424		0.0444	0.111	2
06131	Chromium	7440-47-3	29.1		0.133	0.444	2
06132	Cobalt	7440-48-4	10.3		0.0222	0.111	2
06133	Copper	7440-50-8	17.2		0.0733	0.444	2
06135	Lead	7439-92-1	13.6		0.0115	0.222	2
06138	Molybdenum	7439-98-7	0.542		0.0555	0.111	2
06139	Nickel	7440-02-0	21.6		0.111	0.444	2
06141	Selenium	7782-49-2	0.223	J	0.0444	0.444	2
06142	Silver	7440-22-4	0.0414	J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.356		0.0333	0.111	2
06148	Vanadium	7440-62-2	53.1		0.0244	0.111	2
06149	Zinc	7440-66-6	79.5		0.622	3.33	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	J	0.0032	0.112	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.91	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298897
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--005 SDG#: DE163-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.72		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 15:30	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 11:52	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 03:51	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 08:29	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 11:08	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 13:07	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298897
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--005 SDG#: DE163-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:42	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 04:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 04:57	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 04:57	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 04:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 19:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 20:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11151243201A	06/03/2011 20:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298898
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--006 SDG#: DE163-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzo(a)anthracene	56-55-3	95	J	20	200	1
04688	Benzo(a)pyrene	50-32-8	150	J	20	200	1
04688	Benzo(b)fluoranthene	205-99-2	150	J	20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	96	J	20	200	1
04688	Benzo(k)fluoranthene	207-08-9	67	J	20	200	1
04688	Benzoic acid	65-85-0	200	U	200	600	1
04688	Benzyl alcohol	100-51-6	200	U	200	600	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200	1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	80	U	80	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Chrysene	218-01-9	120	J	20	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	Diethylphthalate	84-66-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	Dimethylphthalate	131-11-3	20	U	20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U	20	400	1
04688	Fluoranthene	206-44-0	150	J	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	99	J	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298898
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--006 SDG#: DE163-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	80	U	80	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	600	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U	20	200	1
04688	Pentachlorophenol	87-86-5	200	U	200	600	1
04688	Phenanthrene	85-01-8	42	J	20	200	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	Pyrene	129-00-0	170	J	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.0	U	4.0	10	5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10	5
10138	Anthracene	120-12-7	2.0	U	2.0	10	5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U	4.0	10	5
10138	Fluorene	86-73-7	4.0	U	4.0	10	5
10138	1-Methylnaphthalene	90-12-0	4.0	U	4.0	10	5
10138	2-Methylnaphthalene	91-57-6	4.0	U	4.0	10	5
10138	Naphthalene	91-20-3	4.0	U	4.0	10	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U	4.0	10	5
	Reporting limits were raised due to interference from the sample matrix.						
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.3	U	5.3	11	1
10401	2,4-DB	94-82-6	2.5	U	2.5	2.5	1
10401	Dicamba	1918-00-9	0.48	U	0.48	1.4	1
10401	Dinoseb	88-85-7	0.96	U	0.96	2.9	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.96	U	0.96	2.0	1
10401	MCPA	94-74-6	360	U	360	360	1
10401	MCPP (Mecoprop)	93-65-2	90	U	90	300	1
10401	2,4,5-T	93-76-5	0.098	U	0.098	0.20	1
10401	2,4,5-TP	93-72-1	0.090	U	0.090	0.20	1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298898
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--006 SDG#: DE163-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.079	U	0.079	0.20	1
01363	Alpha BHC	319-84-6	0.041	U	0.041	0.20	1
01363	Beta BHC	319-85-7	0.072	U	0.072	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.20	1
01363	Chlordane	57-74-9	2.1	J	0.96	4.1	1
01363	p,p-DDD	72-54-8	0.079	U	0.079	0.41	1
01363	p,p-DDE	72-55-9	0.58		0.079	0.41	1
01363	p,p-DDT	50-29-3	3.0		0.079	0.41	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.41	1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.20	1
01363	Endosulfan II	33213-65-9	0.079	U	0.079	0.41	1
01363	Endosulfan Sulfate	1031-07-8	0.079	U	0.079	0.41	1
01363	Endrin	72-20-8	0.14	U	0.14	0.41	1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.41	1
01363	Endrin Ketone	53494-70-5	0.079	U	0.079	0.41	1
01363	Heptachlor	76-44-8	0.072	U	0.072	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.20	1
01363	Methoxychlor	72-43-5	0.41	U	0.41	2.0	1
01363	Mirex	2385-85-5	0.34	U	0.34	0.41	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.9	1

The LCS recovery for p,p-DDT is outside the QC limits.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0	1
10225	Aroclor 5460	11126-42-4	9.0		1.2	4.0	1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0	1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.0	1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.0	1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.0	1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0	1
10225	PCB-1254	11097-69-1	7.8		0.40	2.0	1
10225	PCB-1260	11096-82-5	3.0		0.47	2.0	1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0	1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298898
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--006 SDG#: DE163-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,800		5.79	23.0	1
07914	Boron	7440-42-8	5.64	J	1.02	5.76	1
01650	Calcium	7440-70-2	5,700		7.06	23.0	1
01654	Iron	7439-89-6	29,000		5.42	23.0	1
01656	Lithium	7439-93-2	25.0		0.25	2.3	1
01657	Magnesium	7439-95-4	6,230		2.92	11.5	1
06958	Manganese	7439-96-5	410		0.0898	0.576	1
10145	Phosphorus	7723-14-0	357		0.645	11.5	1
01662	Potassium	7440-09-7	4,250		20.7	57.6	1
01667	Sodium	7440-23-5	105	J	43.0	115	1
07968	Strontium	7440-24-6	35.6		0.0714	0.576	1
06969	Tin	7440-31-5	3.06	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,260		0.438	1.15	1
10146	Zirconium	7440-67-7	3.69	J	0.967	5.76	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.359		0.0719	0.240	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	29.4		0.0958	0.479	2
06126	Barium	7440-39-3	133		0.129	0.479	2
06127	Beryllium	7440-41-7	0.750		0.0192	0.120	2
06128	Cadmium	7440-43-9	0.831		0.0479	0.120	2
06131	Chromium	7440-47-3	25.9		0.144	0.479	2
06132	Cobalt	7440-48-4	10.9		0.0240	0.120	2
06133	Copper	7440-50-8	17.0		0.0790	0.479	2
06135	Lead	7439-92-1	17.4		0.0125	0.240	2
06138	Molybdenum	7439-98-7	0.564		0.0599	0.120	2
06139	Nickel	7440-02-0	21.4		0.120	0.479	2
06141	Selenium	7782-49-2	0.170	J	0.0479	0.479	2
06142	Silver	7440-22-4	0.0550	J	0.0144	0.120	2
06145	Thallium	7440-28-0	0.317		0.0359	0.120	2
06148	Vanadium	7440-62-2	49.0		0.0263	0.120	2
06149	Zinc	7440-66-6	187		0.671	3.59	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.96	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.24	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298898
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--006 SDG#: DE163-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 15:57	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 12:24	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 04:19	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 09:11	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 11:26	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298898
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--006 SDG#: DE163-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:46	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 05:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 05:00	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 05:00	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 05:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 19:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/11/2011 15:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11151243201A	06/03/2011 20:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039402B	06/01/2011 22:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298899
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--060 SDG#: DE163-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298899
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--060 SDG#: DE163-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0	5
10138	Anthracene	120-12-7	2.0	J	1.8	9.0	5
10138	Benzo(a)anthracene	56-55-3	14		3.6	9.0	5
10138	Benzo(a)pyrene	50-32-8	31		3.6	9.0	5
10138	Benzo(b)fluoranthene	205-99-2	45		3.6	9.0	5
10138	Benzo(g,h,i)perylene	191-24-2	13		3.6	9.0	5
10138	Benzo(k)fluoranthene	207-08-9	27		3.6	9.0	5
10138	Chrysene	218-01-9	21		1.8	9.0	5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.6	9.0	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	57	J	32	97	5
10138	Fluoranthene	206-44-0	21		3.6	9.0	5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	8.1	J	3.6	9.0	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0	5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0	5
10138	Phenanthrene	85-01-8	9.3		3.6	9.0	5
10138	Pyrene	129-00-0	20		3.6	9.0	5

Reporting limits were raised due to interference from the sample matrix.

The recoveries of benzo(b)fluoranthene and benzo(a)pyrene were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and several compounds were above QC limits in the LCS. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	600		82	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298899
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

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14420 Albemarle Point Place
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--060 SDG#: DE163-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.068	J	0.037	0.18	1
01363	Chlordane	57-74-9	5.3		0.86	3.7	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	0.63	U	0.63	0.63	1
01363	p,p-DDT	50-29-3	2.2	U	2.2	2.2	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.16	U	0.16	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.73	U	0.73	0.73	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	1.9	U	1.9	1.9	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.1	2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.1	2
10225	Aroclor 5460	11126-42-4	2.2	U	2.2	7.1	2
10225	PCB-1016	12674-11-2	0.71	U	0.71	3.7	2
10225	PCB-1221	11104-28-2	0.71	U	0.71	3.7	2
10225	PCB-1232	11141-16-5	0.71	U	0.71	3.7	2
10225	PCB-1242	53469-21-9	0.71	U	0.71	3.7	2
10225	PCB-1248	12672-29-6	0.71	U	0.71	3.7	2
10225	PCB-1254	11097-69-1	0.71	U	0.71	3.7	2
10225	PCB-1260	11096-82-5	4.5		0.84	3.7	2
10225	PCB-1262	37324-23-5	0.71	U	0.71	3.7	2
10225	PCB-1268	11100-14-4	0.71	U	0.71	3.7	2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		5.27	21.0	1
07914	Boron	7440-42-8	5.66		0.933	5.24	1
01650	Calcium	7440-70-2	5,970		6.43	21.0	1
01654	Iron	7439-89-6	28,800		24.7	105	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298899
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

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CDM Federal Programs Corp.
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Suite 210
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--060 SDG#: DE163-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	22.3		0.23	2.1	1
01657	Magnesium	7439-95-4	6,870		2.66	10.5	1
06958	Manganese	7439-96-5	436		0.0818	0.524	1
10145	Phosphorus	7723-14-0	613		0.587	10.5	1
01662	Potassium	7440-09-7	5,590		18.9	52.4	1
01667	Sodium	7440-23-5	128		39.1	105	1
07968	Strontium	7440-24-6	33.4		0.0650	0.524	1
06969	Tin	7440-31-5	2.47	J	1.05	10.5	1
06970	Titanium	7440-32-6	1,360		0.398	1.05	1
10146	Zirconium	7440-67-7	3.13	J	0.881	5.24	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0788	J	0.0648	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.76		0.0864	0.432	2
06126	Barium	7440-39-3	134		0.117	0.432	2
06127	Beryllium	7440-41-7	0.598		0.0173	0.108	2
06128	Cadmium	7440-43-9	0.361		0.0432	0.108	2
06131	Chromium	7440-47-3	22.8		0.130	0.432	2
06132	Cobalt	7440-48-4	9.07		0.0216	0.108	2
06133	Copper	7440-50-8	16.9		0.0713	0.432	2
06135	Lead	7439-92-1	11.8		0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.430		0.0540	0.108	2
06139	Nickel	7440-02-0	17.5		0.108	0.432	2
06141	Selenium	7782-49-2	0.130	J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0564	J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.275		0.0324	0.108	2
06148	Vanadium	7440-62-2	47.2		0.0238	0.108	2
06149	Zinc	7440-66-6	88.5		0.605	3.24	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0150	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.78		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298899
LLI Group # 1248708
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

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--060 SDG#: DE163-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/06/2011 15:10	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 12:57	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 04:46	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 09:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 11:45	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 13:18	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:50	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 05:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298899
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--060 SDG#: DE163-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 05:03	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 05:03	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 05:03	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 19:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 20:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11151243201A	06/03/2011 20:39	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039403A	06/01/2011 23:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298900
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--190 SDG#: DE163-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298900
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--190 SDG#: DE163-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	6.6		0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	8.9	J	7.1	21	1
10138	Chrysene	218-01-9	1.7	J	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	7.1	21	1
10138	Fluoranthene	206-44-0	2.3		0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.98	J	0.79	2.0	1
10138	Naphthalene	91-20-3	1.4	J	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	1.6	J	0.79	2.0	1
10138	Pyrene	129-00-0	1.8	J	0.79	2.0	1

The recoveries of benzo(b)fluoranthene and benzo(a)pyrene were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and several compounds were above QC limits in the LCS. Comparable data was observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.3	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	2.5	U	2.5	2.5	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.95	U	0.95	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.95	U	0.95	2.0	1
10401	MCPA	94-74-6	90	U	90	300	1
10401	MCPP (Mecoprop)	93-65-2	89	U	89	300	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.089	U	0.089	0.20	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298900
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--190 SDG#: DE163-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	2.4	J	0.95	4.0	1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.40	1
01363	p,p-DDE	72-55-9	0.89		0.078	0.40	1
01363	p,p-DDT	50-29-3	0.60	U	0.60	0.60	1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.15	U	0.15	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.24	U	0.24	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	1.7	J	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,000		5.67	22.5	1
07914	Boron	7440-42-8	12.0		1.00	5.64	1
01650	Calcium	7440-70-2	40,400		6.91	22.5	1
01654	Iron	7439-89-6	32,800		26.5	113	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298900
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--190 SDG#: DE163-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	26.4		0.25	2.3	1
01657	Magnesium	7439-95-4	8,100		2.86	11.3	1
06958	Manganese	7439-96-5	492		0.0879	0.564	1
10145	Phosphorus	7723-14-0	709		0.631	11.3	1
01662	Potassium	7440-09-7	7,720		20.3	56.4	1
01667	Sodium	7440-23-5	96.6	J	42.0	113	1
07968	Strontium	7440-24-6	77.1		0.0699	0.564	1
06969	Tin	7440-31-5	2.58	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,320		0.428	1.13	1
10146	Zirconium	7440-67-7	3.82	J	0.947	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0689	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.46		0.0919	0.460	2
06126	Barium	7440-39-3	118		0.124	0.460	2
06127	Beryllium	7440-41-7	0.773		0.0184	0.115	2
06128	Cadmium	7440-43-9	0.420		0.0460	0.115	2
06131	Chromium	7440-47-3	30.3		0.138	0.460	2
06132	Cobalt	7440-48-4	10.7		0.0230	0.115	2
06133	Copper	7440-50-8	18.4		0.0758	0.460	2
06135	Lead	7439-92-1	13.1		0.0119	0.230	2
06138	Molybdenum	7439-98-7	0.432		0.0574	0.115	2
06139	Nickel	7440-02-0	21.3		0.115	0.460	2
06141	Selenium	7782-49-2	0.295	J	0.0460	0.460	2
06142	Silver	7440-22-4	0.0303	J	0.0138	0.115	2
06145	Thallium	7440-28-0	0.366		0.0345	0.115	2
06148	Vanadium	7440-62-2	57.9		0.0253	0.115	2
06149	Zinc	7440-66-6	81.9		0.643	3.45	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0176	J	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	J	0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.24	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.90		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298900
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--190 SDG#: DE163-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/04/2011 16:49	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 13:29	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 05:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 11:18	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 12:03	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/06/2011 13:22	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:54	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 05:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298900
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--190 SDG#: DE163-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 05:06	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 05:06	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 05:06	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202A	06/02/2011 20:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202A	06/10/2011 21:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11151243201A	06/03/2011 20:50	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202A	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202A	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039403A	06/01/2011 23:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298901
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--199 SDG#: DE163-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	45	J	18	370	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298901
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--199 SDG#: DE163-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.2		0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.1		0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	7.7		0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	6.7		0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	4.7		0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Fluoranthene	206-44-0	5.5		0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.97	J	0.73	1.8	1
10138	Naphthalene	91-20-3	1.3	J	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20	1
10138	Phenanthrene	85-01-8	2.7		0.73	1.8	1
10138	Pyrene	129-00-0	4.6		0.73	1.8	1

The recoveries of benzo(b)fluoranthene and benzo(a)pyrene were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and several compounds were above QC limits in the LCS. Comparable data was observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0	1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9	1
10401	2,4-DB	94-82-6	19	U	19	19	1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3	1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.4		0.88	1.9	1
10401	MCPA	94-74-6	84	U	84	270	1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270	1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19	1
10401	2,4,5-TP	93-72-1	0.17	J	0.082	0.19	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298901
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--199 SDG#: DE163-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	9.3		0.88	3.7	1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37	1
01363	p,p-DDE	72-55-9	2.7	U	2.7	2.7	1
01363	p,p-DDT	50-29-3	4.7		0.36	1.9	5
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18	1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.58	U	0.58	0.58	1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37	1
01363	Endrin	72-20-8	0.48	U	0.48	0.48	1
01363	Endrin Aldehyde	7421-93-4	0.79	U	0.79	0.79	1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37	1
01363	Heptachlor	76-44-8	0.18	U	0.18	0.18	1
01363	Heptachlor Epoxide	1024-57-3	4.3	U	4.3	4.3	5
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3	1
	The LCS recovery for p,p-DDT is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18	5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18	5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18	5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3	5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3	5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3	5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3	5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3	5
10225	PCB-1254	11097-69-1	75		1.8	9.3	5
10225	PCB-1260	11096-82-5	2.1	U	2.1	9.3	5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3	5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298901
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--199 SDG#: DE163-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,900		5.47	21.8	1
07914	Boron	7440-42-8	4.28	J	0.968	5.44	1
01650	Calcium	7440-70-2	3,790		6.67	21.8	1
01654	Iron	7439-89-6	24,300		5.12	21.8	1
01656	Lithium	7439-93-2	22.9		0.24	2.2	1
01657	Magnesium	7439-95-4	5,190		2.76	10.9	1
06958	Manganese	7439-96-5	393		0.0849	0.544	1
10145	Phosphorus	7723-14-0	523		0.609	10.9	1
01662	Potassium	7440-09-7	5,420		19.6	54.4	1
01667	Sodium	7440-23-5	67.2	J	40.6	109	1
07968	Strontium	7440-24-6	25.5		0.0675	0.544	1
06969	Tin	7440-31-5	2.55	J	1.09	10.9	1
06970	Titanium	7440-32-6	1,180		0.413	1.09	1
10146	Zirconium	7440-67-7	2.47	J	0.914	5.44	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0653	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.75		0.0870	0.435	2
06126	Barium	7440-39-3	112		0.118	0.435	2
06127	Beryllium	7440-41-7	0.551		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.440		0.0435	0.109	2
06131	Chromium	7440-47-3	18.8		0.131	0.435	2
06132	Cobalt	7440-48-4	6.68		0.0218	0.109	2
06133	Copper	7440-50-8	12.6		0.0718	0.435	2
06135	Lead	7439-92-1	13.7		0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.598		0.0544	0.109	2
06139	Nickel	7440-02-0	14.5		0.109	0.435	2
06141	Selenium	7782-49-2	0.150	J	0.0435	0.435	2
06142	Silver	7440-22-4	0.127		0.0131	0.109	2
06145	Thallium	7440-28-0	0.272		0.0326	0.109	2
06148	Vanadium	7440-62-2	34.4		0.0239	0.109	2
06149	Zinc	7440-66-6	66.4		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0500	J	0.0030	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.75	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298901
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--199 SDG#: DE163-11*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.39	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLE026	06/06/2011 15:36	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11148SLB026	06/03/2011 14:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11148SLB026	05/31/2011 07:15	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLE026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111550004A	06/08/2011 05:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/11/2011 11:47	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111520009A	06/16/2011 08:33	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510014A	06/07/2011 12:22	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111520009A	06/01/2011 16:25	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510014A	05/31/2011 18:05	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111550004A	06/06/2011 00:10	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
07914	Boron	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
01654	Iron	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
06969	Tin	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298901
LLI Group # 1248708
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 07/01/2011 16:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--199 SDG#: DE163-11*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111525708002	06/03/2011 21:59	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06126	Barium	SW-846 6020	1	111571026004D	06/08/2011 05:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06133	Copper	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06135	Lead	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026004C	06/08/2011 05:09	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026004B	06/08/2011 05:09	David K Beck	2
06142	Silver	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026004A	06/08/2011 05:09	David K Beck	2
00159	Mercury	SW-846 7471A	1	111525711002	06/01/2011 20:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111525708002	06/01/2011 12:12	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026004	06/06/2011 12:32	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111525711002	06/01/2011 14:07	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11152621202B	06/02/2011 20:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154621202B	06/10/2011 21:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11151243201A	06/03/2011 13:39	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11152621202B	06/01/2011 06:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154621202B	06/03/2011 08:05	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11152039403A	06/01/2011 23:15	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11151243201A	05/31/2011 20:05	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11148SLB026	Sample number(s): 6298888-6298890,6298892-6298901									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	105		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	102		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	108		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	109		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	134*		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	144*		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	125		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	139		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	118		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	120		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	106		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	137		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	116		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	114		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	113		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	111		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	132		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	110		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	100		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	104		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	112		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	142		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	105		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		56-121		
Batch number: 11152SLE026	Sample number(s): 6298888-6298890,6298892-6298901									
Acenaphthene	17	U	17.	170	ug/kg	96		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	101		75-122		
Aniline	170 U		170.	500	ug/kg	68		34-94		
Anthracene	17	U	17.	170	ug/kg	100		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	42		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	94		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	92		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	92		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	86		67-125		
Benzoic acid	170 U		170.	500	ug/kg	105		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	114		75-115		
Di-n-butylphthalate	19	J	17.	170	ug/kg	102		79-112		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbazole	17	U	17.	170	ug/kg	100		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	48		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		79-110		
Chrysene	17	U	17.	170	ug/kg	100		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	95		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	101		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	46		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	25	J	17.	170	ug/kg	103		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	86		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	83		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	19	J	17.	330	ug/kg	118*		75-117		
Fluoranthene	17	U	17.	170	ug/kg	100		78-116		
Fluorene	17	U	17.	170	ug/kg	101		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	105		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	98		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	97		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	90		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	98		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	87		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	98		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	104		78-111		
Batch number: 111550004A	Sample number(s): 6298888-6298890,6298892-6298901									
2,4-D	1.2	U	1.2	3.6	ug/kg	98		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	103		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	55		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	30		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	116		62-170		
MCPA	76	U	76.	250	ug/kg	84		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	79		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	96		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		68-114		
Batch number: 111510014A	Sample number(s): 6298888-6298890,6298892-6298901									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	89	81	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	109		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111520009A	Sample number(s): 6298888-6298890,6298892-6298901									
Aldrin	0.066	U	0.066	0.17	ug/kg	91		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	107		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	122		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	122		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	118		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	108		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	138*		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	116		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	114		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	82		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	120		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	127		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	98		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	105		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	113		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	106		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111525708002	Sample number(s): 6298888-6298901									
Aluminum	5.03	U	5.03	20.0	mg/kg	95		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	96		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	9.57	J	6.13	20.0	mg/kg	96		88-110		
Iron	5.37	J	4.71	20.0	mg/kg	82		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	94		82-110		
Manganese	0.0960	J	0.0780	0.500	mg/kg	99		89-112		
Phosphorus	1.57	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	91		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.58	J	1.00	10.0	mg/kg	93		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	85		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 111525711002	Sample number(s): 6298888-6298901									
Mercury	0.0028	U	0.0028	0.0981	mg/kg	99		88-123		
Batch number: 111571026004A	Sample number(s): 6298888-6298901									
Antimony	0.0594	U	0.0594	0.198	mg/kg	69		27-181		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	104		83-113		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	108		86-111		
Cadmium	0.0396	U	0.0396	0.0990	mg/kg	106		82-118		
Chromium	0.119	U	0.119	0.396	mg/kg	104		80-120		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	106		82-118		
Copper	0.223	J	0.0653	0.396	mg/kg	102		83-110		
Lead	0.0137	J	0.0103	0.198	mg/kg	100		83-110		
Nickel	0.117	J	0.0990	0.396	mg/kg	106		81-110		
Silver	0.0119	U	0.0119	0.0990	mg/kg	104		81-111		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	101		83-110		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	96		84-116		
Zinc	0.554	U	0.554	2.97	mg/kg	103		81-112		
Batch number: 111571026004B	Sample number(s): 6298888-6298901									
Selenium	0.0396	U	0.0396	0.396	mg/kg	108		83-111		
Batch number: 111571026004C	Sample number(s): 6298888-6298901									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	107		78-122		
Batch number: 111571026004D	Sample number(s): 6298888-6298901									
Barium	0.107	U	0.107	0.396	mg/kg	107		81-111		
Batch number: 11151243201A	Sample number(s): 6298888-6298889,6298891-6298901									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11152621202A	Sample number(s): 6298888-6298889,6298891-6298900									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 11152621202B	Sample number(s): 6298901									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
Batch number: 11154621202A	Sample number(s): 6298888-6298889,6298891-6298900									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	103		85-115		
Batch number: 11154621202B	Sample number(s): 6298901									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	103		85-115		
Batch number: 11152039402B	Sample number(s): 6298892-6298898									
18a pH by 9045C						100		95-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11152039403A	Sample number(s): 6298888,6298891,6298899-6298901								
18a pH by 9045C					100		95-105		
Batch number: 11157162401A	Sample number(s): 6298888-6298901								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11148SLB026	Sample number(s): 6298888-6298890,6298892-6298901 UNSPK: 6298888								
Acenaphthene	100	89	63-105	11	30				
Acenaphthylene	95	86	67-114	9	30				
Anthracene	101	93	60-122	8	30				
Benzo(a)anthracene	88	82	59-128	5	30				
Benzo(a)pyrene	111	103	45-138	6	30				
Benzo(b)fluoranthene	110	107	43-155	2	30				
Benzo(g,h,i)perylene	76	66	33-141	13	30				
Benzo(k)fluoranthene	111	102	42-144	8	30				
Butylbenzylphthalate	109	100	57-173	9	30				
Di-n-butylphthalate	116	101	65-148	13	30				
Chrysene	87	79	48-134	8	30				
Dibenz(a,h)anthracene	112	100	22-133	11	30				
Diethylphthalate	101	91	70-136	10	30				
Dimethylphthalate	105	95	74-118	10	30				
Bis(2-Ethylhexyl)phthalate	147	114	39-167	25	30				
Fluoranthene	91	79	26-166	10	30				
Fluorene	101	92	66-122	9	30				
Indeno(1,2,3-cd)pyrene	115	102	21-143	12	30				
1-Methylnaphthalene	103	93	72-123	10	30				
2-Methylnaphthalene	94	85	64-103	10	30				
Naphthalene	98	90	61-102	8	30				
N-Nitrosodimethylamine	105	96	48-113	9	30				
Di-n-octylphthalate	131	129	40-192	2	30				
Phenanthrene	89	82	12-165	8	30				
Pyrene	73	63	15-153	10	30				
Batch number: 11152SLE026	Sample number(s): 6298888-6298890,6298892-6298901 UNSPK: 6298888								
Acenaphthene	101	97	75-115	5	30				
Acenaphthylene	103	100	81-110	4	30				
Aniline	69	69	35-95	1	30				
Anthracene	102	100	75-115	2	30				
Benzidine	22*	0*	35-141	200*	30				
Benzo(a)anthracene	100	101	65-122	1	30				
Benzo(a)pyrene	95	92	57-126	4	30				
Benzo(b)fluoranthene	94	88	59-125	7	30				
Benzo(g,h,i)perylene	90	85	59-127	6	30				
Benzo(k)fluoranthene	91	87	56-132	4	30				
Benzoic acid	56	88	10-173	44*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzyl alcohol	103	95	67-115	8	30				
4-Bromophenyl-phenylether	99	98	67-129	1	30				
Butylbenzylphthalate	107	105	73-134	2	30				
Di-n-butylphthalate	102	98	67-123	4	30				
Carbazole	101	100	64-120	1	30				
4-Chloro-3-methylphenol	102	101	76-110	1	30				
4-Chloroaniline	74	71	23-95	4	30				
bis(2-Chloroethoxy)methane	97	96	75-104	2	30				
bis(2-Chloroethyl)ether	100	93	60-116	7	30				
bis(2-Chloroisopropyl)ether	103	96	55-142	7	30				
2-Chloronaphthalene	78	74	50-141	6	30				
2-Chlorophenol	100	95	73-121	5	30				
4-Chlorophenyl-phenylether	103	99	80-109	4	30				
Chrysene	97	99	62-128	2	30				
Dibenz(a,h)anthracene	90	88	65-125	3	30				
Dibenzofuran	103	99	71-112	3	30				
1,2-Dichlorobenzene	93	87	66-108	7	30				
1,3-Dichlorobenzene	94	87	63-109	8	30				
1,4-Dichlorobenzene	94	87	70-100	7	30				
3,3'-Dichlorobenzidine	71	72	16-119	2	30				
2,4-Dichlorophenol	101	100	78-117	1	30				
Diethylphthalate	103	99	66-118	4	30				
2,4-Dimethylphenol	98	93	78-110	6	30				
3,5-Dimethylphenol	105	102	70-130	3	30				
Dimethylphthalate	100	96	64-118	4	30				
4,6-Dinitro-2-methylphenol	50	77	24-116	43*	30				
2,4-Dinitrophenol	27	57	20-143	72*	30				
2,4-Dinitrotoluene	104	102	73-113	2	30				
2,6-Dinitrotoluene	102	99	69-123	3	30				
1,2-Diphenylhydrazine	102	101	71-129	1	30				
bis(2-Ethylhexyl)phthalate	112	113	63-122	1	30				
Fluoranthene	98	95	73-112	3	30				
Fluorene	106	100	77-111	7	30				
Hexachlorobenzene	104	100	77-114	4	30				
Hexachlorobutadiene	94	91	62-120	3	30				
Hexachlorocyclopentadiene	76	70	10-153	8	30				
Hexachloroethane	90	85	57-109	6	30				
Indeno(1,2,3-cd)pyrene	95	89	61-126	7	30				
Isophorone	104*	98	73-102	6	30				
1-Methylnaphthalene	103	99	73-112	4	30				
2-Methylnaphthalene	97	94	76-114	4	30				
2-Methylphenol	100	93	75-111	7	30				
4-Methylphenol	102	97	71-111	5	30				
Naphthalene	96	95	72-116	1	30				
2-Nitroaniline	103	103	67-125	0	30				
3-Nitroaniline	102	96	59-122	6	30				
4-Nitroaniline	77	87	52-112	13	30				
Nitrobenzene	99	95	72-106	4	30				
2-Nitrophenol	100	99	74-115	1	30				
4-Nitrophenol	92	89	54-113	3	30				
N-Nitroso-di-n-propylamine	103	94	60-116	9	30				
N-Nitrosodimethylamine	94	87	47-116	7	30				
N-Nitrosodiphenylamine	98	98	86-145	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	98	93	56-126	5	30				
Pentachlorophenol	90	92	28-127	2	30				
Phenanthrene	98	97	65-125	1	30				
Phenol	101	95	58-126	6	30				
Pyrene	97	93	74-126	5	30				
1,2,4-Trichlorobenzene	99	95	72-115	4	30				
2,4,5-Trichlorophenol	105	101	78-109	4	30				
2,4,6-Trichlorophenol	104	103	77-115	1	30				
Batch number: 111550004A	Sample number(s): 6298888-6298890,6298892-6298901 UNSPK: 6298888								
2,4-D	71	54	17-180	27	35				
Dalapon	43	47	10-125	8	50				
2,4-DB	47	29	10-201	47	50				
Dicamba	63	66	10-190	6	50				
Dinoseb	12	10	10-46	13	35				
2,4-DP (Dichlorprop)	90	106	33-178	16	50				
MCPA	71	84	10-213	17	50				
MCPP (Mecoprop)	57	70	10-184	21	50				
2,4,5-T	43	57	10-156	27	35				
2,4,5-TP	43	61	24-141	25	35				
Batch number: 111510014A	Sample number(s): 6298888-6298890,6298892-6298901 UNSPK: 6298888								
PCB-1016	89	90	29-146	2	50				
PCB-1260	92	85	39-149	7	50				
Batch number: 111520009A	Sample number(s): 6298888-6298890,6298892-6298901 UNSPK: 6298888								
Aldrin	85	85	16-126	0	50				
Alpha BHC	98	93	10-129	5	50				
Beta BHC	103	97	14-147	6	50				
Gamma BHC - Lindane	111	105	10-140	5	50				
p,p-DDD	72	67	16-163	7	50				
p,p-DDE	77	74	18-161	4	50				
p,p-DDT	168	164	10-176	2	50				
Delta BHC	103	100	23-140	3	50				
Dieldrin	60	59	19-154	2	50				
Endosulfan I	85	85	16-137	0	50				
Endosulfan II	68	77	28-154	13	50				
Endosulfan Sulfate	62	57	21-160	8	50				
Endrin	105	109	11-149	3	50				
Endrin Aldehyde	111	115	10-148	4	35				
Endrin Ketone	89	92	22-165	3	50				
Heptachlor	102	102	13-126	0	50				
Heptachlor Epoxide	94	91	13-157	3	50				
Methoxychlor	126	125	32-147	0	50				
Batch number: 111525708002	Sample number(s): 6298888-6298901 UNSPK: 6298888 BKG: 6298888								
Aluminum	2233 (2)	2991 (2)	75-125	4	20	28,800	28,300	2	20
Boron	101	100	84-115	2	20	7.39	8.38	13 (1)	20
Calcium	83 (2)	136 (2)	75-125	3	20	6,000	8,210	31*	20
Iron	4402 (2)	1420 (2)	75-125	9	20	30,100	30,200	0	20
Lithium	102	103	82-114	0	20	24.6	23.8	3	20

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	95 (2)	251 (2)	75-125	4	20	7,270	6,490	11	20
Manganese	36 (2)	118 (2)	75-125	9	20	413	473	13	20
Phosphorus	61 (2)	48 (2)	75-125	3	20	453	1,490	107*	20
Potassium	116 (2)	122 (2)	75-125	1	20	4,650	4,390	6	20
Sodium	94	97	75-125	0	20	90.3 J	131	37* (1)	20
Strontium	98	99	75-115	1	20	31.4	48.7	43*	20
Tin	83	84	80-110	2	20	2.36 J	2.25 J	5 (1)	20
Titanium	213 (2)	238 (2)	75-125	1	20	1,280	1,140	12	20
Zirconium	94	95	75-125	1	20	3.48 J	4.83 J	32* (1)	20
Batch number: 111525711002	Sample number(s): 6298888-6298901 UNSPK: 6298888 BKG: 6298888								
Mercury	136*	100	65-135	28*	20	0.0160 J	0.0490 J	101* (1)	20
Batch number: 111571026004A	Sample number(s): 6298888-6298901 UNSPK: 6298888 BKG: 6298888								
Antimony	29*	28*	75-125	2	20	0.0859 J	0.0817 J	5 (1)	20
Arsenic	138*	121	75-125	4	20	4.92	5.46	10	20
Beryllium	93	92	75-125	0	20	0.643	0.713	10	20
Cadmium	110	109	75-125	1	20	0.272	0.313	14 (1)	20
Chromium	102	110	75-125	2	20	23.7	25.7	8	20
Cobalt	101	99	75-125	2	20	9.29	9.68	4	20
Copper	52*	43*	75-125	4	20	19.7	15.2	26*	20
Lead	145*	106	75-125	8	20	11.3	10.3	9	20
Nickel	126*	122	75-125	1	20	17.8	20.3	13	20
Silver	98	98	75-125	0	20	0.0361 J	0.0424 J	16 (1)	20
Thallium	100	90	75-125	6	20	0.296	0.313	6 (1)	20
Vanadium	139 (2)	146 (2)	75-125	1	20	45.4	49.5	9	20
Zinc	172 (2)	172 (2)	75-125	0	20	60.4	66.3	9	20
Batch number: 111571026004B	Sample number(s): 6298888-6298901 UNSPK: 6298888 BKG: 6298888								
Selenium	96	95	75-125	1	20	0.116 J	0.112 J	3 (1)	20
Batch number: 111571026004C	Sample number(s): 6298888-6298901 UNSPK: 6298888 BKG: 6298888								
Molybdenum	87	88	75-125	1	20	0.285	0.274	4 (1)	20
Batch number: 111571026004D	Sample number(s): 6298888-6298901 UNSPK: 6298888 BKG: 6298888								
Barium	258 (2)	223 (2)	75-125	3	20	106	116	9	20
Batch number: 11151243201A	Sample number(s): 6298888-6298889,6298891-6298901 UNSPK: 6298888 BKG: 6298888								
3a Cr VI by EPA 7199	97		75-125			0.82 J	0.62 J	29* (1)	20
Batch number: 11152621202A	Sample number(s): 6298888-6298889,6298891-6298900 UNSPK: 6298888 BKG: 6298888								
11a Anions by 300.0 - Fluoride	47*		80-120			2.1	1.9	13 (1)	20
Batch number: 11152621202B	Sample number(s): 6298901 UNSPK: 6298901 BKG: 6298901								
11a Anions by 300.0 - Fluoride	50*		80-120			1.1	0.80 U	200* (1)	20
Batch number: 11154621202A	Sample number(s): 6298888-6298889,6298891-6298900 UNSPK: 6298888 BKG: 6298888								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11154621202B	Sample number(s): 6298901 UNSPK: 6298901 BKG: 6298901								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11152039402B	Sample number(s): 6298892-6298898 BKG: P298877								

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Quality Control Summary

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Reported: 07/01/11 at 04:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
18a pH by 9045C						6.64	6.66	0	3
Batch number: 11152039403A	Sample number(s): 6298888,6298891,6298899-6298901					BKG: 6298888			
18a pH by 9045C						7.28	7.31	0	3
Batch number: 11157162401A	Sample number(s): 6298888-6298901					BKG: 6298888			
28a Moisture Content by 160.3						13.4	13.5	1	20
Moisture Content by 160.3						13.4	13.5	1	20
Moisture Content by 160.3						13.4	13.5	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11148SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6298888	115	106	101
6298889	106	96	92
6298890	99	88	84
6298892	86	80	88
6298893	91	83	90
6298894	100	88	93
6298895	98	89	93
6298896	99	87	88
6298897	103	91	96
6298898	97	84	88
6298899	104	90	94
6298900	119	102	108
6298901	121	102	107
Blank	121	110	125
LCS	117	104	105
MS	106	96	92
MSD	99	88	84
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11152SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6298888	84	81	101	86	89	84
6298889	94	92	103	89	93	83
6298890	86	86	98	87	89	79
6298892	88	87	92	85	90	80
6298893	86	83	88	82	85	79
6298894	90	89	90	83	87	76
6298895	89	88	90	86	89	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Surrogate Quality Control

6298896	84	84	88	81	83	80
6298897	86	87	87	85	84	77
6298898	87	87	89	83	83	77
6298899	84	83	80	80	80	71
6298900	85	84	93	85	89	78
6298901	93	91	96	88	90	82
Blank	86	85	93	83	89	80
LCS	87	86	98	84	87	84
MS	94	92	103	89	93	83
MSD	86	86	98	87	89	79
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111510014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6298888	105	90
6298889	117	96
6298890	111	90
6298892	122	102
6298893	116	102
6298894	116	103
6298895	112	63
6298896	100	102
6298897	63	54
6298898	69	85
6298899	73	62
6298900	115	99
6298901	114	111
Blank	125	116
LCS	124	116
LCSD	112	103
MS	117	96
MSD	111	90
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 111520009A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6298888	82	100
6298889	94	111
6298890	89	61
6298892	87	87
6298893	43*	30
6298894	84	62
6298895	103	93
6298896	64	84
6298897	61	87
6298898	47*	83
6298899	96	172*
6298900	66	41
6298901	120	109
Blank	93	107
LCS	95	110
MS	94	111

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248708
Reported: 07/01/11 at 04:07 PM

Surrogate Quality Control

MSD	89	61
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111550004A

	2,4-Dichlorophenylacetic acid
6298888	92
6298889	95
6298890	89
6298892	94
6298893	89
6298894	106
6298895	109
6298896	94
6298897	68
6298898	110
6298899	76
6298900	78
6298901	63
Blank	87
LCS	86
MS	95
MSD	89
Limits:	36-156

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1248708 6298888-901

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X										MS/MSD
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-SS sleeve			X	X																	
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-SS sleeve			X	X																	
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X										
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X										
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	1-SS sleeve			X	X																	
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-SS sleeve			X	X																	
SL-005-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-005-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X										
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-SS sleeve			X	X																	
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-SS sleeve			X	X																	
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-SS sleeve			X	X																	
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X										MS/MSD
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-SS sleeve			X	X																	
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/25/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 5/26/11 1022	Airbill No.(s) 8695 1442 0913,0924,0935,0946,0957	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/26/2011
Group Number: 1248709
SDG: DX090
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-057-SA5DN-SS-0.0-0.5 Soil	6298902
SL-057-SA5DN-SS-0.0-0.5MS Soil	6298903
SL-057-SA5DN-SS-0.0-0.5MSD Soil	6298904
SL-185-SA5DN-SS-0.0-0.5 Soil	6298905
DUP06-SA5DN-QC-052411 Soil	6298906
SL-001-SA5DN-SS-0.0-0.5 Soil	6298907
SL-002-SA5DN-SS-0.0-0.5 Soil	6298908
SL-004-SA5DN-SS-0.0-0.5 Soil	6298909
SL-005-SA5DN-SS-0.0-0.5 Soil	6298910
SL-006-SA5DN-SS-0.0-0.5 Soil	6298911
SL-060-SA5DN-SS-0.0-0.5 Soil	6298912
SL-190-SA5DN-SS-0.0-0.5 Soil	6298913
SL-199-SA5DN-SS-0.0-0.5 Soil	6298914

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298902
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298902
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0233	U	0.0233	1.13	1
11031	12378-PeCDD	40321-76-4	0.126	J	0.0291	5.67	1
11031	123478-HxCDD	39227-28-6	0.123	JB	0.0293	5.67	1
11031	123678-HxCDD	57653-85-7	0.382	JB	0.0299	5.67	1
11031	123789-HxCDD	19408-74-3	0.404	JB	0.0292	5.67	1
11031	1234678-HpCDD	35822-46-9	4.90	JB	0.0357	5.67	1
11031	OCDD	3268-87-9	44.8	B	0.0301	11.3	1
11031	2378-TCDF	51207-31-9	0.0807	J	0.0388	1.13	1
11031	12378-PeCDF	57117-41-6	0.152	JBQ	0.0230	5.67	1
11031	23478-PeCDF	57117-31-4	0.164	JBQ	0.0223	5.67	1
11031	123478-HxCDF	70648-26-9	0.333	JB	0.0293	5.67	1
11031	123678-HxCDF	57117-44-9	0.151	JB	0.0254	5.67	1
11031	123789-HxCDF	72918-21-9	0.282	JB	0.0239	5.67	1
11031	234678-HxCDF	60851-34-5	0.159	JB	0.0210	5.67	1
11031	1234678-HpCDF	67562-39-4	0.876	JB	0.0177	5.67	1
11031	1234789-HpCDF	55673-89-7	0.106	JB	0.0203	5.67	1
11031	OCDF	39001-02-0	1.59	JB	0.0304	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-057-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298902
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298902
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/10/2011 13:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298903
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298903
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.6		0.0279	1.13	1
11031	12378-PeCDD	40321-76-4	105		0.0344	5.64	1
11031	123478-HxCDD	39227-28-6	105	B	0.0426	5.64	1
11031	123678-HxCDD	57653-85-7	110	B	0.0448	5.64	1
11031	123789-HxCDD	19408-74-3	108	B	0.0409	5.64	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0490	5.64	1
11031	OCDD	3268-87-9	252	B	0.0484	11.3	1
11031	2378-TCDF	51207-31-9	20.7		0.0440	1.13	1
11031	12378-PeCDF	57117-41-6	110	B	0.0289	5.64	1
11031	23478-PeCDF	57117-31-4	111	B	0.0286	5.64	1
11031	123478-HxCDF	70648-26-9	110	B	0.0614	5.64	1
11031	123678-HxCDF	57117-44-9	108	B	0.0542	5.64	1
11031	123789-HxCDF	72918-21-9	110	B	0.0581	5.64	1
11031	234678-HxCDF	60851-34-5	110	B	0.0483	5.64	1
11031	1234678-HpCDF	67562-39-4	110	B	0.0498	5.64	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0585	5.64	1
11031	OCDF	39001-02-0	223	B	0.0468	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298903
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298903
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/10/2011 14:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298904
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298904
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
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Chantilly VA 20151

X057- SDG#: DX090-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.2		0.0300	1.14	1
11031	12378-PeCDD	40321-76-4	106		0.0398	5.68	1
11031	123478-HxCDD	39227-28-6	107	B	0.0378	5.68	1
11031	123678-HxCDD	57653-85-7	111	B	0.0412	5.68	1
11031	123789-HxCDD	19408-74-3	110	B	0.0401	5.68	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0469	5.68	1
11031	OCDD	3268-87-9	255	B	0.0455	11.4	1
11031	2378-TCDF	51207-31-9	21.4		0.0379	1.14	1
11031	12378-PeCDF	57117-41-6	113	B	0.0300	5.68	1
11031	23478-PeCDF	57117-31-4	112	B	0.0279	5.68	1
11031	123478-HxCDF	70648-26-9	114	B	0.0589	5.68	1
11031	123678-HxCDF	57117-44-9	110	B	0.0532	5.68	1
11031	123789-HxCDF	72918-21-9	112	B	0.0531	5.68	1
11031	234678-HxCDF	60851-34-5	111	B	0.0455	5.68	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0404	5.68	1
11031	1234789-HpCDF	55673-89-7	111	B	0.0478	5.68	1
11031	OCDF	39001-02-0	228	B	0.0469	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-057-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298904
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-057-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298904
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:48

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X057- SDG#: DX090-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/10/2011 15:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298905
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:27

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X185- SDG#: DX090-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298905
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:27

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X185- SDG#: DX090-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0200	U	0.0200	1.10	1
11031	12378-PeCDD	40321-76-4	0.0480	JQ	0.0287	5.49	1
11031	123478-HxCDD	39227-28-6	0.0661	JBQ	0.0276	5.49	1
11031	123678-HxCDD	57653-85-7	0.225	JBQ	0.0296	5.49	1
11031	123789-HxCDD	19408-74-3	0.183	JBQ	0.0274	5.49	1
11031	1234678-HpCDD	35822-46-9	2.83	JB	0.0385	5.49	1
11031	OCDD	3268-87-9	30.0	B	0.0392	11.0	1
11031	2378-TCDF	51207-31-9	0.159	JQ	0.0447	1.10	1
11031	12378-PeCDF	57117-41-6	0.0636	JBQ	0.0249	5.49	1
11031	23478-PeCDF	57117-31-4	0.174	JBQ	0.0241	5.49	1
11031	123478-HxCDF	70648-26-9	0.249	JBQ	0.0280	5.49	1
11031	123678-HxCDF	57117-44-9	0.105	JBQ	0.0241	5.49	1
11031	123789-HxCDF	72918-21-9	0.209	JBQ	0.0239	5.49	1
11031	234678-HxCDF	60851-34-5	0.108	JBQ	0.0191	5.49	1
11031	1234678-HpCDF	67562-39-4	0.446	JBQ	0.0183	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0789	JBQ	0.0241	5.49	1
11031	OCDF	39001-02-0	0.827	JB	0.0503	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-185-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298905
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:27

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X185- SDG#: DX090-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-185-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298905
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:27

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
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Chantilly VA 20151

X185- SDG#: DX090-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/14/2011 05:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298906
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP6 SDG#: DX090-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298906
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP6 SDG#: DX090-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0306	JQ	0.0253	1.16	1
11031	12378-PeCDD	40321-76-4	0.0722	JQ	0.0292	5.80	1
11031	123478-HxCDD	39227-28-6	0.0914	JBQ	0.0286	5.80	1
11031	123678-HxCDD	57653-85-7	0.243	JB	0.0302	5.80	1
11031	123789-HxCDD	19408-74-3	0.248	JB	0.0286	5.80	1
11031	1234678-HpCDD	35822-46-9	3.07	JB	0.0301	5.80	1
11031	OCDD	3268-87-9	34.9	B	0.0312	11.6	1
11031	2378-TCDF	51207-31-9	0.0350	U	0.0350	1.16	1
11031	12378-PeCDF	57117-41-6	0.135	JB	0.0206	5.80	1
11031	23478-PeCDF	57117-31-4	0.189	JB	0.0195	5.80	1
11031	123478-HxCDF	70648-26-9	0.120	JBQ	0.0237	5.80	1
11031	123678-HxCDF	57117-44-9	0.0804	JB	0.0219	5.80	1
11031	123789-HxCDF	72918-21-9	0.233	JBQ	0.0234	5.80	1
11031	234678-HxCDF	60851-34-5	0.112	JBQ	0.0223	5.80	1
11031	1234678-HpCDF	67562-39-4	0.537	JB	0.0149	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0704	JBQ	0.0184	5.80	1
11031	OCDF	39001-02-0	1.32	JB	0.0353	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298906
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP6 SDG#: DX090-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP06-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP06-SA5DN-QC-052411

LLI Sample # SW 6298906
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/24/2011 15:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP6 SDG#: DX090-03FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/10/2011 17:43	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298907
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X001- SDG#: DX090-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298907
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X001- SDG#: DX090-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256	U	0.0256	1.13	1
11031	12378-PeCDD	40321-76-4	0.341	JQ	0.0346	5.66	1
11031	123478-HxCDD	39227-28-6	0.431	JB	0.0401	5.66	1
11031	123678-HxCDD	57653-85-7	2.28	JB	0.0425	5.66	1
11031	123789-HxCDD	19408-74-3	1.50	JB	0.0417	5.66	1
11031	1234678-HpCDD	35822-46-9	53.8	B	0.0893	5.66	1
11031	OCDD	3268-87-9	1,200	B	0.0847	11.3	1
11031	2378-TCDF	51207-31-9	0.375	J	0.0555	1.13	1
11031	12378-PeCDF	57117-41-6	0.827	JB	0.0284	5.66	1
11031	23478-PeCDF	57117-31-4	1.06	JB	0.0293	5.66	1
11031	123478-HxCDF	70648-26-9	1.34	JB	0.0392	5.66	1
11031	123678-HxCDF	57117-44-9	0.845	JB	0.0348	5.66	1
11031	123789-HxCDF	72918-21-9	1.62	JB	0.0396	5.66	1
11031	234678-HxCDF	60851-34-5	0.944	JB	0.0357	5.66	1
11031	1234678-HpCDF	67562-39-4	13.6	B	0.0260	5.66	1
11031	1234789-HpCDF	55673-89-7	0.805	JB	0.0379	5.66	1
11031	OCDF	39001-02-0	23.7	B	0.0366	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298907
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X001- SDG#: DX090-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298907
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X001- SDG#: DX090-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/10/2011 18:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298908
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X002- SDG#: DX090-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298908
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X002- SDG#: DX090-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0224	U	0.0224	1.02	1
11031	12378-PeCDD	40321-76-4	0.301	J	0.0294	5.11	1
11031	123478-HxCDD	39227-28-6	0.530	JB	0.0320	5.11	1
11031	123678-HxCDD	57653-85-7	1.76	JB	0.0346	5.11	1
11031	123789-HxCDD	19408-74-3	0.958	JB	0.0327	5.11	1
11031	1234678-HpCDD	35822-46-9	37.3	B	0.0666	5.11	1
11031	OCDD	3268-87-9	456	B	0.0548	10.2	1
11031	2378-TCDF	51207-31-9	0.161	J	0.0429	1.02	1
11031	12378-PeCDF	57117-41-6	0.278	JB	0.0242	5.11	1
11031	23478-PeCDF	57117-31-4	0.672	JB	0.0237	5.11	1
11031	123478-HxCDF	70648-26-9	0.599	JB	0.0319	5.11	1
11031	123678-HxCDF	57117-44-9	0.513	JB	0.0286	5.11	1
11031	123789-HxCDF	72918-21-9	0.408	JB	0.0292	5.11	1
11031	234678-HxCDF	60851-34-5	0.662	JB	0.0257	5.11	1
11031	1234678-HpCDF	67562-39-4	7.21	B	0.0326	5.11	1
11031	1234789-HpCDF	55673-89-7	0.439	JBQ	0.0352	5.11	1
11031	OCDF	39001-02-0	13.5	B	0.0326	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298908
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X002- SDG#: DX090-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298908
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 09:20

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X002- SDG#: DX090-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/10/2011 19:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298909
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X004- SDG#: DX090-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298909
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X004- SDG#: DX090-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	3.48		0.0706	1.06	1
11031	12378-PeCDD	40321-76-4	4.20	J	0.0621	5.31	1
11031	123478-HxCDD	39227-28-6	0.254	JB	0.0370	5.31	1
11031	123678-HxCDD	57653-85-7	0.736	JB	0.0395	5.31	1
11031	123789-HxCDD	19408-74-3	1.80	JB	0.0373	5.31	1
11031	1234678-HpCDD	35822-46-9	1.24	JB	0.0361	5.31	1
11031	OCDD	3268-87-9	9.88	JB	0.0493	10.6	1
11031	2378-TCDF	51207-31-9	0.138	J	0.0312	1.06	1
11031	12378-PeCDF	57117-41-6	0.272	JBQ	0.0180	5.31	1
11031	23478-PeCDF	57117-31-4	0.317	JB	0.0165	5.31	1
11031	123478-HxCDF	70648-26-9	0.164	JB	0.0251	5.31	1
11031	123678-HxCDF	57117-44-9	0.178	JB	0.0238	5.31	1
11031	123789-HxCDF	72918-21-9	0.165	JB	0.0248	5.31	1
11031	234678-HxCDF	60851-34-5	0.165	JB	0.0199	5.31	1
11031	1234678-HpCDF	67562-39-4	0.289	JB	0.0291	5.31	1
11031	1234789-HpCDF	55673-89-7	0.113	JB	0.0324	5.31	1
11031	OCDF	39001-02-0	0.519	JB	0.0550	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	50	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	110	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298909
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X004- SDG#: DX090-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-004-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298909
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:55

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X004- SDG#: DX090-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/10/2011 20:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298910
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X005- SDG#: DX090-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298910
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X005- SDG#: DX090-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.104	J	0.0195	1.11	1
11031	12378-PeCDD	40321-76-4	0.590	J	0.0353	5.55	1
11031	123478-HxCDD	39227-28-6	0.589	JB	0.0302	5.55	1
11031	123678-HxCDD	57653-85-7	1.80	JB	0.0310	5.55	1
11031	123789-HxCDD	19408-74-3	1.76	JB	0.0305	5.55	1
11031	1234678-HpCDD	35822-46-9	28.9	B	0.0550	5.55	1
11031	OCDD	3268-87-9	345	B	0.0553	11.1	1
11031	2378-TCDF	51207-31-9	0.590	J	0.0539	1.11	1
11031	12378-PeCDF	57117-41-6	0.574	JB	0.0279	5.55	1
11031	23478-PeCDF	57117-31-4	0.962	JB	0.0268	5.55	1
11031	123478-HxCDF	70648-26-9	0.752	JB	0.0258	5.55	1
11031	123678-HxCDF	57117-44-9	0.541	JBQ	0.0236	5.55	1
11031	123789-HxCDF	72918-21-9	1.08	JB	0.0270	5.55	1
11031	234678-HxCDF	60851-34-5	0.492	JB	0.0219	5.55	1
11031	1234678-HpCDF	67562-39-4	4.57	JB	0.0233	5.55	1
11031	1234789-HpCDF	55673-89-7	0.382	JB	0.0277	5.55	1
11031	OCDF	39001-02-0	8.90	JB	0.0305	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298910
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X005- SDG#: DX090-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298910
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 10:10

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X005- SDG#: DX090-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/11/2011 22:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298911
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X006- SDG#: DX090-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298911
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X006- SDG#: DX090-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.182	J	0.0317	1.20	1
11031	12378-PeCDD	40321-76-4	1.53	J	0.0607	5.98	1
11031	123478-HxCDD	39227-28-6	2.76	JB	0.0601	5.98	1
11031	123678-HxCDD	57653-85-7	5.43	JB	0.0644	5.98	1
11031	123789-HxCDD	19408-74-3	5.71	JB	0.0616	5.98	1
11031	1234678-HpCDD	35822-46-9	147	B	0.128	5.98	1
11031	OCDD	3268-87-9	1,670	B	0.139	12.0	1
11031	2378-TCDF	51207-31-9	0.125	U	0.125	1.20	1
11031	12378-PeCDF	57117-41-6	2.16	JB	0.0636	5.98	1
11031	23478-PeCDF	57117-31-4	2.52	JB	0.0565	5.98	1
11031	123478-HxCDF	70648-26-9	4.93	JB	0.0570	5.98	1
11031	123678-HxCDF	57117-44-9	1.77	JB	0.0568	5.98	1
11031	123789-HxCDF	72918-21-9	1.40	JB	0.0646	5.98	1
11031	234678-HxCDF	60851-34-5	1.92	JB	0.0587	5.98	1
11031	1234678-HpCDF	67562-39-4	33.4	B	0.0549	5.98	1
11031	1234789-HpCDF	55673-89-7	1.98	JB	0.0708	5.98	1
11031	OCDF	39001-02-0	64.3	B	0.0480	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298911
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X006- SDG#: DX090-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298911
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 08:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X006- SDG#: DX090-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/11/2011 23:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298912
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X060- SDG#: DX090-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298912
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X060- SDG#: DX090-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0919	JQ	0.0211	1.06	1
11031	12378-PeCDD	40321-76-4	0.375	J	0.0321	5.28	1
11031	123478-HxCDD	39227-28-6	0.428	JB	0.0317	5.28	1
11031	123678-HxCDD	57653-85-7	1.29	JB	0.0340	5.28	1
11031	123789-HxCDD	19408-74-3	1.17	JB	0.0341	5.28	1
11031	1234678-HpCDD	35822-46-9	23.4	B	0.0661	5.28	1
11031	OCDD	3268-87-9	375	B	0.0705	10.6	1
11031	2378-TCDF	51207-31-9	0.266	J	0.0404	1.06	1
11031	12378-PeCDF	57117-41-6	0.297	JB	0.0272	5.28	1
11031	23478-PeCDF	57117-31-4	0.643	JB	0.0269	5.28	1
11031	123478-HxCDF	70648-26-9	0.824	JB	0.0307	5.28	1
11031	123678-HxCDF	57117-44-9	0.361	JBQ	0.0290	5.28	1
11031	123789-HxCDF	72918-21-9	0.836	JB	0.0267	5.28	1
11031	234678-HxCDF	60851-34-5	0.477	JB	0.0222	5.28	1
11031	1234678-HpCDF	67562-39-4	2.75	JB	0.0303	5.28	1
11031	1234789-HpCDF	55673-89-7	0.376	JB	0.0337	5.28	1
11031	OCDF	39001-02-0	7.68	JB	0.0404	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	44	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	101	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298912
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X060- SDG#: DX090-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298912
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 15:30

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X060- SDG#: DX090-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/12/2011 00:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298913
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X190- SDG#: DX090-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298913
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X190- SDG#: DX090-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0209	JQ	0.0153	1.18	1
11031	12378-PeCDD	40321-76-4	0.0792	JQ	0.0245	5.88	1
11031	123478-HxCDD	39227-28-6	0.0688	JB	0.0250	5.88	1
11031	123678-HxCDD	57653-85-7	0.225	JB	0.0277	5.88	1
11031	123789-HxCDD	19408-74-3	0.207	JB	0.0259	5.88	1
11031	1234678-HpCDD	35822-46-9	3.75	JB	0.0372	5.88	1
11031	OCDD	3268-87-9	31.8	B	0.0367	11.8	1
11031	2378-TCDF	51207-31-9	0.265	J	0.0430	1.18	1
11031	12378-PeCDF	57117-41-6	0.131	JB	0.0214	5.88	1
11031	23478-PeCDF	57117-31-4	0.322	JB	0.0215	5.88	1
11031	123478-HxCDF	70648-26-9	0.354	JB	0.0209	5.88	1
11031	123678-HxCDF	57117-44-9	0.118	JB	0.0175	5.88	1
11031	123789-HxCDF	72918-21-9	0.144	JB	0.0265	5.88	1
11031	234678-HxCDF	60851-34-5	0.162	JB	0.0200	5.88	1
11031	1234678-HpCDF	67562-39-4	0.778	JB	0.0191	5.88	1
11031	1234789-HpCDF	55673-89-7	0.0957	JBQ	0.0373	5.88	1
11031	OCDF	39001-02-0	1.52	JB	0.0547	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	30	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-190-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298913
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X190- SDG#: DX090-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-190-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-190-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298913
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:45

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X190- SDG#: DX090-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/12/2011 01:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298914
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X199- SDG#: DX090-11*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298914
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X199- SDG#: DX090-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0836	J	0.0160	1.07	1
11031	12378-PeCDD	40321-76-4	0.570	J	0.0276	5.37	1
11031	123478-HxCDD	39227-28-6	1.15	JB	0.0258	5.37	1
11031	123678-HxCDD	57653-85-7	4.42	JB	0.0275	5.37	1
11031	123789-HxCDD	19408-74-3	2.53	JB	0.0269	5.37	1
11031	1234678-HpCDD	35822-46-9	126	B	0.0765	5.37	1
11031	OCDD	3268-87-9	1,270	B	0.0632	10.7	1
11031	2378-TCDF	51207-31-9	4.39		0.0975	1.07	1
11650	2378-TCDF-Conf	51207-31-9	2.13	B	0.0800	1.07	1
11031	12378-PeCDF	57117-41-6	1.96	JB	0.0291	5.37	1
11031	23478-PeCDF	57117-31-4	2.42	JB	0.0292	5.37	1
11031	123478-HxCDF	70648-26-9	0.929	JB	0.0230	5.37	1
11031	123678-HxCDF	57117-44-9	1.11	JB	0.0198	5.37	1
11031	123789-HxCDF	72918-21-9	0.723	JB	0.0262	5.37	1
11031	234678-HxCDF	60851-34-5	1.50	JB	0.0215	5.37	1
11031	1234678-HpCDF	67562-39-4	22.3	B	0.0193	5.37	1
11031	1234789-HpCDF	55673-89-7	1.83	JB	0.0329	5.37	1
11031	OCDF	39001-02-0	51.0	B	0.0236	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298914
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X199- SDG#: DX090-11*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-199-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-199-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298914
LLI Group # 1248709
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 11:40

Submitted: 05/26/2011 10:20
Reported: 06/17/2011 10:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X199- SDG#: DX090-11*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/13/2011 14:05	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11159001	06/14/2011 14:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401A	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248709
Reported: 06/17/11 at 10:06 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11157162401A	Sample number(s): 6298902-6298914								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11159001	Sample number(s): 6298902-6298914								
2378-TCDD	0.0187 U	0.0187	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0189 U	0.0189	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0419 J	0.0150	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0307 J	0.0165	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0427 J	0.0139	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.182 J	0.0186	5.00	ng/kg	96		70-140		
OCDD	0.425 J	0.0174	10.0	ng/kg	96		78-144		
2378-TCDF	0.0228 U	0.0228	1.00	ng/kg	101		75-158		
2378-TCDF-Conf	0.0408 J	0.0195	1.00	ng/kg					
12378-PeCDF	0.0269 J	0.0122	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0558 J	0.0129	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0475 J	0.0250	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0493 J	0.0194	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0885 J	0.0173	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0739 J	0.0135	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.118 J	0.00990	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0736 J	0.0140	5.00	ng/kg	100		78-138		
OCDF	0.342 J	0.0348	10.0	ng/kg	100		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11157162401A	Sample number(s): 6298902-6298914 BKG: P298888								
Moisture Content by 160.3						13.4	13.5	1	20
Batch number: 11159001	Sample number(s): 6298902-6298914 UNSPK: 6298902								
2378-TCDD	87	89	67-158	3	25				
12378-PeCDD	93	93	70-142	1	25				
123478-HxCDD	93	94	70-164	1	25				
123678-HxCDD	97	97	76-134	1	25				
123789-HxCDD	96	97	64-162	2	25				
1234678-HpCDD	94	96	70-140	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248709
Reported: 06/17/11 at 10:06 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	92	92	78-144	1	25				
2378-TCDF	92	94	75-158	3	25				
12378-PeCDF	97	99	80-134	3	25				
23478-PeCDF	98	98	68-160	1	25				
123478-HxCDF	97	100	72-134	4	25				
123678-HxCDF	95	97	84-130	2	25				
123789-HxCDF	98	98	78-130	1	25				
234678-HxCDF	97	98	70-156	1	25				
1234678-HpCDF	97	97	82-122	2	25				
1234789-HpCDF	99	98	78-138	0	25				
OCDF	98	100	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11159001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6298902	81	74	59	65	76	76
6298903	81	74	67	71	76	75
6298904	81	72	63	68	76	78
6298905	79	74	53	60	77	73
6298906	80	75	73	76	76	80
6298907	76	69	66	72	68	68
6298908	78	71	60	64	75	74
6298909	94	85	78	79	88	87
6298910	80	79	76	81	83	79
6298911	78	99	82	81	81	81
6298912	78	85	62	62	76	78
6298913	81	74	64	74	65	58
6298914	80	78	73	80	75	69
Blank	77	65	40	51	73	64
MS	81	74	67	71	76	75
MSD	81	72	63	68	76	78
OPR	67	62	32	40	68	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6298902	69	68	60	98	77	77
6298903	71	68	60	98	78	77
6298904	73	68	59	96	78	78
6298905	62	56	44	95	76	72
6298906	75	69	61	95	78	77
6298907	77	59	50	94	75	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248709
Reported: 06/17/11 at 10:06 AM

Surrogate Quality Control

6298908	67	68	60	98	75	75
6298909	69	67	48	110	85	90
6298910	75	72	57	94	79	78
6298911	74	67	60	95	88	77
6298912	56	56	43	101	90	75
6298913	72	43	30	90	79	70
6298914	83	56	42	98	81	74
Blank	70	58	50	106	77	76
MS	71	68	60	98	78	77
MSD	73	68	59	96	78	78
OPR	55	56	50	97	71	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6298902	76	80	74	66	78	78
6298903	76	80	74	64	78	77
6298904	77	78	73	65	76	75
6298905	74	77	66	50	77	80
6298906	77	78	74	66	76	77
6298907	73	74	70	62	69	75
6298908	75	78	73	65	74	74
6298909	85	89	71	50	91	83
6298910	79	78	76	59	88	83
6298911	77	77	72	62	86	96
6298912	73	72	57	44	88	88
6298913	69	70	56	42	75	83
6298914	76	76	63	54	80	88
Blank	76	85	81	74	65	74
MS	76	80	74	64	78	77
MSD	77	78	73	65	76	75
OPR	70	77	74	67	59	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6298902	
6298903	
6298904	
6298905	
6298906	
6298907	
6298908	
6298909	
6298910	
6298911	
6298912	
6298913	
6298914	76
Blank	60
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248709
Reported: 06/17/11 at 10:06 AM

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1248709 6298902-14

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X									MS/MSD
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-SS sleeve			X	X																MS/MSD
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-SS sleeve			X	X																
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-SS sleeve			X	X																
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X									
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	1-SS sleeve			X	X																
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X									
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	1-SS sleeve			X	X																
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-SS sleeve			X	X																
SL-005-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-005-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-SS sleeve			X	X																
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X									
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	1-SS sleeve			X	X																
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-SS sleeve			X	X																
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-SS sleeve			X	X																
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-SS sleeve			X	X																
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-SS sleeve			X	X																
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X									MS/MSD
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-SS sleeve			X	X																MS/MSD
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-SS sleeve			X	X																
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-SS sleeve			X	X																

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/26/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/26/11 1024	8695 1442 0913,0924,0935,0946,0957	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/26/2011
Group Number: 1248710
SDG: DE164
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-200-SA5DN-SS-0.0-0.5 Soil	6298915
SL-201-SA5DN-SS-0.0-0.5 Soil	6298916
SL-201-SA5DN-SS-0.0-0.5MS Soil	6298917
SL-201-SA5DN-SS-0.0-0.5MSD Soil	6298918
SL-201-SA5DN-SS-0.0-0.5DUP Soil	6298919
SL-205-SA5DN-SS-0.0-0.5 Soil	6298920
DUP08-SA5DN-QC-052411 Soil	6298921
EB07-SA5DN-SS-052511 Water	6298922
EB08-SA5DN-SB-052511 Water	6298923

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298915
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--200 SDG#: DE164-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298915
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--200 SDG#: DE164-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	1.1	J	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	1.5	J	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	1.0	J	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	1.5	J	0.77	1.9	1
10138	Pyrene	129-00-0	1.1	J	0.77	1.9	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.1	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	0.71	U	0.71	2.0	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0	1
10401	MCPA	94-74-6	87	U	87	290	1
10401	MCPP (Mecoprop)	93-65-2	86	U	86	290	1
10401	2,4,5-T	93-76-5	0.094	U	0.094	0.20	1
10401	2,4,5-TP	93-72-1	0.086	U	0.086	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.039	U	0.039	0.19	1
01363	Chlordane	57-74-9	1.9	J	0.92	3.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298915
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--200 SDG#: DE164-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.076	U	0.076	0.39	1
01363	p,p-DDE	72-55-9	0.98		0.076	0.39	1
01363	p,p-DDT	50-29-3	0.35	J	0.076	0.39	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.076	U	0.076	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.076	U	0.076	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.076	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.076	U	0.076	0.39	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.069	U	0.069	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.19	1
01363	Methoxychlor	72-43-5	0.39	U	0.39	1.9	1
01363	Mirex	2385-85-5	0.076	U	0.076	0.39	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	1.1	J	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,100		5.70	22.7	1
07914	Boron	7440-42-8	22.0		1.01	5.67	1
01650	Calcium	7440-70-2	15,400		6.95	22.7	1
01654	Iron	7439-89-6	36,300		26.7	113	5
01656	Lithium	7439-93-2	25.2		0.25	2.3	1
01657	Magnesium	7439-95-4	8,480		2.88	11.3	1
06958	Manganese	7439-96-5	466		0.0884	0.567	1
10145	Phosphorus	7723-14-0	757		0.635	11.3	1
01662	Potassium	7440-09-7	8,260		20.4	56.7	1
01667	Sodium	7440-23-5	91.6	J	42.3	113	1
07968	Strontium	7440-24-6	42.1		0.0703	0.567	1
06969	Tin	7440-31-5	2.84	J	1.13	11.3	1
06970	Titanium	7440-32-6	1,220		0.431	1.13	1
10146	Zirconium	7440-67-7	1.80	J	0.952	5.67	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298915
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

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Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--200 SDG#: DE164-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.291	0.0667	0.222	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.64	0.0889	0.445	2
06126	Barium	7440-39-3	115	0.120	0.445	2
06127	Beryllium	7440-41-7	0.742	0.0178	0.111	2
06128	Cadmium	7440-43-9	0.424	0.0445	0.111	2
06131	Chromium	7440-47-3	30.1	0.133	0.445	2
06132	Cobalt	7440-48-4	10.9	0.0222	0.111	2
06133	Copper	7440-50-8	19.6	0.0734	0.445	2
06135	Lead	7439-92-1	12.7	0.0116	0.222	2
06138	Molybdenum	7439-98-7	0.533	0.0556	0.111	2
06139	Nickel	7440-02-0	21.7	0.111	0.445	2
06141	Selenium	7782-49-2	0.310 J	0.0445	0.445	2
06142	Silver	7440-22-4	0.0420 J	0.0133	0.111	2
06145	Thallium	7440-28-0	0.367	0.0333	0.111	2
06148	Vanadium	7440-62-2	55.6	0.0245	0.111	2
06149	Zinc	7440-66-6	83.7	0.622	3.33	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0267 J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.94 J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298915
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--200 SDG#: DE164-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 13:55	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 13:12	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 03:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111530027A	06/09/2011 00:38	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510015A	06/04/2011 12:42	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111530027A	06/03/2011 03:30	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510015A	05/31/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111510018A	05/31/2011 20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/08/2011 19:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 14:14	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:36	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 02:47	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 02:47	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 02:47	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298915
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--200 SDG#: DE164-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 02:47	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 11:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/10/2011 14:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 12:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11153039401A	06/02/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298916
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298916
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.87	J	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.99	J	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	1.7	J	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	2.4		0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	J	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.93	J	0.79	2.0	1
10138	Naphthalene	91-20-3	1.4	J	0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	2.0		0.79	2.0	1
10138	Pyrene	129-00-0	1.9	J	0.79	2.0	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	110	J	90	290	1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290	1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20	1

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298916
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20	1
01363	Chlordane	57-74-9	1.9	J	0.95	4.0	1
01363	p,p-DDD	72-54-8	0.36	U	0.36	0.40	1
01363	p,p-DDE	72-55-9	1.1		0.078	0.40	1
01363	p,p-DDT	50-29-3	1.3		0.078	0.40	1
01363	Delta BHC	319-86-8	0.14	J	0.043	0.20	1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40	1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20	1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40	1
01363	Endrin	72-20-8	0.078	U	0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.40	1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40	1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.20	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0	1
01363	Mirex	2385-85-5	0.13	U	0.13	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	3.1		0.39	2.0	1
10225	PCB-1260	11096-82-5	2.3		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,600		5.84	23.2	1
07914	Boron	7440-42-8	21.9		1.03	5.80	1
01650	Calcium	7440-70-2	34,400		7.11	23.2	1
01654	Iron	7439-89-6	33,800		27.3	116	5
01656	Lithium	7439-93-2	23.2		0.26	2.3	1
01657	Magnesium	7439-95-4	8,020		2.95	11.6	1
06958	Manganese	7439-96-5	440		0.0905	0.580	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298916
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	694		0.650	11.6	1
01662	Potassium	7440-09-7	7,380		20.9	58.0	1
01667	Sodium	7440-23-5	121		43.3	116	1
07968	Strontium	7440-24-6	73.6		0.0719	0.580	1
06969	Tin	7440-31-5	2.82	J	1.16	11.6	1
06970	Titanium	7440-32-6	1,210		0.441	1.16	1
10146	Zirconium	7440-67-7	2.13	J	0.975	5.80	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.291		0.0703	0.234	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.40		0.0937	0.469	2
06126	Barium	7440-39-3	118		0.127	0.469	2
06127	Beryllium	7440-41-7	0.724		0.0187	0.117	2
06128	Cadmium	7440-43-9	0.387		0.0469	0.117	2
06131	Chromium	7440-47-3	29.4		0.141	0.469	2
06132	Cobalt	7440-48-4	10.7		0.0234	0.117	2
06133	Copper	7440-50-8	18.5		0.0773	0.469	2
06135	Lead	7439-92-1	13.9		0.0122	0.234	2
06138	Molybdenum	7439-98-7	0.483		0.0586	0.117	2
06139	Nickel	7440-02-0	20.9		0.117	0.469	2
06141	Selenium	7782-49-2	0.316	J	0.0469	0.469	2
06142	Silver	7440-22-4	0.0461	J	0.0141	0.117	2
06145	Thallium	7440-28-0	0.401		0.0352	0.117	2
06148	Vanadium	7440-62-2	55.1		0.0258	0.117	2
06149	Zinc	7440-66-6	81.4		0.656	3.52	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0165	J	0.0034	0.118	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	U	0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.5		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298916
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 12:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 11:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/06/2011 20:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111530027A	06/09/2011 01:06	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510015A	06/04/2011 13:00	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111530027A	06/03/2011 03:30	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510015A	05/31/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111510018A	05/31/2011 20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/08/2011 18:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 13:45	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:11	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 02:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298916
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 02:29	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 02:29	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 02:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 09:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/08/2011 14:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 12:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11153039401A	06/02/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298917
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	2,000		20	200	1
04688	Acenaphthylene	208-96-8	2,000		20	200	1
04688	Aniline	62-53-3	1,400		200	590	1
04688	Anthracene	120-12-7	2,000		20	200	1
04688	Benzidine	92-87-5	2,000	J	1,400	3,900	1
04688	Benzo(a)anthracene	56-55-3	2,000		20	200	1
04688	Benzo(a)pyrene	50-32-8	1,800		20	200	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		20	200	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		20	200	1
04688	Benzoic acid	65-85-0	960		200	590	1
04688	Benzyl alcohol	100-51-6	1,900		200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	2,000		20	200	1
04688	Butylbenzylphthalate	85-68-7	2,200		20	200	1
04688	Di-n-butylphthalate	84-74-2	2,000		20	200	1
04688	Carbazole	86-74-8	1,900		20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		39	200	1
04688	4-Chloroaniline	106-47-8	1,200		79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,900		20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		20	200	1
04688	2-Chloronaphthalene	91-58-7	1,400		20	200	1
04688	2-Chlorophenol	95-57-8	2,000		20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		39	200	1
04688	Chrysene	218-01-9	2,000		20	200	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		20	200	1
04688	Dibenzofuran	132-64-9	2,000		20	200	1
04688	1,2-Dichlorobenzene	95-50-1	1,800		20	200	1
04688	1,3-Dichlorobenzene	541-73-1	1,800		20	200	1
04688	1,4-Dichlorobenzene	106-46-7	1,800		20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		120	390	1
04688	2,4-Dichlorophenol	120-83-2	2,000		20	200	1
04688	Diethylphthalate	84-66-2	1,900		20	200	1
04688	2,4-Dimethylphenol	105-67-9	2,000		39	200	1
04688	3,5-Dimethylphenol	108-68-9	2,100		39	200	1
04688	Dimethylphthalate	131-11-3	2,000		20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	990		200	590	1
04688	2,4-Dinitrophenol	51-28-5	1,100	J	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		39	200	1
04688	2,6-Dinitrotoluene	606-20-2	2,000		20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	2,300		20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		20	390	1
04688	Fluoranthene	206-44-0	1,900		20	200	1
04688	Fluorene	86-73-7	1,900		20	200	1
04688	Hexachlorobenzene	118-74-1	2,100		20	200	1
04688	Hexachlorobutadiene	87-68-3	2,000		79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	1,800		200	590	1
04688	Hexachloroethane	67-72-1	1,500		20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		20	200	1
04688	Isophorone	78-59-1	1,900		20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298917
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,900	20	200	1
04688	2-Methylnaphthalene	91-57-6	1,800	20	200	1
04688	2-Methylphenol	95-48-7	1,900	39	200	1
04688	4-Methylphenol	106-44-5	1,800	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,900	20	200	1
04688	2-Nitroaniline	88-74-4	2,000	20	200	1
04688	3-Nitroaniline	99-09-2	1,800	39	200	1
04688	4-Nitroaniline	100-01-6	1,400	79	200	1
04688	Nitrobenzene	98-95-3	1,900	20	200	1
04688	2-Nitrophenol	88-75-5	2,000	20	200	1
04688	4-Nitrophenol	100-02-7	1,500	200	590	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	39	200	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	2,100	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	20	200	1
04688	Pentachlorophenol	87-86-5	1,400	200	590	1
04688	Phenanthrene	85-01-8	2,000	20	200	1
04688	Phenol	108-95-2	1,800	20	200	1
04688	Pyrene	129-00-0	2,000	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	2,000	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	200	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35	0.79	2.0	1
10138	Acenaphthylene	208-96-8	32	0.39	2.0	1
10138	Anthracene	120-12-7	35	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	35	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	37	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	42	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	26	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	34	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	51	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	44	7.1	21	1
10138	Chrysene	218-01-9	38	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	29	0.79	2.0	1
10138	Diethylphthalate	84-66-2	35	7.1	21	1
10138	Dimethylphthalate	131-11-3	35	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49	7.1	21	1
10138	Fluoranthene	206-44-0	41	0.79	2.0	1
10138	Fluorene	86-73-7	35	0.79	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298917
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	29		0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	40		0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	37		0.79	2.0	1
10138	Naphthalene	91-20-3	44		0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	46		7.1	21	1
10138	Phenanthrene	85-01-8	39		0.79	2.0	1
10138	Pyrene	129-00-0	33		0.79	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.0		1.4	4.2	1
10401	Dalapon	75-99-0	10	J	5.2	11	1
10401	2,4-DB	94-82-6	5.9		0.73	2.0	1
10401	Dicamba	1918-00-9	0.86	J	0.47	1.4	1
10401	Dinoseb	88-85-7	4.0		0.95	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.95	2.0	1
10401	MCPA	94-74-6	950		90	290	1
10401	MCPP (Mecoprop)	93-65-2	650		88	290	1
10401	2,4,5-T	93-76-5	0.27		0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.72		0.089	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.2		0.078	0.20	1
01363	Alpha BHC	319-84-6	1.4		0.040	0.20	1
01363	Beta BHC	319-85-7	1.1		0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	1.4		0.040	0.20	1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0	1
01363	p,p-DDD	72-54-8	2.1		0.078	0.40	1
01363	p,p-DDE	72-55-9	3.5		0.078	0.40	1
01363	p,p-DDT	50-29-3	4.8		0.078	0.40	1
01363	Delta BHC	319-86-8	1.4		0.043	0.20	1
01363	Dieldrin	60-57-1	2.9		0.078	0.40	1
01363	Endosulfan I	959-98-8	1.1		0.052	0.20	1
01363	Endosulfan II	33213-65-9	1.9		0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	1.8		0.078	0.40	1
01363	Endrin	72-20-8	1.8		0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	2.2		0.078	0.40	1
01363	Endrin Ketone	53494-70-5	1.6		0.078	0.40	1
01363	Heptachlor	76-44-8	1.5		0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.92		0.040	0.20	1
01363	Methoxychlor	72-43-5	12		0.40	2.0	1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298917
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	J	1.2	3.9	1
10225	PCB-1016	12674-11-2	19		0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	24		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	37,000		5.89	23.4	1
07914	Boron	7440-42-8	265		1.04	5.86	1
01650	Calcium	7440-70-2	34,300		7.18	23.4	1
01654	Iron	7439-89-6	32,900		27.6	117	5
01656	Lithium	7439-93-2	151		0.26	2.3	1
01657	Magnesium	7439-95-4	9,200		2.98	11.7	1
06958	Manganese	7439-96-5	492		0.0914	0.586	1
10145	Phosphorus	7723-14-0	807		0.656	11.7	1
01662	Potassium	7440-09-7	9,520		21.1	58.6	1
01667	Sodium	7440-23-5	1,300		43.7	117	1
07968	Strontium	7440-24-6	190		0.0726	0.586	1
06969	Tin	7440-31-5	402		1.17	11.7	1
06970	Titanium	7440-32-6	1,750		0.445	1.17	1
10146	Zirconium	7440-67-7	92.5		0.984	5.86	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.835		0.0689	0.230	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.04		0.0919	0.460	2
06126	Barium	7440-39-3	128		0.124	0.460	2
06127	Beryllium	7440-41-7	1.44		0.0184	0.115	2
06128	Cadmium	7440-43-9	1.50		0.0460	0.115	2
06131	Chromium	7440-47-3	39.9		0.138	0.460	2
06132	Cobalt	7440-48-4	64.9		0.0230	0.115	2
06133	Copper	7440-50-8	29.0		0.0758	0.460	2
06135	Lead	7439-92-1	17.1		0.0119	0.230	2
06138	Molybdenum	7439-98-7	11.4		0.0574	0.115	2
06139	Nickel	7440-02-0	32.2		0.115	0.460	2
06141	Selenium	7782-49-2	2.46		0.0460	0.460	2
06142	Silver	7440-22-4	11.3		0.0138	0.115	2
06145	Thallium	7440-28-0	0.840		0.0345	0.115	2
06148	Vanadium	7440-62-2	67.1		0.0253	0.115	2
06149	Zinc	7440-66-6	91.3		0.643	3.45	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298917
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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--201 SDG#: DE164-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.220	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.8	0.95	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	655	10.7	35.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	44.3	1.2	5.9	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 13:05	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 11:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/06/2011 21:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111530027A	06/09/2011 01:20	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510015A	06/04/2011 13:19	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111530027A	06/03/2011 03:30	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510015A	05/31/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111510018A	05/31/2011 20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 14:01	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298917
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

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Suite 210
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--201 SDG#: DE164-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 02:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 02:38	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 02:38	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 02:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 10:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/08/2011 14:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 12:56	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298918
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		20	200	1
04688	Acenaphthylene	208-96-8	1,900		20	200	1
04688	Aniline	62-53-3	1,300		200	590	1
04688	Anthracene	120-12-7	1,900		20	200	1
04688	Benzidine	92-87-5	2,000	J	1,400	3,900	1
04688	Benzo(a)anthracene	56-55-3	1,900		20	200	1
04688	Benzo(a)pyrene	50-32-8	1,700		20	200	1
04688	Benzo(b)fluoranthene	205-99-2	1,700		20	200	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		20	200	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		20	200	1
04688	Benzoic acid	65-85-0	730		200	590	1
04688	Benzyl alcohol	100-51-6	1,800		200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	2,000		20	200	1
04688	Butylbenzylphthalate	85-68-7	2,100		20	200	1
04688	Di-n-butylphthalate	84-74-2	2,000		20	200	1
04688	Carbazole	86-74-8	1,800		20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		39	200	1
04688	4-Chloroaniline	106-47-8	1,200		79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,900		20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		20	200	1
04688	2-Chloronaphthalene	91-58-7	1,400		20	200	1
04688	2-Chlorophenol	95-57-8	1,900		20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		39	200	1
04688	Chrysene	218-01-9	1,900		20	200	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		20	200	1
04688	Dibenzofuran	132-64-9	1,900		20	200	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		20	200	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		20	200	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500		120	390	1
04688	2,4-Dichlorophenol	120-83-2	1,900		20	200	1
04688	Diethylphthalate	84-66-2	1,800		20	200	1
04688	2,4-Dimethylphenol	105-67-9	1,900		39	200	1
04688	3,5-Dimethylphenol	108-68-9	2,000		39	200	1
04688	Dimethylphthalate	131-11-3	1,900		20	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	910		200	590	1
04688	2,4-Dinitrophenol	51-28-5	940	J	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		39	200	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	2,200		20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		20	390	1
04688	Fluoranthene	206-44-0	1,700		20	200	1
04688	Fluorene	86-73-7	1,800		20	200	1
04688	Hexachlorobenzene	118-74-1	2,000		20	200	1
04688	Hexachlorobutadiene	87-68-3	1,800		79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	1,500		200	590	1
04688	Hexachloroethane	67-72-1	1,500		20	200	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		20	200	1
04688	Isophorone	78-59-1	1,800		20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298918
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,800	20	200	1
04688	2-Methylnaphthalene	91-57-6	1,700	20	200	1
04688	2-Methylphenol	95-48-7	1,800	39	200	1
04688	4-Methylphenol	106-44-5	1,700	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,800	20	200	1
04688	2-Nitroaniline	88-74-4	2,000	20	200	1
04688	3-Nitroaniline	99-09-2	1,700	39	200	1
04688	4-Nitroaniline	100-01-6	1,300	79	200	1
04688	Nitrobenzene	98-95-3	1,900	20	200	1
04688	2-Nitrophenol	88-75-5	1,900	20	200	1
04688	4-Nitrophenol	100-02-7	1,500	200	590	1
04688	N-Nitrosodimethylamine	62-75-9	1,800	39	200	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	2,100	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,900	20	200	1
04688	Pentachlorophenol	87-86-5	1,400	200	590	1
04688	Phenanthrene	85-01-8	1,900	20	200	1
04688	Phenol	108-95-2	1,700	20	200	1
04688	Pyrene	129-00-0	2,000	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,900	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	2,000	39	200	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33	0.79	2.0	1
10138	Acenaphthylene	208-96-8	32	0.39	2.0	1
10138	Anthracene	120-12-7	35	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	37	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	36	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	41	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	37	0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	54	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	42	7.1	21	1
10138	Chrysene	218-01-9	37	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	34	0.79	2.0	1
10138	Diethylphthalate	84-66-2	35	7.1	21	1
10138	Dimethylphthalate	131-11-3	34	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41	7.1	21	1
10138	Fluoranthene	206-44-0	38	0.79	2.0	1
10138	Fluorene	86-73-7	34	0.79	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298918
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	34		0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	36		0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	32		0.79	2.0	1
10138	Naphthalene	91-20-3	32		0.79	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	31		0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	42		7.1	21	1
10138	Phenanthrene	85-01-8	34		0.79	2.0	1
10138	Pyrene	129-00-0	34		0.79	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.8		1.4	4.2	1
10401	Dalapon	75-99-0	6.1	J	5.2	11	1
10401	2,4-DB	94-82-6	5.7		0.73	2.0	1
10401	Dicamba	1918-00-9	0.72	J	0.47	1.4	1
10401	Dinoseb	88-85-7	2.6	J	0.95	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.6		0.95	2.0	1
10401	MCPA	94-74-6	870		90	300	1
10401	MCPP (Mecoprop)	93-65-2	920		89	300	1
10401	2,4,5-T	93-76-5	0.28		0.097	0.20	1
10401	2,4,5-TP	93-72-1	0.66		0.089	0.20	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.1		0.078	0.20	1
01363	Alpha BHC	319-84-6	1.3		0.040	0.20	1
01363	Beta BHC	319-85-7	0.96		0.071	0.20	1
01363	Gamma BHC - Lindane	58-89-9	1.2		0.040	0.20	1
01363	Chlordane	57-74-9	0.95	U	0.95	4.0	1
01363	p,p-DDD	72-54-8	1.9		0.078	0.40	1
01363	p,p-DDE	72-55-9	3.4		0.078	0.40	1
01363	p,p-DDT	50-29-3	3.0		0.078	0.40	1
01363	Delta BHC	319-86-8	1.3		0.043	0.20	1
01363	Dieldrin	60-57-1	2.6		0.078	0.40	1
01363	Endosulfan I	959-98-8	0.99		0.052	0.20	1
01363	Endosulfan II	33213-65-9	1.7		0.078	0.40	1
01363	Endosulfan Sulfate	1031-07-8	1.6		0.078	0.40	1
01363	Endrin	72-20-8	1.7		0.078	0.40	1
01363	Endrin Aldehyde	7421-93-4	2.0		0.078	0.40	1
01363	Endrin Ketone	53494-70-5	1.5		0.078	0.40	1
01363	Heptachlor	76-44-8	1.4		0.071	0.20	1
01363	Heptachlor Epoxide	1024-57-3	0.86		0.040	0.20	1
01363	Methoxychlor	72-43-5	11		0.40	2.0	1
01363	Mirex	2385-85-5	0.078	U	0.078	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298918
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	19		0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	24		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,900		5.89	23.4	1
07914	Boron	7440-42-8	255		1.04	5.86	1
01650	Calcium	7440-70-2	34,000		7.18	23.4	1
01654	Iron	7439-89-6	34,000		27.6	117	5
01656	Lithium	7439-93-2	147		0.26	2.3	1
01657	Magnesium	7439-95-4	8,980		2.98	11.7	1
06958	Manganese	7439-96-5	470		0.0914	0.586	1
10145	Phosphorus	7723-14-0	797		0.656	11.7	1
01662	Potassium	7440-09-7	9,300		21.1	58.6	1
01667	Sodium	7440-23-5	1,280		43.7	117	1
07968	Strontium	7440-24-6	182		0.0726	0.586	1
06969	Tin	7440-31-5	389		1.17	11.7	1
06970	Titanium	7440-32-6	1,710		0.445	1.17	1
10146	Zirconium	7440-67-7	93.0		0.984	5.86	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.802		0.0696	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.11		0.0928	0.464	2
06126	Barium	7440-39-3	130		0.125	0.464	2
06127	Beryllium	7440-41-7	1.46		0.0186	0.116	2
06128	Cadmium	7440-43-9	1.55		0.0464	0.116	2
06131	Chromium	7440-47-3	40.3		0.139	0.464	2
06132	Cobalt	7440-48-4	65.0		0.0232	0.116	2
06133	Copper	7440-50-8	29.4		0.0766	0.464	2
06135	Lead	7439-92-1	17.1		0.0121	0.232	2
06138	Molybdenum	7439-98-7	11.6		0.0580	0.116	2
06139	Nickel	7440-02-0	32.3		0.116	0.464	2
06141	Selenium	7782-49-2	2.44		0.0464	0.464	2
06142	Silver	7440-22-4	11.6		0.0139	0.116	2
06145	Thallium	7440-28-0	0.793		0.0348	0.116	2
06148	Vanadium	7440-62-2	68.6		0.0255	0.116	2
06149	Zinc	7440-66-6	91.5		0.650	3.48	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298918
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.205	0.0034	0.117	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 13:30	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 12:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/06/2011 21:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111530027A	06/09/2011 01:34	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510015A	06/04/2011 13:37	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111530027A	06/03/2011 03:30	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510015A	05/31/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111510018A	05/31/2011 20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 14:04	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:28	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 02:41	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298918
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 02:41	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 02:41	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 02:41	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298919
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,500		5.72	22.8	1
07914	Boron	7440-42-8	22.5		1.01	5.69	1
01650	Calcium	7440-70-2	30,500		6.98	22.8	1
01654	Iron	7439-89-6	34,100		26.8	114	5
01656	Lithium	7439-93-2	24.7		0.25	2.3	1
01657	Magnesium	7439-95-4	8,100		2.89	11.4	1
06958	Manganese	7439-96-5	428		0.0888	0.569	1
10145	Phosphorus	7723-14-0	689		0.637	11.4	1
01662	Potassium	7440-09-7	7,430		20.5	56.9	1
01667	Sodium	7440-23-5	117		42.4	114	1
07968	Strontium	7440-24-6	68.8		0.0706	0.569	1
06969	Tin	7440-31-5	2.67	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,250		0.432	1.14	1
10146	Zirconium	7440-67-7	2.90	J	0.956	5.69	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.562		0.0696	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.33		0.0928	0.464	2
06126	Barium	7440-39-3	111		0.125	0.464	2
06127	Beryllium	7440-41-7	0.844		0.0186	0.116	2
06128	Cadmium	7440-43-9	0.498		0.0464	0.116	2
06131	Chromium	7440-47-3	27.5		0.139	0.464	2
06132	Cobalt	7440-48-4	12.2		0.0232	0.116	2
06133	Copper	7440-50-8	21.0		0.0766	0.464	2
06135	Lead	7439-92-1	17.8		0.0121	0.232	2
06138	Molybdenum	7439-98-7	1.38		0.0580	0.116	2
06139	Nickel	7440-02-0	24.9		0.116	0.464	2
06141	Selenium	7782-49-2	0.559		0.0464	0.464	2
06142	Silver	7440-22-4	0.0369	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.353		0.0348	0.116	2
06148	Vanadium	7440-62-2	57.2		0.0255	0.116	2
06149	Zinc	7440-66-6	90.5		0.650	3.48	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0083	J	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	J	0.95	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298919
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.08	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/08/2011 18:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 13:51	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 02:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 02:35	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 02:35	David K Beck	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298919
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--201 SDG#: DE164-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 02:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 10:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/08/2011 14:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11159243201A	06/09/2011 13:24	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11153039401A	06/02/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298920
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--205 SDG#: DE164-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298920
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--205 SDG#: DE164-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.84	J	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	9.5	J	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	3.5		0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	1.4	J	0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1
10138	Naphthalene	91-20-3	1.1	J	0.78	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.98	J	0.78	1.9	1
10138	Pyrene	129-00-0	1.1	J	0.78	1.9	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.1	U	5.1	10	1
10401	2,4-DB	94-82-6	1.1	U	1.1	2.0	1
10401	Dicamba	1918-00-9	0.46	U	0.46	1.4	1
10401	Dinoseb	88-85-7	0.92	U	0.92	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U	0.92	2.0	1
10401	MCPA	94-74-6	88	U	88	290	1
10401	MCPP (Mecoprop)	93-65-2	87	U	87	290	1
10401	2,4,5-T	93-76-5	0.095	U	0.095	0.20	1
10401	2,4,5-TP	93-72-1	0.087	U	0.087	0.20	1

Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298920
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--205 SDG#: DE164-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19	1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19	1
01363	Chlordane	57-74-9	3.6	J	0.93	4.0	1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40	1
01363	p,p-DDE	72-55-9	0.63		0.077	0.40	1
01363	p,p-DDT	50-29-3	1.7		0.077	0.40	1
01363	Delta BHC	319-86-8	0.24		0.042	0.19	1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40	1
01363	Endrin	72-20-8	0.077	U	0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.40	1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.40	1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.19	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9	1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.
Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.7	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.7	2
10225	Aroclor 5460	11126-42-4	2.3	U	2.3	7.7	2
10225	PCB-1016	12674-11-2	0.77	U	0.77	4.0	2
10225	PCB-1221	11104-28-2	0.77	U	0.77	4.0	2
10225	PCB-1232	11141-16-5	0.77	U	0.77	4.0	2
10225	PCB-1242	53469-21-9	0.77	U	0.77	4.0	2
10225	PCB-1248	12672-29-6	0.77	U	0.77	4.0	2
10225	PCB-1254	11097-69-1	3.5	J	0.77	4.0	2
10225	PCB-1260	11096-82-5	3.0	J	0.91	4.0	2
10225	PCB-1262	37324-23-5	0.77	U	0.77	4.0	2
10225	PCB-1268	11100-14-4	0.77	U	0.77	4.0	2

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,700		5.80	23.1	1
07914	Boron	7440-42-8	22.1		1.03	5.77	1
01650	Calcium	7440-70-2	23,000		7.07	23.1	1
01654	Iron	7439-89-6	34,200		27.2	115	5

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298920
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--205 SDG#: DE164-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.1		0.25	2.3	1
01657	Magnesium	7439-95-4	8,210		2.93	11.5	1
06958	Manganese	7439-96-5	445		0.0900	0.577	1
10145	Phosphorus	7723-14-0	742		0.646	11.5	1
01662	Potassium	7440-09-7	8,230		20.8	57.7	1
01667	Sodium	7440-23-5	109	J	43.0	115	1
07968	Strontium	7440-24-6	55.8		0.0715	0.577	1
06969	Tin	7440-31-5	2.69	J	1.15	11.5	1
06970	Titanium	7440-32-6	1,270		0.439	1.15	1
10146	Zirconium	7440-67-7	1.32	J	0.969	5.77	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.290		0.0699	0.233	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.23		0.0932	0.466	2
06126	Barium	7440-39-3	114		0.126	0.466	2
06127	Beryllium	7440-41-7	0.718		0.0186	0.117	2
06128	Cadmium	7440-43-9	0.398		0.0466	0.117	2
06131	Chromium	7440-47-3	29.1		0.140	0.466	2
06132	Cobalt	7440-48-4	10.5		0.0233	0.117	2
06133	Copper	7440-50-8	18.5		0.0769	0.466	2
06135	Lead	7439-92-1	13.5		0.0121	0.233	2
06138	Molybdenum	7439-98-7	0.504		0.0583	0.117	2
06139	Nickel	7440-02-0	21.2		0.117	0.466	2
06141	Selenium	7782-49-2	0.300	J	0.0466	0.466	2
06142	Silver	7440-22-4	0.0388	J	0.0140	0.117	2
06145	Thallium	7440-28-0	0.383		0.0350	0.117	2
06148	Vanadium	7440-62-2	54.6		0.0256	0.117	2
06149	Zinc	7440-66-6	81.8		0.653	3.50	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0137	J	0.0033	0.116	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U	0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.01		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298920
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--205 SDG#: DE164-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 21:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 13:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 04:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111530027A	06/09/2011 03:27	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510015A	06/04/2011 13:56	Richard A Shober	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111530027A	06/03/2011 03:30	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510015A	05/31/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111510018A	05/31/2011 20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/08/2011 19:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 14:20	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 02:50	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298920
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--205 SDG#: DE164-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 02:50	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 02:50	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 02:50	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 18:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/08/2011 15:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11159243201A	06/09/2011 13:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11153039401A	06/02/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298921
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP8 SDG#: DE164-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	20	390	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298921
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP8 SDG#: DE164-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.81	J	0.78	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	4.0		0.78	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0	1
10138	Butylbenzylphthalate	85-68-7	11	J	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	1.4	J	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	1.3	J	0.78	2.0	1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0	1
10138	Naphthalene	91-20-3	0.89	J	0.78	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	1.0	J	0.78	2.0	1
10138	Pyrene	129-00-0	0.97	J	0.78	2.0	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2	1
10401	Dalapon	75-99-0	5.2	U	5.2	11	1
10401	2,4-DB	94-82-6	0.73	U	0.73	2.0	1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4	1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0	1
10401	MCPA	94-74-6	970	U	970	970	1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290	1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20	1
10401	2,4,5-TP	93-72-1	0.088	U	0.088	0.20	1

Due to interfering peaks on the chromatogram, the values reported for MCPA represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298921
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP8 SDG#: DE164-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.077	U	0.077	0.19	1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.19	1
01363	Beta BHC	319-85-7	0.070	U	0.070	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.19	1
01363	Chlordane	57-74-9	1.8	J	0.93	4.0	1
01363	p,p-DDD	72-54-8	0.077	U	0.077	0.40	1
01363	p,p-DDE	72-55-9	1.0		0.077	0.40	1
01363	p,p-DDT	50-29-3	1.3		0.077	0.40	1
01363	Delta BHC	319-86-8	0.14	J	0.042	0.19	1
01363	Dieldrin	60-57-1	0.077	U	0.077	0.40	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.20	J	0.077	0.40	1
01363	Endosulfan Sulfate	1031-07-8	0.077	U	0.077	0.40	1
01363	Endrin	72-20-8	0.077	U	0.077	0.40	1
01363	Endrin Aldehyde	7421-93-4	0.14	J	0.077	0.40	1
01363	Endrin Ketone	53494-70-5	0.077	U	0.077	0.40	1
01363	Heptachlor	76-44-8	0.070	U	0.070	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.19	1
01363	Methoxychlor	72-43-5	0.40	U	0.40	1.9	1
01363	Mirex	2385-85-5	0.077	U	0.077	0.40	1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.7	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	4.7		0.39	2.0	1
10225	PCB-1260	11096-82-5	2.8		0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		5.73	22.8	1
07914	Boron	7440-42-8	21.4		1.01	5.70	1
01650	Calcium	7440-70-2	32,900		6.99	22.8	1
01654	Iron	7439-89-6	33,000		26.8	114	5
01656	Lithium	7439-93-2	23.7		0.25	2.3	1
01657	Magnesium	7439-95-4	7,980		2.89	11.4	1
06958	Manganese	7439-96-5	418		0.0889	0.570	1
10145	Phosphorus	7723-14-0	694		0.638	11.4	1
01662	Potassium	7440-09-7	7,370		20.5	57.0	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298921
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP8 SDG#: DE164-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	116		42.5	114	1
07968	Strontium	7440-24-6	69.6		0.0707	0.570	1
06969	Tin	7440-31-5	2.67	J	1.14	11.4	1
06970	Titanium	7440-32-6	1,180		0.433	1.14	1
10146	Zirconium	7440-67-7	1.06	J	0.957	5.70	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.300		0.0697	0.232	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.34		0.0930	0.465	2
06126	Barium	7440-39-3	119		0.126	0.465	2
06127	Beryllium	7440-41-7	0.694		0.0186	0.116	2
06128	Cadmium	7440-43-9	0.393		0.0465	0.116	2
06131	Chromium	7440-47-3	29.5		0.139	0.465	2
06132	Cobalt	7440-48-4	10.4		0.0232	0.116	2
06133	Copper	7440-50-8	18.5		0.0767	0.465	2
06135	Lead	7439-92-1	13.7		0.0121	0.232	2
06138	Molybdenum	7439-98-7	0.504		0.0581	0.116	2
06139	Nickel	7440-02-0	21.0		0.116	0.465	2
06141	Selenium	7782-49-2	0.314	J	0.0465	0.465	2
06142	Silver	7440-22-4	0.0348	J	0.0139	0.116	2
06145	Thallium	7440-28-0	0.380		0.0349	0.116	2
06148	Vanadium	7440-62-2	55.1		0.0256	0.116	2
06149	Zinc	7440-66-6	78.8		0.651	3.49	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0166	J	0.0033	0.114	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.8		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298921
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP8 SDG#: DE164-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 21:53	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11152SLH026	06/15/2011 14:19	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11152SLH026	06/02/2011 07:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111510018A	06/07/2011 04:34	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111530027A	06/09/2011 03:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111510015A	06/04/2011 14:14	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111530027A	06/03/2011 03:30	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111510015A	05/31/2011 18:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111510018A	05/31/2011 20:45	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111575708002	06/08/2011 19:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111575708002	06/07/2011 14:27	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111575708002	06/07/2011 08:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06126	Barium	SW-846 6020	1	111571026005D	06/08/2011 02:59	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298921
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--DP8 SDG#: DE164-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06133	Copper	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06135	Lead	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026005C	06/08/2011 02:59	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026005B	06/08/2011 02:59	David K Beck	2
06142	Silver	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026005A	06/08/2011 02:59	David K Beck	2
00159	Mercury	SW-846 7471A	1	111575711001	06/07/2011 20:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708002	06/06/2011 19:04	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026005	06/06/2011 19:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711001	06/06/2011 10:22	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11153373202A	06/04/2011 19:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11154373204A	06/08/2011 16:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11159243201A	06/09/2011 13:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11153373202A	06/02/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11154373204A	06/03/2011 17:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11153039401A	06/02/2011 21:30	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: EB07-SA5DN-SS-052511 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298922
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB7 SDG#: DE164-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	64	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	11	U	11	32	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	16	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: EB07-SA5DN-SS-052511 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298922
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB7 SDG#: DE164-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0098	U	0.0098	0.049	1
10137	Acenaphthylene	208-96-8	0.0098	U	0.0098	0.049	1
10137	Anthracene	120-12-7	0.0098	U	0.0098	0.049	1
10137	Benzo(a)anthracene	56-55-3	0.0098	U	0.0098	0.049	1
10137	Benzo(a)pyrene	50-32-8	0.0098	U	0.0098	0.049	1
10137	Benzo(b)fluoranthene	205-99-2	0.0098	U	0.0098	0.049	1
10137	Benzo(g,h,i)perylene	191-24-2	0.0098	U	0.0098	0.049	1
10137	Benzo(k)fluoranthene	207-08-9	0.0098	U	0.0098	0.049	1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.98	1
10137	Di-n-butylphthalate	84-74-2	0.063	J	0.049	0.98	1
10137	Chrysene	218-01-9	0.0098	U	0.0098	0.049	1
10137	Dibenz(a,h)anthracene	53-70-3	0.0098	U	0.0098	0.049	1
10137	Diethylphthalate	84-66-2	0.049	U	0.049	0.98	1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.98	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.21	J	0.049	0.98	1
10137	Fluoranthene	206-44-0	0.0098	U	0.0098	0.049	1
10137	Fluorene	86-73-7	0.0098	U	0.0098	0.049	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0098	U	0.0098	0.049	1
10137	1-Methylnaphthalene	90-12-0	0.028	J	0.0098	0.049	1
10137	2-Methylnaphthalene	91-57-6	0.028	J	0.0098	0.049	1
10137	Naphthalene	91-20-3	0.16		0.029	0.049	1
10137	N-Nitrosodimethylamine	62-75-9	0.0098	U	0.0098	0.049	1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.98	1
10137	Phenanthrene	85-01-8	0.0098	U	0.0098	0.049	1
10137	Pyrene	129-00-0	0.0098	U	0.0098	0.049	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.53	1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3	1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1	1
10407	Dicamba	1918-00-9	0.084	U	0.084	0.32	1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.53	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.53	1
10407	MCPA	94-74-6	320	U	320	1,100	1
10407	MCPP	93-65-2	53	U	53	210	1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.053	1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.053	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010	1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.010	1
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.010	1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.010	1
00177	Chlordane	57-74-9	0.12	U	0.12	0.51	1

*=This limit was used in the evaluation of the final result

Sample Description: EB07-SA5DN-SS-052511 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298922
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB7 SDG#: DE164-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	
00177	p,p-DDD	72-54-8	0.0051 U	0.0051	0.020	1
00177	p,p-DDE	72-55-9	0.0051 U	0.0051	0.020	1
00177	p,p-DDT	50-29-3	0.0051 U	0.0051	0.020	1
00177	Delta BHC	319-86-8	0.0029 U	0.0029	0.010	1
00177	Dieldrin	60-57-1	0.0054 U	0.0054	0.020	1
00177	Endosulfan I	959-98-8	0.0044 U	0.0044	0.010	1
00177	Endosulfan II	33213-65-9	0.015 U	0.015	0.020	1
00177	Endosulfan Sulfate	1031-07-8	0.0059 U	0.0059	0.020	1
00177	Endrin	72-20-8	0.0082 U	0.0082	0.020	1
00177	Endrin Aldehyde	7421-93-4	0.020 U	0.020	0.10	1
00177	Endrin Ketone	53494-70-5	0.0051 U	0.0051	0.020	1
00177	Heptachlor	76-44-8	0.0026 U	0.0026	0.010	1
00177	Heptachlor Epoxide	1024-57-3	0.0023 U	0.0023	0.010	1
00177	Methoxychlor	72-43-5	0.030 U	0.030	0.10	1
00177	Mirex	2385-85-5	0.086 U	0.086	0.25	1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.51	1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.51	1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.51	1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.51	1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.51	1
10227	PCB-1232	11141-16-5	0.20 U	0.20	0.51	1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.51	1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.51	1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.51	1
10227	PCB-1260	11096-82-5	0.15 U	0.15	0.51	1
10227	PCB-1262	37324-23-5	0.20 U	0.20	0.51	1
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.51	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.0010 J	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050	1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1

*=This limit was used in the evaluation of the final result

Sample Description: EB07-SA5DN-SS-052511 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298922
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB7 SDG#: DE164-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000065 J	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.4	0.010	0.010	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11151WAF026	06/09/2011 01:27	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11151WAG026	06/15/2011 16:32	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11151WAF026	06/01/2011 03:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB07-SA5DN-SS-052511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298922
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB7 SDG#: DE164-05EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10466	BNA Water Extraction SIM	SW-846 3510C	1	11151WAG026	05/31/2011 15:50	Nicholas W Shroyer	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111510016A	06/06/2011 18:02	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111460040A	06/03/2011 07:14	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111460041A	05/28/2011 14:47	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111460041A	05/27/2011 14:00	Kelli M Barto	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111460040A	05/27/2011 14:00	Kelli M Barto	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111510016A	05/31/2011 20:45	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
08014	Boron	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
01750	Calcium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
01754	Iron	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
01756	Lithium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
07058	Manganese	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
01762	Potassium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
01767	Sodium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
08068	Strontium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
07069	Tin	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
07070	Titanium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111471848003	05/31/2011 23:10	John P Hook	1
06024	Antimony	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111476050003D	06/01/2011 10:05	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111476050003C	06/01/2011 10:05	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111476050003B	06/01/2011 10:05	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111536050006A	06/08/2011 00:22	David K Beck	1
06048	Vanadium	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111476050003A	06/01/2011 10:05	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111525713004	06/02/2011 23:33	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111471848003	05/31/2011 10:53	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111476050003	05/31/2011 10:48	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	111536050006	06/03/2011 09:32	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111525713004	06/01/2011 16:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11146196901C	05/27/2011 08:33	Ashley M Adams	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB07-SA5DN-SS-052511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298922
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB7 SDG#: DE164-05EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 16:37	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11146141401A	05/26/2011 13:56	Parker D Lindstrom	1
00200	18b pH by 9040B	SW-846 9040B	1	11152020001A	06/01/2011 19:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB08-SA5DN-SB-052511 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5DN-SB-052511

LLI Sample # WW 6298923
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:00

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB8 SDG#: DE164-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Sample Description: EB08-SA5DN-SB-052511 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5DN-SB-052511

LLI Sample # WW 6298923
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:00

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB8 SDG#: DE164-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	J	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.53	1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.53	1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.53	1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.53	1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.53	1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.53	1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.53	1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.53	1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.53	1
10227	PCB-1260	11096-82-5	0.16	U	0.16	0.53	1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.53	1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.53	1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200	1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500	1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200	1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200	1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100	1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050	1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100	1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500	1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00	1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB08-SA5DN-SB-052511 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5DN-SB-052511

LLI Sample # WW 6298923
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:00

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB8 SDG#: DE164-06EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200	1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100	1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.000052 J	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020	1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.3	0.010	0.010	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: EB08-SA5DN-SB-052511 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5DN-SB-052511

LLI Sample # WW 6298923
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:00

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB8 SDG#: DE164-06EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111471AA	05/27/2011 22:49	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111461AA	05/26/2011 14:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111461AA	05/26/2011 14:02	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111471AA	05/27/2011 22:49	Kevin A Sposito	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111460041A	05/28/2011 15:06	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111460041A	05/27/2011 14:00	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
08014	Boron	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
01750	Calcium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
01754	Iron	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
01756	Lithium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
07058	Manganese	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
01762	Potassium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
01767	Sodium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
08068	Strontium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
07069	Tin	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
07070	Titanium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111471848003	05/31/2011 23:13	John P Hook	1
06024	Antimony	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111476050003D	06/01/2011 10:08	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111476050003C	06/01/2011 10:08	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111476050003B	06/01/2011 10:08	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111536050006A	06/08/2011 00:25	David K Beck	1
06048	Vanadium	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111476050003A	06/01/2011 10:08	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111525713004	06/02/2011 23:34	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111471848003	05/31/2011 10:53	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111476050003	05/31/2011 10:48	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	111536050006	06/03/2011 09:32	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111525713004	06/01/2011 16:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11146196901C	05/27/2011 08:48	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 16:59	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB08-SA5DN-SB-052511 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5DN-SB-052511

LLI Sample # WW 6298923
LLI Group # 1248710
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:00

Submitted: 05/26/2011 10:20
Reported: 06/21/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--EB8 SDG#: DE164-06EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11146141401A	05/26/2011 14:08	Parker D Lindstrom	1
00200	18b pH by 9040B	SW-846 9040B	1	11152020001A	06/01/2011 19:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E111461AA	Sample number(s): 6298923									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	97	106	80-123	9	30
Batch number: L111471AA	Sample number(s): 6298923									
Acetone	6	U	6.	20	ug/l	134	111	49-234	19	30
Benzene	0.5	U	0.5	5	ug/l	97	98	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	92	93	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	78	80	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	102	103	44-120	1	30
2-Butanone	3	U	3.	10	ug/l	105	97	66-151	8	30
n-Butylbenzene	1	U	1.	5	ug/l	96	97	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	94	78-120	4	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	93	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	92	93	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	103	103	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	92	93	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	96	97	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	99	100	60-129	1	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	94	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	94	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	92	91	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	87	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	87	87	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	94	95	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	90	90	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	96	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	97	96	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	90	90	74-123	0	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	80-120	2	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	95	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	95	97	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	88	89	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	91	93	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	91	91	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	87	91	79-120	5	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	88	90	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	105	101	77-120	5	30
Hexachlorobutadiene	2	U	2.	5	ug/l	81	84	58-120	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Hexanone	3	U	3.	10	ug/l	93	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	94	96	77-120	2	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	91	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	92	92	76-120	0	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	90	90	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	95	96	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	95	93	80-120	3	30
Styrene	1	U	1.	5	ug/l	91	94	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	89	92	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	100	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	90	91	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	95	96	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	89	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	82	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	92	92	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	101	64-129	2	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	95	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	96	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	93	94	75-120	0	30
Vinyl Chloride	1	U	1.	5	ug/l	97	99	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	95	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	92	93	80-120	1	30
Batch number: 11151WAF026	Sample number(s): 6298922									
Aniline	1	U	1.	5	ug/l	76	86	49-101	12	30
Benzidine	20	U	20.	60	ug/l	70	82	34-117	16	30
Benzoic acid	6	U	6.	15	ug/l	22	53	10-69	83*	30
Benzyl alcohol	5	U	5.	15	ug/l	91	95	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	102	82-117	2	30
Carbazole	1	U	1.	5	ug/l	100	99	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	95	99	70-123	4	30
4-Chloroaniline	1	U	1.	5	ug/l	76	84	42-124	10	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	99	103	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	93	100	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	97	102	62-127	6	30
2-Chloronaphthalene	2	U	2.	5	ug/l	74	72	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	96	103	77-108	7	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	97	101	82-111	4	30
Dibenzofuran	1	U	1.	5	ug/l	99	100	83-108	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	84	85	55-118	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	84	84	50-119	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	83	83	53-119	0	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	77	80	49-111	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	98	104	80-109	6	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	97	100	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	106	112	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	101	99	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	87	99	52-131	13	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97	98	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	94	99	85-115	5	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	108	109	78-116	1	30
Hexachlorobenzene	1	U	1.	5	ug/l	95	103	81-118	8	30
Hexachlorobutadiene	1	U	1.	5	ug/l	90	89	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	54	64	36-118	16	30
Hexachloroethane	1	U	1.	5	ug/l	79	80	52-113	2	30
Isophorone	1	U	1.	5	ug/l	99	103	74-117	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylphenol	1	U	1.	5	ug/l	90	96	64-101	6	30
4-Methylphenol	2	U	2.	5	ug/l	81	91	61-103	11	30
2-Nitroaniline	1	U	1.	5	ug/l	98	99	83-116	0	30
3-Nitroaniline	1	U	1.	5	ug/l	94	93	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	73	76	59-100	4	30
Nitrobenzene	1	U	1.	5	ug/l	96	101	75-109	4	30
2-Nitrophenol	1	U	1.	5	ug/l	98	101	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	47	51	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	95	101	69-110	6	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	97	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	89	101	53-110	12	30
Phenol	1	U	1.	5	ug/l	47	53	21-67	11	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	93	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	99	108	81-113	9	30
Batch number: 11151WAG026	Sample number(s): 6298922									
Acenaphthene	0.010	U	0.010	0.050	ug/l	88	86	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	83	81	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	89	85	66-111	5	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	91	88	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	88	85	60-127	3	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	100	90	69-123	10	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	91	88	57-131	3	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	88	93	59-130	5	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	100	100	40-138	0	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	97	94	74-131	3	30
Chrysene	0.010	U	0.010	0.050	ug/l	89	87	76-116	3	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	92	89	55-134	3	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	85	83	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	76	76	40-119	1	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	101	97	57-154	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	92	89	75-116	4	30
Fluorene	0.010	U	0.010	0.050	ug/l	90	88	75-114	3	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	91	89	69-124	3	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	90	86	71-117	4	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	80	77	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	87	83	72-109	5	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	61	36-89	8	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	111	109	57-145	2	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	89	84	76-111	5	30
Pyrene	0.010	U	0.010	0.050	ug/l	89	86	69-118	3	30
Batch number: 11152SLF026	Sample number(s): 6298915-6298918,6298920-6298921									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	102		75-122		
Aniline	170 U		170.	500	ug/kg	73		34-94		
Anthracene	17	U	17.	170	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	58		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	90		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	92		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	89		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	96		67-125		
Benzoic acid	170 U		170.	500	ug/kg	98		62-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	108		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	102		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	56		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	90		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Chrysene	17	U	17.	170	ug/kg	97		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	90		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	47		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	98		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	102		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	107		77-111		
bis(2-Ethylhexyl)phthalate	19	J	17.	330	ug/kg	106		75-117		
Fluoranthene	17	U	17.	170	ug/kg	100		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	96		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	99		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	89		64-119		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
Naphthalene	17	U	17.	170	ug/kg	94		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	83		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	84		60-106		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	103		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	108		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	83		51-117		
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	85		58-112		
Pyrene	17	U	17.	170	ug/kg	107		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	101		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 11152SLH026	Sample number(s): 6298915-6298918,6298920-6298921									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	81		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	73		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	82		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	87		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	90		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	95		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	90		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	91		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	83		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	84		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	91		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	89		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	83		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	91		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	77		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	78		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	71		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	98		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	84		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	88		56-121		
Batch number: 111510016A	Sample number(s): 6298922									
2,4-D	0.16	U	0.16	0.50	ug/l	112	104	73-157	7	30
Dalapon	0.25	U	0.25	1.3	ug/l	90	86	40-100	5	30
2,4-DB	0.30	U	0.30	1.0	ug/l	104	96	65-130	8	30
Dicamba	0.080	U	0.080	0.30	ug/l	104	96	68-135	8	30
Dinoseb	0.10	U	0.10	0.50	ug/l	79	70	32-91	12	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	128	124	76-170	3	30
MCPA	300 U		300.	1,000	ug/l	106	98	65-128	8	30
MCPP	50	U	50.	200	ug/l	140*	104	67-137	30	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	108	100	63-147	8	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104	100	63-134	4	30
Batch number: 111510018A	Sample number(s): 6298915-6298918,6298920-6298921									
2,4-D	1.2	U	1.2	3.6	ug/kg	89		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	49		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	92		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		62-170		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
MCPA	76	U	76.	250	ug/kg	93		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	79		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	87		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 111460040A	Sample number(s): 6298922									
Aldrin	0.0020	U	0.0020	0.010	ug/l	101	111	54-159	10	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	110	59-146	0	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	103	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	110	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	120	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	116	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	114	114	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	125	125	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	120	120	68-128	0	30
Endosulfan II	0.59		0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	110	115	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	105	52-132	21	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	115	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	130	125	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	120	130*	57-126	8	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	102	112	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	120	52-133	0	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111460041A	Sample number(s): 6298922-6298923									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	72	84	35-84	15	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	100	51-128	4	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	96	102	56-135	6	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111510015A	Sample number(s): 6298915-6298918,6298920-6298921									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	79	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	101		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111530027A	Sample number(s): 6298915-6298918,6298920-6298921									
Aldrin	0.066	U	0.066	0.17	ug/kg	81		44-135		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Alpha BHC	0.034 U	0.034	0.17	ug/kg	84		38-130		
Beta BHC	0.060 U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034 U	0.034	0.17	ug/kg	89		46-127		
Chlordane	0.80 U	0.80	3.4	ug/kg					
p,p-DDD	0.066 U	0.066	0.34	ug/kg	99		60-137		
p,p-DDE	0.066 U	0.066	0.34	ug/kg	90		59-141		
p,p-DDT	0.066 U	0.066	0.34	ug/kg	101		54-130		
Delta BHC	0.036 U	0.036	0.17	ug/kg	89		55-144		
Dieldrin	0.066 U	0.066	0.34	ug/kg	103		65-129		
Endosulfan I	0.044 U	0.044	0.17	ug/kg	99		45-123		
Endosulfan II	0.066 U	0.066	0.34	ug/kg	98		63-127		
Endosulfan Sulfate	0.066 U	0.066	0.34	ug/kg	104		72-138		
Endrin	0.066 U	0.066	0.34	ug/kg	101		62-129		
Endrin Aldehyde	0.066 U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066 U	0.066	0.34	ug/kg	99		69-139		
Heptachlor	0.060 U	0.060	0.17	ug/kg	94		43-124		
Heptachlor Epoxide	0.034 U	0.034	0.17	ug/kg	96		65-131		
Methoxychlor	0.34 U	0.34	1.7	ug/kg	109		59-125		
Mirex	0.066 U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	2.2	6.6	ug/kg					
Batch number: 111471848003	Sample number(s): 6298922-6298923								
Aluminum	0.0834 U	0.0834	0.200	mg/l	99	99	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	93	93	89-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	102	104	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	102	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	101	80-120	1	20
Magnesium	0.0211 J	0.0172	0.100	mg/l	101	103	89-110	1	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	101	102	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	98	99	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	99	103	85-115	4	20
Sodium	0.433 U	0.433	1.00	mg/l	98	99	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	100	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	100	101	90-113	0	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	99	100	80-120	1	20
Batch number: 111476050003A	Sample number(s): 6298922-6298923								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	103	87-110	2	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	107	101	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	107	105	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	100	90-114	6	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	99	98	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	103	101	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	103	101	90-113	2	20
Lead	0.000055 J	0.00005 2	0.0010	mg/l	105	104	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	105	90-113	3	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	106	104	90-115	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	97	98	89-116	1	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	108	101	90-116	7	20
Batch number: 111476050003B	Sample number(s): 6298922-6298923								
Selenium	0.00025 U	0.00025	0.0020	mg/l	108	107	85-114	1	20
Batch number: 111476050003C	Sample number(s): 6298922-6298923								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	104	89-115	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111476050003D	Sample number(s): 6298922-6298923								
Barium	0.00053 U	0.00053	0.0020	mg/l	104	105	88-113	1	20
Batch number: 111525713004	Sample number(s): 6298922-6298923								
Mercury	0.000046 U	0.00004 6	0.00020	mg/l	91	89	80-120	2	20
Batch number: 111536050006A	Sample number(s): 6298922-6298923								
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	100	89-116	3	20
Batch number: 111571026005A	Sample number(s): 6298915-6298921								
Antimony	0.0600 U	0.0600	0.200	mg/kg	111		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	100		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	98		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	104		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	105		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	97		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	105		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	103		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	102		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	93		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	98		81-112		
Batch number: 111571026005B	Sample number(s): 6298915-6298921								
Selenium	0.0400 U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111571026005C	Sample number(s): 6298915-6298921								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	108		78-122		
Batch number: 111571026005D	Sample number(s): 6298915-6298921								
Barium	0.108 U	0.108	0.400	mg/kg	100		81-111		
Batch number: 111575708002	Sample number(s): 6298915-6298921								
Aluminum	5.03 U	5.03	20.0	mg/kg	94		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	103		78-110		
Calcium	6.81 J	6.13	20.0	mg/kg	107		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	98		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	101		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.17 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	100		78-110		
Sodium	37.3 U	37.3	100	mg/kg	102		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	102		86-110		
Tin	1.38 J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	87		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	101		80-120		
Batch number: 111575711001	Sample number(s): 6298915-6298921								
Mercury	0.0028 U	0.0028	0.0987	mg/kg	96		88-123		
Batch number: 11146141401A	Sample number(s): 6298922-6298923								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	108	108	90-110	0	20
Batch number: 11146196901C	Sample number(s): 6298922-6298923								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	101	103	90-110	2	20
Batch number: 11153373202A	Sample number(s): 6298915-6298917,6298919-6298921									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11154373204A	Sample number(s): 6298915-6298917,6298919-6298921									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11154621701A	Sample number(s): 6298922-6298923									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11159243201A	Sample number(s): 6298915-6298917,6298919-6298921									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11152020001A	Sample number(s): 6298922-6298923									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11153039401A	Sample number(s): 6298915-6298916,6298919-6298921									
18a pH by 9045C						100		95-105		
Batch number: 11157162401B	Sample number(s): 6298915-6298921									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11152SLF026	Sample number(s): 6298915-6298918,6298920-6298921 UNSPK: 6298916								
Acenaphthene	101	96	75-115	4	30				
Acenaphthylene	102	98	81-110	4	30				
Aniline	70	66	35-95	7	30				
Anthracene	101	98	75-115	3	30				
Benzidine	21*	20*	35-141	2	30				
Benzo(a)anthracene	102	98	65-122	3	30				
Benzo(a)pyrene	91	87	57-126	5	30				
Benzo(b)fluoranthene	89	84	59-125	6	30				
Benzo(g,h,i)perylene	94	91	59-127	3	30				
Benzo(k)fluoranthene	94	86	56-132	9	30				
Benzoic acid	49	37	10-173	27	30				
Benzyl alcohol	98	92	67-115	6	30				
4-Bromophenyl-phenylether	103	102	67-129	2	30				
Butylbenzylphthalate	111	106	73-134	5	30				
Di-n-butylphthalate	102	101	67-123	2	30				
Carbazole	96	92	64-120	4	30				
4-Chloro-3-methylphenol	94	89	76-110	6	30				
4-Chloroaniline	60	62	23-95	3	30				
bis(2-Chloroethoxy)methane	98	95	75-104	4	30				
bis(2-Chloroethyl)ether	94	90	60-116	4	30				
bis(2-Chloroisopropyl)ether	91	87	55-142	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chloronaphthalene	73	71	50-141	3	30				
2-Chlorophenol	102	96	73-121	6	30				
4-Chlorophenyl-phenylether	95	92	80-109	3	30				
Chrysene	101	95	62-128	6	30				
Dibenz(a,h)anthracene	96	92	65-125	4	30				
Dibenzofuran	99	94	71-112	5	30				
1,2-Dichlorobenzene	89	84	66-108	6	30				
1,3-Dichlorobenzene	89	83	63-109	8	30				
1,4-Dichlorobenzene	89	85	70-100	4	30				
3,3'-Dichlorobenzidine	78	78	16-119	0	30				
2,4-Dichlorophenol	100	94	78-117	6	30				
Diethylphthalate	96	93	66-118	4	30				
2,4-Dimethylphenol	100	94	78-110	6	30				
3,5-Dimethylphenol	106	102	70-130	4	30				
Dimethylphthalate	99	96	64-118	4	30				
4,6-Dinitro-2-methylphenol	50	46	24-116	8	30				
2,4-Dinitrophenol	29	24	20-143	18	30				
2,4-Dinitrotoluene	93	89	73-113	5	30				
2,6-Dinitrotoluene	100	93	69-123	7	30				
1,2-Diphenylhydrazine	115	112	71-129	3	30				
bis(2-Ethylhexyl)phthalate	107	105	63-122	2	30				
Fluoranthene	94	87	73-112	7	30				
Fluorene	95	92	77-111	3	30				
Hexachlorobenzene	105	101	77-114	4	30				
Hexachlorobutadiene	100	93	62-120	7	30				
Hexachlorocyclopentadiene	46	37	10-153	21	30				
Hexachloroethane	78	74	57-109	5	30				
Indeno(1,2,3-cd)pyrene	99	90	61-126	9	30				
Isophorone	96	93	73-102	3	30				
1-Methylnaphthalene	96	92	73-112	4	30				
2-Methylnaphthalene	90	88	76-114	3	30				
2-Methylphenol	96	89	75-111	8	30				
4-Methylphenol	92	85	71-111	7	30				
Naphthalene	96	91	72-116	5	30				
2-Nitroaniline	102	99	67-125	2	30				
3-Nitroaniline	90	88	59-122	3	30				
4-Nitroaniline	69	65	52-112	6	30				
Nitrobenzene	99	97	72-106	2	30				
2-Nitrophenol	101	96	74-115	5	30				
4-Nitrophenol	76	75	54-113	2	30				
N-Nitroso-di-n-propylamine	92	88	60-116	4	30				
N-Nitrosodimethylamine	88	91	47-116	3	30				
N-Nitrosodiphenylamine	106	106	86-145	1	30				
Di-n-octylphthalate	104	96	56-126	8	30				
Pentachlorophenol	73	70	28-127	4	30				
Phenanthrene	99	95	65-125	4	30				
Phenol	90	84	58-126	7	30				
Pyrene	104	102	74-126	2	30				
1,2,4-Trichlorobenzene	98	96	72-115	3	30				
2,4,5-Trichlorophenol	99	95	78-109	4	30				
2,4,6-Trichlorophenol	103	101	77-115	2	30				

Batch number: 11152SLH026 Sample number(s): 6298915-6298918,6298920-6298921 UNSPK: 6298916

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	88	85	63-105	4	30				
Acenaphthylene	81	82	67-114	1	30				
Anthracene	89	89	60-122	0	30				
Benzo(a)anthracene	86	91	59-128	5	30				
Benzo(a)pyrene	90	89	45-138	1	30				
Benzo(b)fluoranthene	95	91	43-155	4	30				
Benzo(g,h,i)perylene	63	75	33-141	17	30				
Benzo(k)fluoranthene	87	93	42-144	7	30				
Butylbenzylphthalate	130	136	57-173	5	30				
Di-n-butylphthalate	112	106	65-148	5	30				
Chrysene	92	90	48-134	2	30				
Dibenz(a,h)anthracene	75	87	22-133	16	30				
Diethylphthalate	89	88	70-136	1	30				
Dimethylphthalate	88	87	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	125	105	39-167	18	30				
Fluoranthene	98	92	26-166	6	30				
Fluorene	88	86	66-122	2	30				
Indeno(1,2,3-cd)pyrene	73	84	21-143	14	30				
1-Methylnaphthalene	100	90	72-123	11	30				
2-Methylnaphthalene	91	78	64-103	15	30				
Naphthalene	107*	78	61-102	31*	30				
N-Nitrosodimethylamine	83	78	48-113	7	30				
Di-n-octylphthalate	116	107	40-192	7	30				
Phenanthrene	94	82	12-165	12	30				
Pyrene	80	80	15-153	1	30				
Batch number: 111510018A	Sample number(s): 6298915-6298918,6298920-6298921 UNSPK: 6298916								
2,4-D	92	79	17-180	15	35				
Dalapon	41	25	10-125	50	50				
2,4-DB	60	58	10-201	4	50				
Dicamba	88	73	10-190	18	50				
Dinoseb	24	16	10-46	43*	35				
2,4-DP (Dichlorprop)	105	97	33-178	7	50				
MCPA	85	76	10-213	9	50				
MCPP (Mecoprop)	66	93	10-184	34	50				
2,4,5-T	28	29	10-156	4	35				
2,4,5-TP	73	67	24-141	9	35				
Batch number: 111510015A	Sample number(s): 6298915-6298918,6298920-6298921 UNSPK: 6298916								
PCB-1016	95	97	29-146	2	50				
PCB-1260	108	108	39-149	0	50				
Batch number: 111530027A	Sample number(s): 6298915-6298918,6298920-6298921 UNSPK: 6298916								
Aldrin	62	58	16-126	6	50				
Alpha BHC	70	63	10-129	11	50				
Beta BHC	55	50	14-147	9	50				
Gamma BHC - Lindane	68	61	10-140	10	50				
p,p-DDD	54	48	16-163	11	50				
p,p-DDE	64	62	18-161	3	50				
p,p-DDT	82	40	10-176	46	50				
Delta BHC	64	59	23-140	7	50				
Dieldrin	71	65	19-154	8	50				
Endosulfan I	54	50	16-137	9	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan II	50	44	28-154	12	50				
Endosulfan Sulfate	46	42	21-160	9	50				
Endrin	46	43	11-149	5	50				
Endrin Aldehyde	57	50	10-148	12	35				
Endrin Ketone	42	39	22-165	7	50				
Heptachlor	72	71	13-126	2	50				
Heptachlor Epoxide	48	45	13-157	7	50				
Methoxychlor	58	54	32-147	7	50				
Batch number: 111571026005A	Sample number(s): 6298915-6298921 UNSPK: 6298916 BKG: 6298916								
Antimony	39*	37*	75-125	4	20	0.246	0.475	63* (1)	20
Arsenic	115	117	75-125	1	20	5.41	7.88	37*	20
Beryllium	78	79	75-125	1	20	0.611	0.713	15	20
Cadmium	97	100	75-125	3	20	0.327	0.420	25* (1)	20
Chromium	91	94	75-125	1	20	24.9	23.3	7	20
Cobalt	94	94	75-125	0	20	9.06	10.3	13	20
Copper	91	94	75-125	1	20	15.7	17.8	13	20
Lead	92 (2)	92	75-125	0	20	11.7	15.0	25*	20
Nickel	99	99	75-125	0	20	17.6	21.0	17	20
Silver	98	100	75-125	2	20	0.0390 J	0.0312 J	22* (1)	20
Thallium	95	85	75-125	6	20	0.339	0.298	13 (1)	20
Vanadium	104 (2)	116 (2)	75-125	2	20	46.6	48.4	4	20
Zinc	86 (2)	87 (2)	75-125	0	20	68.8	76.5	11	20
Batch number: 111571026005B	Sample number(s): 6298915-6298921 UNSPK: 6298916 BKG: 6298916								
Selenium	93	92	75-125	1	20	0.267 J	0.473	56* (1)	20
Batch number: 111571026005C	Sample number(s): 6298915-6298921 UNSPK: 6298916 BKG: 6298916								
Molybdenum	95	96	75-125	2	20	0.408	1.16	96* (1)	20
Batch number: 111571026005D	Sample number(s): 6298915-6298921 UNSPK: 6298916 BKG: 6298916								
Barium	92 (2)	107 (2)	75-125	1	20	99.4	93.5	6	20
Batch number: 111575708002	Sample number(s): 6298915-6298921 UNSPK: 6298916 BKG: 6298916								
Aluminum	4015 (2)	3538 (2)	75-125	3	20	23,300	24,100	3	20
Boron	104	100	84-115	4	20	18.5	19.0	2 (1)	20
Calcium	-26 (2)	-94 (2)	75-125	1	20	29,100	25,800	12	20
Iron	-803 (2)	166 (2)	75-125	3	20	28,600	28,800	1	20
Lithium	109	106	82-114	2	20	19.6	20.9	6	20
Magnesium	506 (2)	411 (2)	75-125	2	20	6,780	6,840	1	20
Manganese	88 (2)	50 (2)	75-125	5	20	372	362	3	20
Phosphorus	96 (2)	87 (2)	75-125	1	20	587	582	1	20
Potassium	183 (2)	164 (2)	75-125	2	20	6,230	6,280	1	20
Sodium	101	99	75-125	2	20	102	98.9	3 (1)	20
Strontium	99	93	75-115	4	20	62.2	58.1	7	20
Tin	85	82	80-110	3	20	2.39 J	2.25 J	6 (1)	20
Titanium	464 (2)	429 (2)	75-125	2	20	1,020	1,060	4	20
Zirconium	77	78	75-125	1	20	1.80 J	2.45 J	31* (1)	20
Batch number: 111575711001	Sample number(s): 6298915-6298921 UNSPK: 6298916 BKG: 6298916								
Mercury	105	97	65-135	7	20	0.0139 J	0.0070 J	66* (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11153373202A	Sample number(s): 6298915-6298917,6298919-6298921					UNSPK: 6298916		BKG: 6298916			
11a Anions by 300.0 - Fluoride	75*		80-120			0.80	U	0.98	J	200* (1)	20
Batch number: 11154373204A	Sample number(s): 6298915-6298917,6298919-6298921					UNSPK: 6298916		BKG: 6298916			
7a Perchlorate EPA 314.0	111		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11159243201A	Sample number(s): 6298915-6298917,6298919-6298921					UNSPK: 6298916		BKG: 6298916			
3a Cr VI by EPA 7199	93		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11153039401A	Sample number(s): 6298915-6298916,6298919-6298921					BKG: 6298916					
18a pH by 9045C						8.09		8.08		0	3
Batch number: 11157162401B	Sample number(s): 6298915-6298921					BKG: 6298916					
28a Moisture Content by 160.3						15.5		15.3		1	20
Moisture Content by 160.3						15.5		15.3		1	20
Moisture Content by 160.3						15.5		15.3		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111461AA

	Toluene-d8
6298923	106
Blank	106
LCS	106
LCSD	106
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6298923	104	101	101	98
Blank	103	101	101	99
LCS	103	102	102	100
LCSD	102	102	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11151WAF026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6298922	60	38	98	90	93	87

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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Surrogate Quality Control

Blank	63	42	98	89	91	90
LCS	70	49	94	92	93	88
LCSD	74	52	94	93	95	90
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11151WAG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6298922	91	80	96
Blank	89	88	95
LCS	95	88	92
LCSD	91	87	91
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11152SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6298915	86	92	82	89	94	88
6298916	83	88	81	84	89	85
6298917	91	96	85	92	95	88
6298918	86	91	80	88	93	87
6298920	85	88	87	84	88	85
6298921	90	92	96	88	93	84
Blank	85	90	91	87	87	88
LCS	86	90	92	89	92	90
MS	91	96	85	92	95	88
MSD	86	91	80	88	93	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11152SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6298915	94	83	93
6298916	96	85	93
6298917	102	82	92
6298918	94	82	93
6298920	95	87	95
6298921	97	84	96
Blank	84	81	92
LCS	87	80	94
MS	102	82	92
MSD	94	82	93
Limits:	40-130	45-130	45-135

Analysis Name: 12b Pesticides by 8081A
Batch number: 111460040A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6298922	100	85
Blank	100	88

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Surrogate Quality Control

LCS	98	107
LCSD	102	99
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111460041A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6298922	111	81
6298923	113	102
Blank	116	86
LCS	119	70
LCSD	116	97
Limits:	30-150	30-150

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111510015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6298915	111	97
6298916	113	97
6298917	108	95
6298918	109	103
6298920	115	106
6298921	100	87
Blank	109	101
LCS	118	106
LCSD	100	107
MS	108	95
MSD	109	103
Limits:	53-139	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111510016A

	2,4-Dichlorophenylacetic acid
6298922	89
Blank	91
LCS	110
LCSD	99
Limits:	35-144

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111510018A

	2,4-Dichlorophenylacetic acid
6298915	84
6298916	82
6298917	75
6298918	75
6298920	70

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248710
Reported: 06/21/11 at 12:16 PM

Surrogate Quality Control

6298921	85
Blank	96
LCS	88
MS	75
MSD	75
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 111530027A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6298915	73	62
6298916	78	53
6298917	79	52
6298918	77	85
6298920	75	106
6298921	64	50
Blank	74	110
LCS	78	108
MS	79	52
MSD	77	85
Limits:	50-130	20-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1248710 6298915-23

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
					PRIMARY FOR ALL LOCATIONS										SS ONLY		SECONDARY FOR ALL LOCATIONS										
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X										MS/MSD
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-SS sleeve			X	X																	
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-SS sleeve			X	X																	
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X										
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	2-8 oz jar	X	X			X	X	X	X		X	X										
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	1-SS sleeve			X	X																	
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-SS sleeve			X	X																	
SL-005-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-006-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X										
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-SS sleeve			X	X																	
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-SS sleeve			X	X																	
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-SS sleeve			X	X																	
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-SS sleeve			X	X																	
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X										MS/MSD
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-SS sleeve			X	X																	
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X										
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/25/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/26/11	8695 1442 0913,0924,0935,0946,0957	

13013 1248710 6298915-23

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB07-SA5DN-SS-052511	5.25.11	1230	WATER	NONE	7-1 liter ambers			X	X	X				X	X													
EB07-SA5DN-SS-052511	5.25.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X															
EB07-SA5DN-SS-052511	5.25.11	1230	WATER	HNO3	1-500 mL poly	X																						
EB08-SA5DN-SB-052511	5.25.11	1300	WATER	NONE	5-1 liter ambers				X	X																		
EB08-SA5DN-SB-052511	5.25.11	1300	WATER	NONE	1-500mL ploy		X				X	X	X															
EB08-SA5DN-SB-052511	5.25.11	1300	WATER	HNO3	1-500mL ploy	X																						
EB08-SA5DN-SB-052511	5.25.11	1300	WATER	HCL	6-40 mL Vials											X	X											

Relinquished by: (*Signature*)	Date/Time 05/25/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 5/26/11 1020	Airbill No.(s)	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/26/2011
Group Number: 1248711
SDG: DX091
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-200-SA5DN-SS-0.0-0.5 Soil	6298924
SL-201-SA5DN-SS-0.0-0.5 Soil	6298925
SL-201-SA5DN-SS-0.0-0.5MS Soil	6298926
SL-201-SA5DN-SS-0.0-0.5MSD Soil	6298927
SL-205-SA5DN-SS-0.0-0.5 Soil	6298928
DUP08-SA5DN-QC-052411 Soil	6298929
EB07-SA5DN-SS-052511 Water	6298930
EB08-SA5DN-SB-052511 Water	6298931

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298924
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X200- SDG#: DX091-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298924
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X200- SDG#: DX091-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0303 JBQ	0.0131	1.14	1
11031	12378-PeCDD	40321-76-4	0.0617 JB	0.0191	5.69	1
11031	123478-HxCDD	39227-28-6	0.0757 JBQ	0.0200	5.69	1
11031	123678-HxCDD	57653-85-7	0.163 JB	0.0208	5.69	1
11031	123789-HxCDD	19408-74-3	0.187 JB	0.0197	5.69	1
11031	1234678-HpCDD	35822-46-9	2.70 JB	0.0236	5.69	1
11031	OCDD	3268-87-9	24.9 B	0.0258	11.4	1
11031	2378-TCDF	51207-31-9	0.216 JQ	0.0349	1.14	1
11031	12378-PeCDF	57117-41-6	0.231 JB	0.0160	5.69	1
11031	23478-PeCDF	57117-31-4	0.300 J	0.0179	5.69	1
11031	123478-HxCDF	70648-26-9	0.0944 JB	0.0170	5.69	1
11031	123678-HxCDF	57117-44-9	0.122 JB	0.0140	5.69	1
11031	123789-HxCDF	72918-21-9	0.126 JB	0.0221	5.69	1
11031	234678-HxCDF	60851-34-5	0.174 JB	0.0158	5.69	1
11031	1234678-HpCDF	67562-39-4	0.718 JB	0.0101	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0972 JB	0.0231	5.69	1
11031	OCDF	39001-02-0	1.61 JB	0.0356	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	41	26 - 138
13C12-OCDF	29	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-200-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298924
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X200- SDG#: DX091-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-200-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-200-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298924
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:10

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X200- SDG#: DX091-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 15:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298925
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298925
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0133	U	0.0133	1.16	1
11031	12378-PeCDD	40321-76-4	0.0739	JBQ	0.0221	5.81	1
11031	123478-HxCDD	39227-28-6	0.0725	JB	0.0207	5.81	1
11031	123678-HxCDD	57653-85-7	0.237	JBQ	0.0220	5.81	1
11031	123789-HxCDD	19408-74-3	0.220	JB	0.0208	5.81	1
11031	1234678-HpCDD	35822-46-9	3.71	JB	0.0244	5.81	1
11031	OCDD	3268-87-9	31.5	B	0.0233	11.6	1
11031	2378-TCDF	51207-31-9	0.654	J	0.0586	1.16	1
11031	12378-PeCDF	57117-41-6	0.948	JB	0.0244	5.81	1
11031	23478-PeCDF	57117-31-4	0.634	J	0.0277	5.81	1
11031	123478-HxCDF	70648-26-9	0.743	JB	0.0167	5.81	1
11031	123678-HxCDF	57117-44-9	0.160	JB	0.0135	5.81	1
11031	123789-HxCDF	72918-21-9	0.155	JBQ	0.0234	5.81	1
11031	234678-HxCDF	60851-34-5	0.256	JBQ	0.0151	5.81	1
11031	1234678-HpCDF	67562-39-4	0.831	JB	0.00781	5.81	1
11031	1234789-HpCDF	55673-89-7	0.115	JB	0.0192	5.81	1
11031	OCDF	39001-02-0	1.71	JB	0.0340	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	44	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	39	26 - 138
13C12-OCDF	27	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-201-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298925
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298925
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 16:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298926
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-201-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298926
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.6	B	0.0359	1.16	1
11031	12378-PeCDD	40321-76-4	114	B	0.0570	5.78	1
11031	123478-HxCDD	39227-28-6	111	B	0.0612	5.78	1
11031	123678-HxCDD	57653-85-7	116	B	0.0636	5.78	1
11031	123789-HxCDD	19408-74-3	114	B	0.0613	5.78	1
11031	1234678-HpCDD	35822-46-9	116	B	0.0588	5.78	1
11031	OCDD	3268-87-9	241	B	0.0609	11.6	1
11031	2378-TCDF	51207-31-9	22.8		0.0896	1.16	1
11031	12378-PeCDF	57117-41-6	112	B	0.0430	5.78	1
11031	23478-PeCDF	57117-31-4	113		0.0486	5.78	1
11031	123478-HxCDF	70648-26-9	114	B	0.0788	5.78	1
11031	123678-HxCDF	57117-44-9	111	B	0.0656	5.78	1
11031	123789-HxCDF	72918-21-9	114	B	0.0999	5.78	1
11031	234678-HxCDF	60851-34-5	114	B	0.0649	5.78	1
11031	1234678-HpCDF	67562-39-4	110	B	0.0470	5.78	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0978	5.78	1
11031	OCDF	39001-02-0	214	B	0.0879	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-201-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298926
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-201-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298926
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 17:50	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298927
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-201-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298927
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

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Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.7	B	0.0366	1.17	1
11031	12378-PeCDD	40321-76-4	109	B	0.0582	5.84	1
11031	123478-HxCDD	39227-28-6	111	B	0.0515	5.84	1
11031	123678-HxCDD	57653-85-7	114	B	0.0549	5.84	1
11031	123789-HxCDD	19408-74-3	114	B	0.0535	5.84	1
11031	1234678-HpCDD	35822-46-9	116	B	0.0647	5.84	1
11031	OCDD	3268-87-9	251	B	0.0724	11.7	1
11031	2378-TCDF	51207-31-9	24.0		0.110	1.17	1
11031	12378-PeCDF	57117-41-6	113	B	0.0471	5.84	1
11031	23478-PeCDF	57117-31-4	113		0.0518	5.84	1
11031	123478-HxCDF	70648-26-9	110	B	0.0817	5.84	1
11031	123678-HxCDF	57117-44-9	114	B	0.0725	5.84	1
11031	123789-HxCDF	72918-21-9	112	B	0.103	5.84	1
11031	234678-HxCDF	60851-34-5	113	B	0.0759	5.84	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0495	5.84	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0973	5.84	1
11031	OCDF	39001-02-0	228	B	0.0778	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	33	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-201-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298927
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-201-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-201-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298927
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:45

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X201- SDG#: DX091-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 18:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298928
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X205- SDG#: DX091-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298928
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X205- SDG#: DX091-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0232	U	0.0232	1.16	1
11031	12378-PeCDD	40321-76-4	0.168	JB	0.0368	5.82	1
11031	123478-HxCDD	39227-28-6	0.221	JB	0.0354	5.82	1
11031	123678-HxCDD	57653-85-7	0.395	JB	0.0373	5.82	1
11031	123789-HxCDD	19408-74-3	0.360	JB	0.0369	5.82	1
11031	1234678-HpCDD	35822-46-9	4.33	JB	0.0404	5.82	1
11031	OCDD	3268-87-9	37.1	B	0.0394	11.6	1
11031	2378-TCDF	51207-31-9	0.545	JQ	0.0745	1.16	1
11031	12378-PeCDF	57117-41-6	0.256	JBQ	0.0345	5.82	1
11031	23478-PeCDF	57117-31-4	0.701	J	0.0381	5.82	1
11031	123478-HxCDF	70648-26-9	0.891	JB	0.0344	5.82	1
11031	123678-HxCDF	57117-44-9	0.288	JB	0.0273	5.82	1
11031	123789-HxCDF	72918-21-9	0.336	JB	0.0485	5.82	1
11031	234678-HxCDF	60851-34-5	0.373	JB	0.0307	5.82	1
11031	1234678-HpCDF	67562-39-4	1.26	JB	0.0166	5.82	1
11031	1234789-HpCDF	55673-89-7	0.298	JB	0.0411	5.82	1
11031	OCDF	39001-02-0	2.59	JB	0.0646	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	41	26 - 138
13C12-OCDF	29	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-205-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298928
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X205- SDG#: DX091-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-205-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-205-SA5DN-SS-0.0-0.5

LLI Sample # SW 6298928
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 14:27

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X205- SDG#: DX091-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 19:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

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Analysis Report

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298929
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP8 SDG#: DX091-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298929
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP8 SDG#: DX091-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0311	JBQ	0.0235	1.17	1
11031	12378-PeCDD	40321-76-4	0.0828	JB	0.0363	5.85	1
11031	123478-HxCDD	39227-28-6	0.0781	JB	0.0309	5.85	1
11031	123678-HxCDD	57653-85-7	0.257	JB	0.0336	5.85	1
11031	123789-HxCDD	19408-74-3	0.241	JB	0.0319	5.85	1
11031	1234678-HpCDD	35822-46-9	3.44	JB	0.0364	5.85	1
11031	OCDD	3268-87-9	29.3	B	0.0388	11.7	1
11031	2378-TCDF	51207-31-9	0.730	J	0.0837	1.17	1
11031	12378-PeCDF	57117-41-6	0.179	JB	0.0401	5.85	1
11031	23478-PeCDF	57117-31-4	0.591	JQ	0.0433	5.85	1
11031	123478-HxCDF	70648-26-9	0.848	JB	0.0300	5.85	1
11031	123678-HxCDF	57117-44-9	0.150	JB	0.0241	5.85	1
11031	123789-HxCDF	72918-21-9	0.169	JBQ	0.0370	5.85	1
11031	234678-HxCDF	60851-34-5	0.262	JB	0.0266	5.85	1
11031	1234678-HpCDF	67562-39-4	0.782	JB	0.0144	5.85	1
11031	1234789-HpCDF	55673-89-7	0.106	JBQ	0.0324	5.85	1
11031	OCDF	39001-02-0	1.53	JBQ	0.0493	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298929
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP8 SDG#: DX091-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP08-SA5DN-QC-052411 Soil
SSFL Area IV Collocated Soil Sampling
DUP08-SA5DN-QC-052411

LLI Sample # SW 6298929
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:53

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP8 SDG#: DX091-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/13/2011 20:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11157162401B	06/06/2011 18:31	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB07-SA5DN-SS-052511 Water
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298930
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB7- SDG#: DX091-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.234	JQ	0.202	2.09	1
10915	12378-PeCDD	40321-76-4	0.297	JBQ	0.212	10.5	1
10915	123478-HxCDD	39227-28-6	0.241	JQ	0.219	10.5	1
10915	123678-HxCDD	57653-85-7	0.557	JB	0.232	10.5	1
10915	123789-HxCDD	19408-74-3	0.397	JBQ	0.219	10.5	1
10915	1234678-HpCDD	35822-46-9	5.98	JBQ	0.552	10.5	1
10915	OCDD	3268-87-9	12.2	JB	0.604	20.9	1
10915	2378-TCDF	51207-31-9	0.143	U	0.143	2.09	1
10915	12378-PeCDF	57117-41-6	0.276	JBQ	0.108	10.5	1
10915	23478-PeCDF	57117-31-4	0.507	JBQ	0.0979	10.5	1
10915	123478-HxCDF	70648-26-9	0.231	JBQ	0.136	10.5	1
10915	123678-HxCDF	57117-44-9	0.139	JBQ	0.130	10.5	1
10915	123789-HxCDF	72918-21-9	0.287	JBQ	0.137	10.5	1
10915	234678-HxCDF	60851-34-5	0.123	U	0.123	10.5	1
10915	1234678-HpCDF	67562-39-4	0.433	JB	0.218	10.5	1
10915	1234789-HpCDF	55673-89-7	0.393	JBQ	0.255	10.5	1
10915	OCDF	39001-02-0	1.25	JBQ	0.568	20.9	1

The recoveries of the labeled compounds were outside QC limits in the initial analysis of this equipment blank. Therefore, the data could not be reported. This equipment blank was re-extracted and the percent recoveries for 2378-TCDF, 12378-PeCDF, and 123678-HxCDF were outside QC limits low (within 2%) in the OPR associated with this sample. There was not sufficient sample to re-extract again so the results from the second extraction were reported.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	46	25 - 181
13C12-123478-HxCDD	46	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	45	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	45	24 - 185
13C12-23478-PeCDF	45	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB07-SA5DN-SS-052511 Water**
SSFL Area IV Collocated Soil Sampling
EB07-SA5DN-SS-052511

LLI Sample # WW 6298930
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 12:30

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB7- SDG#: DX091-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11171001	06/23/2011 20:23	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11171001	06/22/2011 06:10	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB08-SA5DN-SB-052511 Water
SSFL Area IV Collocated Soil Sampling
EB08-SA5DN-SB-052511

LLI Sample # WW 6298931
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/25/2011 13:00

Submitted: 05/26/2011 10:20
Reported: 06/24/2011 17:23

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB8- SDG#: DX091-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.252	U	0.252	2.18	1
10915	12378-PeCDD	40321-76-4	0.413	JBQ	0.266	10.9	1
10915	123478-HxCDD	39227-28-6	0.218	U	0.218	10.9	1
10915	123678-HxCDD	57653-85-7	0.534	JB	0.228	10.9	1
10915	123789-HxCDD	19408-74-3	0.458	JBQ	0.212	10.9	1
10915	1234678-HpCDD	35822-46-9	2.50	JB	0.313	10.9	1
10915	OCDD	3268-87-9	8.39	JB	0.384	21.8	1
10915	2378-TCDF	51207-31-9	0.229	U	0.229	2.18	1
10915	12378-PeCDF	57117-41-6	0.302	JB	0.155	10.9	1
10915	23478-PeCDF	57117-31-4	0.814	JB	0.147	10.9	1
10915	123478-HxCDF	70648-26-9	0.675	JB	0.196	10.9	1
10915	123678-HxCDF	57117-44-9	0.625	JBQ	0.187	10.9	1
10915	123789-HxCDF	72918-21-9	0.718	JB	0.196	10.9	1
10915	234678-HxCDF	60851-34-5	0.541	JB	0.173	10.9	1
10915	1234678-HpCDF	67562-39-4	1.48	JB	0.164	10.9	1
10915	1234789-HpCDF	55673-89-7	0.685	JB	0.181	10.9	1
10915	OCDF	39001-02-0	2.33	JBQ	0.411	21.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	45	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB08-SA5DN-SB-052511 Water**
SSFL Area IV Collocated Soil Sampling
EB08-SA5DN-SB-052511

LLI Sample # WW 6298931
LLI Group # 1248711
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB8- SDG#: DX091-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11154001	06/07/2011 12:05	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11154001	06/03/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248711
Reported: 06/24/11 at 05:23 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11157162401B	Sample number(s): 6298924-6298929								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11154001	Sample number(s): 6298931								
2378-TCDD	0.343 J	0.294	2.00	pg/l	92		67-158		
12378-PeCDD	1.18 J	0.332	10.0	pg/l	96		70-142		
123478-HxCDD	0.888 J	0.249	10.0	pg/l	96		70-164		
123678-HxCDD	0.712 J	0.265	10.0	pg/l	99		76-134		
123789-HxCDD	1.50 J	0.250	10.0	pg/l	97		64-162		
1234678-HpCDD	3.82 J	0.318	10.0	pg/l	98		70-140		
OCDD	9.88 J	0.354	20.0	pg/l	97		78-144		
2378-TCDF	0.368 J	0.302	2.00	pg/l	97		75-158		
12378-PeCDF	0.895 J	0.188	10.0	pg/l	100		80-134		
23478-PeCDF	0.981 J	0.165	10.0	pg/l	99		68-160		
123478-HxCDF	1.05 J	0.203	10.0	pg/l	99		72-134		
123678-HxCDF	1.06 J	0.193	10.0	pg/l	98		84-130		
123789-HxCDF	1.01 J	0.198	10.0	pg/l	99		78-130		
234678-HxCDF	1.18 J	0.169	10.0	pg/l	98		70-156		
1234678-HpCDF	2.66 J	0.169	10.0	pg/l	99		82-122		
1234789-HpCDF	1.23 J	0.188	10.0	pg/l	97		78-138		
OCDF	3.74 J	0.491	20.0	pg/l	97		63-170		
Batch number: 11159002	Sample number(s): 6298924-6298929								
2378-TCDD	0.0249 J	0.0148	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0516 J	0.0176	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0371 J	0.0140	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0439 J	0.0148	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0360 J	0.0137	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.200 J	0.0207	5.00	ng/kg	102		70-140		
OCDD	0.698 J	0.0185	10.0	ng/kg	99		78-144		
2378-TCDF	0.0173 U	0.0173	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0331 J	0.0123	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0136 U	0.0136	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0750 J	0.0171	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0456 J	0.0121	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0768 J	0.0158	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0650 J	0.0115	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.156 J	0.00740	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.109 J	0.0149	5.00	ng/kg	98		78-138		
OCDF	0.500 J	0.0371	10.0	ng/kg	100		63-170		
Batch number: 11171001	Sample number(s): 6298930								
2378-TCDD	0.172 U	0.172	2.00	pg/l	71		67-158		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248711
Reported: 06/24/11 at 05:23 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
12378-PeCDD	0.249	J	0.171	10.0	pg/l	77		70-142		
123478-HxCDD	0.221	U	0.221	10.0	pg/l	80		70-164		
123678-HxCDD	0.363	J	0.229	10.0	pg/l	80		76-134		
123789-HxCDD	0.765	J	0.215	10.0	pg/l	79		64-162		
1234678-HpCDD	6.67	J	0.589	10.0	pg/l	83		70-140		
OCDD	13.7	J	0.607	20.0	pg/l	91		78-144		
2378-TCDF	0.131	U	0.131	2.00	pg/l	74*		75-158		
12378-PeCDF	0.310	J	0.0947	10.0	pg/l	78*		80-134		
23478-PeCDF	0.557	J	0.0826	10.0	pg/l	77		68-160		
123478-HxCDF	0.509	J	0.128	10.0	pg/l	81		72-134		
123678-HxCDF	0.434	J	0.121	10.0	pg/l	82*		84-130		
123789-HxCDF	0.608	J	0.138	10.0	pg/l	81		78-130		
234678-HxCDF	0.530	J	0.117	10.0	pg/l	81		70-156		
1234678-HpCDF	1.14	J	0.239	10.0	pg/l	85		82-122		
1234789-HpCDF	0.982	J	0.284	10.0	pg/l	83		78-138		
OCDF	1.25	J	0.767	20.0	pg/l	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11157162401B	Sample number(s): 6298924-6298929					BKG: P298916			
Moisture Content by 160.3						15.5	15.3	1	20
Batch number: 11159002	Sample number(s): 6298924-6298929 UNSPK: 6298925								
2378-TCDD	93	93	67-158	0	25				
12378-PeCDD	98	93	70-142	4	25				
123478-HxCDD	96	95	70-164	0	25				
123678-HxCDD	100	98	76-134	1	25				
123789-HxCDD	98	97	64-162	0	25				
1234678-HpCDD	97	97	70-140	1	25				
OCDD	90	94	78-144	4	25				
2378-TCDF	96	100	75-158	5	25				
12378-PeCDF	96	96	80-134	1	25				
23478-PeCDF	97	97	68-160	0	25				
123478-HxCDF	98	93	72-134	4	25				
123678-HxCDF	96	98	84-130	3	25				
123789-HxCDF	98	96	78-130	2	25				
234678-HxCDF	98	96	70-156	1	25				
1234678-HpCDF	95	93	82-122	1	25				
1234789-HpCDF	97	96	78-138	0	25				
OCDF	92	97	63-170	6	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248711
Reported: 06/24/11 at 05:23 PM

Surrogate Quality Control

Batch number: 11154001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6298931	72	64	62	61	69	69
Blank	79	73	67	67	72	74
OPR	78	77	70	72	76	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6298931	55	56	43	85	66	65
Blank	60	62	49	98	73	72
OPR	69	69	56	89	78	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6298931	66	69	58	45	71	64
Blank	71	74	64	51	77	72
OPR	78	77	71	58	77	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11159002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6298924	77	68	65	76	67	55
6298925	75	65	68	79	69	53
6298926	74	71	67	78	74	59
6298927	74	70	66	73	69	59
6298928	72	70	63	78	69	52
6298929	76	71	68	82	73	63
Blank	81	65	54	73	75	63
MS	74	71	67	78	74	59
MSD	74	70	66	73	69	59
OPR	65	65	68	80	75	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6298924	81	41	29	98	74	72
6298925	83	39	27	94	71	71
6298926	84	48	32	87	73	74
6298927	80	46	33	92	76	72
6298928	86	41	29	89	76	70
6298929	89	47	37	93	76	74
Blank	93	53	43	114	82	83
MS	84	48	32	87	73	74
MSD	80	46	33	92	76	72
OPR	93	57	42	86	70	80

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248711
Reported: 06/24/11 at 05:23 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6298924	72	73	60	46	73	83
6298925	70	70	58	44	72	78
6298926	74	75	64	51	74	85
6298927	72	72	62	48	73	82
6298928	70	70	61	49	71	85
6298929	72	72	63	53	78	85
Blank	82	87	79	68	70	78
MS	74	75	64	51	74	85
MSD	72	72	62	48	73	82
OPR	79	81	72	59	66	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11171001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6298930	50	45	43	45	46	46
Blank	63	58	55	57	59	60
OPR	72	70	69	70	72	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6298930	42	43	41	83	46	46
Blank	50	51	44	90	59	59
OPR	66	69	64	83	72	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6298930	45	47	45	42	50	45
Blank	56	58	52	45	61	56
OPR	71	73	71	64	69	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

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13013 1248711 6298924-31

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X									MS/MSD
SL-057-SA5DN-SS-0.0-0.5MS	5.24.11	1548	SOIL	NONE	2-SS sleeve			X	X																MS/MSD
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-185-SA5DN-SS-0.0-0.5	5.24.11	1527	SOIL	NONE	1-SS sleeve			X	X																
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
DUP06-SA5DN-QC-052411	5.24.11	1555	SOIL	NONE	1-SS sleeve			X	X																
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X									
SL-001-SA5DN-SS-0.0-0.5	5.25.11	0945	SOIL	NONE	1-SS sleeve			X	X																
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X									
SL-002-SA5DN-SS-0.0-0.5	5.25.11	0920	SOIL	NONE	1-SS sleeve			X	X																
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-004-SA5DN-SS-0.0-0.5	5.25.11	1055	SOIL	NONE	1-SS sleeve			X	X																
SL-005-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-005-SA5DN-SS-0.0-0.5	5.25.11	1010	SOIL	NONE	1-SS sleeve			X	X																
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	2-8 oz. jar	X	X			X	X	X	X		X	X									
SL-006-SA5DN-SS-0.0-0.5	5.25.11	0840	SOIL	NONE	1-SS sleeve			X	X																
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-060-SA5DN-SS-0.0-0.5	5.25.11	1530	SOIL	NONE	1-SS sleeve			X	X																
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-190-SA5DN-SS-0.0-0.5	5.25.11	1445	SOIL	NONE	1-SS sleeve			X	X																
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-199-SA5DN-SS-0.0-0.5	5.25.11	1140	SOIL	NONE	1-SS sleeve			X	X																
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-200-SA5DN-SS-0.0-0.5	5.25.11	1410	SOIL	NONE	1-SS sleeve			X	X																
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-16 oz jar	X	X			X	X	X	X		X	X									MS/MSD
SL-201-SA5DN-SS-0.0-0.5MS	5.25.11	1345	SOIL	NONE	2-SS sleeve			X	X																MS/MSD
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
SL-205-SA5DN-SS-0.0-0.5	5.25.11	1427	SOIL	NONE	1-SS sleeve			X	X																
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-16 oz jar	X	X			X	X	X	X		X	X									
DUP08-SA5DN-QC-052411	5.25.11	1353	SOIL	NONE	1-SS sleeve			X	X																

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/25/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	5/26/11 1020	8695 1442 0913,0924,0935,0946,0957	

13013 1248711 6298924-31

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB07-SA5DN-SS-052511	5.25.11	1230	WATER	NONE	7-1 liter ambers			X	X	X				X	X													
EB07-SA5DN-SS-052511	5.25.11	1230	WATER	NONE	1-500 mL poly		X				X	X	X															
EB07-SA5DN-SS-052511	5.25.11	1230	WATER	HNO3	1-500 mL poly	X																						
EB08-SA5DN-SS-052511	5.25.11	1300	WATER	NONE	7-1 liter ambers					X																		
EB08-SA5DN-SS-052511	5.25.11	1300	WATER	NONE	1-500mL poly		X				X	X	X															
EB08-SA5DN-SS-052511	5.25.11	1300	WATER	HNO3	1-500mL poly	X																						
EB08-SA5DN-SS-052511	5.25.11	1300	WATER	HCL	6-40 mL Vials											X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/25/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	5/26/11 0720		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/27/2011
Group Number: 1248960
SDG: DX093
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA8N-SB-4.0-5.0 Soil	6300364
SL-002-SA8N-SB-4.0-5.0MS Soil	6300365
SL-002-SA8N-SB-4.0-5.0MSD Soil	6300366
SL-002-SA8N-SB-9.0-10.0 Soil	6300367
SL-008-SA8N-SB-4.0-5.0 Soil	6300368
SL-008-SA8N-SB-9.0-10.0 Soil	6300369
DUP09-SA8N-QC-052611 Soil	6300370
SL-164-SA5DN-SS-0.0-0.5 Soil	6300371
SL-165-SA5DN-SS-0.0-0.5 Soil	6300372
SL-170-SA5DN-SS-0.0-0.5 Soil	6300373
SL-171-SA5DN-SS-0.0-0.5 Soil	6300374
SL-172-SA5DN-SS-0.0-0.5 Soil	6300375
SL-173-SA5DN-SS-0.0-0.5 Soil	6300376
SL-174-SA5DN-SS-0.0-0.5 Soil	6300377
SL-175-SA5DN-SS-0.0-0.5 Soil	6300378
SL-176-SA5DN-SS-0.0-0.5 Soil	6300379
SL-179-SA5DN-SS-0.0-0.5 Soil	6300380
SL-180-SA5DN-SS-0.0-0.5 Soil	6300381
SL-181-SA5DN-SS-0.0-0.5 Soil	6300382
SL-182-SA5DN-SS-0.0-0.5 Soil	6300383
SL-183-SA5DN-SS-0.0-0.5 Soil	6300384
SL-184-SA5DN-SS-0.0-0.5 Soil	6300385
EB09-SA5DN-SS-052611 Water	6300386
EB11-SA8N-SB-052611 Water	6300387

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0342 JBQ	0.0272	1.17	1
11031	12378-PeCDD	40321-76-4	0.0398 JBQ	0.0294	5.87	1
11031	123478-HxCDD	39227-28-6	0.0232 JBQ	0.0188	5.87	1
11031	123678-HxCDD	57653-85-7	0.0295 JBQ	0.0204	5.87	1
11031	123789-HxCDD	19408-74-3	0.0642 JB	0.0200	5.87	1
11031	1234678-HpCDD	35822-46-9	0.519 JB	0.0305	5.87	1
11031	OCDD	3268-87-9	1.49 JB	0.0299	11.7	1
11031	2378-TCDF	51207-31-9	0.0368 JQ	0.0320	1.17	1
11031	12378-PeCDF	57117-41-6	0.0511 JB	0.0158	5.87	1
11031	23478-PeCDF	57117-31-4	0.0831 JB	0.0161	5.87	1
11031	123478-HxCDF	70648-26-9	0.0223 JBQ	0.0149	5.87	1
11031	123678-HxCDF	57117-44-9	0.0257 JBQ	0.0123	5.87	1
11031	123789-HxCDF	72918-21-9	0.0345 JB	0.0202	5.87	1
11031	234678-HxCDF	60851-34-5	0.0277 JB	0.0142	5.87	1
11031	1234678-HpCDF	67562-39-4	0.0465 JB	0.00800	5.87	1
11031	1234789-HpCDF	55673-89-7	0.0386 JBQ	0.0173	5.87	1
11031	OCDF	39001-02-0	0.131 JB	0.0479	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	38	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300364
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 14:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/09/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.0	B	0.0486	1.18	1
11031	12378-PeCDD	40321-76-4	110	B	0.0632	5.90	1
11031	123478-HxCDD	39227-28-6	115	B	0.0560	5.90	1
11031	123678-HxCDD	57653-85-7	116	B	0.0596	5.90	1
11031	123789-HxCDD	19408-74-3	114	B	0.0565	5.90	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0744	5.90	1
11031	OCDD	3268-87-9	223	B	0.0741	11.8	1
11031	2378-TCDF	51207-31-9	22.5		0.0713	1.18	1
11031	12378-PeCDF	57117-41-6	113	B	0.0389	5.90	1
11031	23478-PeCDF	57117-31-4	109	B	0.0412	5.90	1
11031	123478-HxCDF	70648-26-9	110	B	0.0918	5.90	1
11031	123678-HxCDF	57117-44-9	108	B	0.0726	5.90	1
11031	123789-HxCDF	72918-21-9	116	B	0.121	5.90	1
11031	234678-HxCDF	60851-34-5	112	B	0.0833	5.90	1
11031	1234678-HpCDF	67562-39-4	115	B	0.0528	5.90	1
11031	1234789-HpCDF	55673-89-7	116	B	0.122	5.90	1
11031	OCDF	39001-02-0	222	B	0.103	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	33	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300365
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 15:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1	B	0.0399	1.19	1
11031	12378-PeCDD	40321-76-4	108	B	0.0491	5.93	1
11031	123478-HxCDD	39227-28-6	112	B	0.0460	5.93	1
11031	123678-HxCDD	57653-85-7	117	B	0.0507	5.93	1
11031	123789-HxCDD	19408-74-3	111	B	0.0480	5.93	1
11031	1234678-HpCDD	35822-46-9	112	B	0.0676	5.93	1
11031	OCDD	3268-87-9	221	B	0.0689	11.9	1
11031	2378-TCDF	51207-31-9	22.9		0.0562	1.19	1
11031	12378-PeCDF	57117-41-6	110	B	0.0346	5.93	1
11031	23478-PeCDF	57117-31-4	114	B	0.0366	5.93	1
11031	123478-HxCDF	70648-26-9	112	B	0.0841	5.93	1
11031	123678-HxCDF	57117-44-9	110	B	0.0687	5.93	1
11031	123789-HxCDF	72918-21-9	110	B	0.104	5.93	1
11031	234678-HxCDF	60851-34-5	113	B	0.0755	5.93	1
11031	1234678-HpCDF	67562-39-4	112	B	0.0464	5.93	1
11031	1234789-HpCDF	55673-89-7	113	B	0.0978	5.93	1
11031	OCDF	39001-02-0	231	B	0.105	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-4.0-5.0

LLI Sample # SW 6300366
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-024 SDG#: DX093-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 16:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0355 JBQ	0.0212	1.17	1
11031	12378-PeCDD	40321-76-4	0.0895 JB	0.0179	5.84	1
11031	123478-HxCDD	39227-28-6	0.122 JBQ	0.0212	5.84	1
11031	123678-HxCDD	57653-85-7	0.102 JBQ	0.0221	5.84	1
11031	123789-HxCDD	19408-74-3	0.154 JBQ	0.0210	5.84	1
11031	1234678-HpCDD	35822-46-9	0.520 JB	0.0282	5.84	1
11031	OCDD	3268-87-9	2.00 JBQ	0.0474	11.7	1
11031	2378-TCDF	51207-31-9	0.0223 JQ	0.0212	1.17	1
11031	12378-PeCDF	57117-41-6	0.0849 JB	0.0110	5.84	1
11031	23478-PeCDF	57117-31-4	0.111 JBQ	0.0117	5.84	1
11031	123478-HxCDF	70648-26-9	0.233 JB	0.0434	5.84	1
11031	123678-HxCDF	57117-44-9	0.172 JBQ	0.0361	5.84	1
11031	123789-HxCDF	72918-21-9	0.204 JB	0.0216	5.84	1
11031	234678-HxCDF	60851-34-5	0.182 JB	0.0165	5.84	1
11031	1234678-HpCDF	67562-39-4	0.232 JB	0.0196	5.84	1
11031	1234789-HpCDF	55673-89-7	0.257 JB	0.0199	5.84	1
11031	OCDF	39001-02-0	0.578 JB	0.0443	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	27	26 - 152
13C12-123678-HxCDF	32	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	46	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-002-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA8N-SB-9.0-10.0

LLI Sample # SW 6300367
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-029 SDG#: DX093-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/10/2011 23:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401A	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0307	U	0.0307	1.17	1
11031	12378-PeCDD	40321-76-4	0.188	JB	0.0325	5.85	1
11031	123478-HxCDD	39227-28-6	0.237	JBQ	0.0323	5.85	1
11031	123678-HxCDD	57653-85-7	0.252	JBQ	0.0328	5.85	1
11031	123789-HxCDD	19408-74-3	0.355	JBQ	0.0334	5.85	1
11031	1234678-HpCDD	35822-46-9	1.07	JB	0.0367	5.85	1
11031	OCDD	3268-87-9	3.93	JB	0.0376	11.7	1
11031	2378-TCDF	51207-31-9	0.0719	JQ	0.0434	1.17	1
11031	12378-PeCDF	57117-41-6	0.225	JB	0.0219	5.85	1
11031	23478-PeCDF	57117-31-4	0.241	JBQ	0.0213	5.85	1
11031	123478-HxCDF	70648-26-9	0.313	JB	0.0271	5.85	1
11031	123678-HxCDF	57117-44-9	0.214	JBQ	0.0235	5.85	1
11031	123789-HxCDF	72918-21-9	0.321	JB	0.0367	5.85	1
11031	234678-HxCDF	60851-34-5	0.278	JB	0.0266	5.85	1
11031	1234678-HpCDF	67562-39-4	0.438	JB	0.0125	5.85	1
11031	1234789-HpCDF	55673-89-7	0.265	JBQ	0.0266	5.85	1
11031	OCDF	39001-02-0	1.04	JB	0.0617	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-4.0-5.0

LLI Sample # SW 6300368
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-044 SDG#: DX093-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 17:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265 U	0.0265	1.14	1
11031	12378-PeCDD	40321-76-4	0.0572 JB	0.0259	5.69	1
11031	123478-HxCDD	39227-28-6	0.0339 JBQ	0.0185	5.69	1
11031	123678-HxCDD	57653-85-7	0.0596 JBQ	0.0199	5.69	1
11031	123789-HxCDD	19408-74-3	0.0750 JBQ	0.0196	5.69	1
11031	1234678-HpCDD	35822-46-9	0.600 JB	0.0297	5.69	1
11031	OCDD	3268-87-9	2.65 JB	0.0276	11.4	1
11031	2378-TCDF	51207-31-9	0.0283 U	0.0283	1.14	1
11031	12378-PeCDF	57117-41-6	0.0487 JB	0.0158	5.69	1
11031	23478-PeCDF	57117-31-4	0.0862 JB	0.0156	5.69	1
11031	123478-HxCDF	70648-26-9	0.0378 JB	0.0146	5.69	1
11031	123678-HxCDF	57117-44-9	0.0489 JB	0.0124	5.69	1
11031	123789-HxCDF	72918-21-9	0.0456 JBQ	0.0179	5.69	1
11031	234678-HxCDF	60851-34-5	0.0399 JBQ	0.0136	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0907 JB	0.00818	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0363 JB	0.0167	5.69	1
11031	OCDF	39001-02-0	0.302 JB	0.0494	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	49	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	36	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8N-SB-9.0-10.0

LLI Sample # SW 6300369
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:40

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-049 SDG#: DX093-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 17:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0221 U	0.0221	1.17	1
11031	12378-PeCDD	40321-76-4	0.0255 JBQ	0.0247	5.86	1
11031	123478-HxCDD	39227-28-6	0.0166 U	0.0166	5.86	1
11031	123678-HxCDD	57653-85-7	0.0196 JBQ	0.0174	5.86	1
11031	123789-HxCDD	19408-74-3	0.0217 JBQ	0.0156	5.86	1
11031	1234678-HpCDD	35822-46-9	0.193 JBQ	0.0294	5.86	1
11031	OCDD	3268-87-9	0.568 JBQ	0.0359	11.7	1
11031	2378-TCDF	51207-31-9	0.0190 U	0.0190	1.17	1
11031	12378-PeCDF	57117-41-6	0.0318 JBQ	0.0112	5.86	1
11031	23478-PeCDF	57117-31-4	0.0611 JBQ	0.0111	5.86	1
11031	123478-HxCDF	70648-26-9	0.0210 JB	0.0192	5.86	1
11031	123678-HxCDF	57117-44-9	0.0253 JB	0.0158	5.86	1
11031	123789-HxCDF	72918-21-9	0.0377 JBQ	0.0155	5.86	1
11031	234678-HxCDF	60851-34-5	0.0688 JBQ	0.0129	5.86	1
11031	1234678-HpCDF	67562-39-4	0.128 JBQ	0.0133	5.86	1
11031	1234789-HpCDF	55673-89-7	0.0500 JBQ	0.0192	5.86	1
11031	OCDF	39001-02-0	0.173 JBQ	0.0424	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP09-SA8N-QC-052611 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA8N-QC-052611

LLI Sample # SW 6300370
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-FD9 SDG#: DX093-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 02:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-164-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0544	JBQ	0.0288	1.08	1
11031	12378-PeCDD	40321-76-4	0.197	JBQ	0.0416	5.42	1
11031	123478-HxCDD	39227-28-6	0.191	JB	0.0392	5.42	1
11031	123678-HxCDD	57653-85-7	0.881	JB	0.0409	5.42	1
11031	123789-HxCDD	19408-74-3	0.854	JB	0.0408	5.42	1
11031	1234678-HpCDD	35822-46-9	11.7	B	0.0549	5.42	1
11031	OCDD	3268-87-9	138	B	0.0573	10.8	1
11031	2378-TCDF	51207-31-9	0.386	JQ	0.0735	1.08	1
11031	12378-PeCDF	57117-41-6	0.531	JB	0.0359	5.42	1
11031	23478-PeCDF	57117-31-4	0.804	JB	0.0376	5.42	1
11031	123478-HxCDF	70648-26-9	0.494	JB	0.0358	5.42	1
11031	123678-HxCDF	57117-44-9	0.261	JB	0.0316	5.42	1
11031	123789-HxCDF	72918-21-9	0.605	JB	0.0498	5.42	1
11031	234678-HxCDF	60851-34-5	0.419	JBQ	0.0342	5.42	1
11031	1234678-HpCDF	67562-39-4	1.94	JB	0.0181	5.42	1
11031	1234789-HpCDF	55673-89-7	0.215	JB	0.0329	5.42	1
11031	OCDF	39001-02-0	5.29	JB	0.0486	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-164-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-164-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300371
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:55

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-164 SDG#: DX093-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 18:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-165-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0640	JB	0.0261	1.07	1
11031	12378-PeCDD	40321-76-4	0.345	JB	0.0447	5.33	1
11031	123478-HxCDD	39227-28-6	0.622	JB	0.0524	5.33	1
11031	123678-HxCDD	57653-85-7	2.35	JB	0.0565	5.33	1
11031	123789-HxCDD	19408-74-3	1.06	JB	0.0526	5.33	1
11031	1234678-HpCDD	35822-46-9	74.4	B	0.102	5.33	1
11031	OCDD	3268-87-9	834	B	0.107	10.7	1
11031	2378-TCDF	51207-31-9	0.524	J	0.0830	1.07	1
11031	12378-PeCDF	57117-41-6	1.86	JB	0.0446	5.33	1
11031	23478-PeCDF	57117-31-4	0.749	JB	0.0440	5.33	1
11031	123478-HxCDF	70648-26-9	0.617	JB	0.0502	5.33	1
11031	123678-HxCDF	57117-44-9	0.631	JB	0.0484	5.33	1
11031	123789-HxCDF	72918-21-9	0.322	JB	0.0571	5.33	1
11031	234678-HxCDF	60851-34-5	0.753	JB	0.0467	5.33	1
11031	1234678-HpCDF	67562-39-4	23.2	B	0.0485	5.33	1
11031	1234789-HpCDF	55673-89-7	1.04	JB	0.0714	5.33	1
11031	OCDF	39001-02-0	96.7	B	0.0578	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-165-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-165-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300372
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:30

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-165 SDG#: DX093-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/15/2011 19:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-170-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-170-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0480	JBQ	0.0160	1.00	1
11031	12378-PeCDD	40321-76-4	0.273	JB	0.0215	5.00	1
11031	123478-HxCDD	39227-28-6	0.140	JB	0.0294	5.00	1
11031	123678-HxCDD	57653-85-7	0.286	JB	0.0310	5.00	1
11031	123789-HxCDD	19408-74-3	0.206	JB	0.0297	5.00	1
11031	1234678-HpCDD	35822-46-9	4.31	JB	0.0633	5.00	1
11031	OCDD	3268-87-9	79.2	B	0.0587	10.0	1
11031	2378-TCDF	51207-31-9	0.0809	J	0.0287	1.00	1
11031	12378-PeCDF	57117-41-6	0.287	JB	0.0179	5.00	1
11031	23478-PeCDF	57117-31-4	0.336	JBQ	0.0183	5.00	1
11031	123478-HxCDF	70648-26-9	0.314	JBQ	0.0276	5.00	1
11031	123678-HxCDF	57117-44-9	0.229	JB	0.0249	5.00	1
11031	123789-HxCDF	72918-21-9	0.204	JBQ	0.0295	5.00	1
11031	234678-HxCDF	60851-34-5	0.214	JBQ	0.0247	5.00	1
11031	1234678-HpCDF	67562-39-4	0.625	JB	0.0238	5.00	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0369	5.00	1
11031	OCDF	39001-02-0	2.27	JB	0.0406	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300373
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-170 SDG#: DX093-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 07:57	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-171-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.220	JBQ	0.0216	1.05	1
11031	12378-PeCDD	40321-76-4	1.88	JB	0.0502	5.24	1
11031	123478-HxCDD	39227-28-6	1.74	JB	0.107	5.24	1
11031	123678-HxCDD	57653-85-7	5.35	B	0.112	5.24	1
11031	123789-HxCDD	19408-74-3	3.49	JB	0.105	5.24	1
11031	1234678-HpCDD	35822-46-9	58.7	B	0.118	5.24	1
11031	OCDD	3268-87-9	363	B	0.0926	10.5	1
11031	2378-TCDF	51207-31-9	0.225	JQ	0.0481	1.05	1
11031	12378-PeCDF	57117-41-6	0.324	JB	0.0348	5.24	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0336	5.24	1
11031	123478-HxCDF	70648-26-9	0.783	JBQ	0.0718	5.24	1
11031	123678-HxCDF	57117-44-9	0.729	JB	0.0654	5.24	1
11031	123789-HxCDF	72918-21-9	0.0556	U	0.0556	5.24	1
11031	234678-HxCDF	60851-34-5	0.975	JB	0.0480	5.24	1
11031	1234678-HpCDF	67562-39-4	5.57	B	0.0514	5.24	1
11031	1234789-HpCDF	55673-89-7	0.421	JB	0.0531	5.24	1
11031	OCDF	39001-02-0	10.5	B	0.0449	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-171-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300374
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-171 SDG#: DX093-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 08:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-172-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0650	JBQ	0.0218	1.06	1
11031	12378-PeCDD	40321-76-4	0.172	JBQ	0.0298	5.31	1
11031	123478-HxCDD	39227-28-6	0.119	JB	0.0547	5.31	1
11031	123678-HxCDD	57653-85-7	0.430	JB	0.0556	5.31	1
11031	123789-HxCDD	19408-74-3	0.376	JBQ	0.0554	5.31	1
11031	1234678-HpCDD	35822-46-9	8.85	B	0.0727	5.31	1
11031	OCDD	3268-87-9	100	B	0.0700	10.6	1
11031	2378-TCDF	51207-31-9	0.0468	J	0.0304	1.06	1
11031	12378-PeCDF	57117-41-6	0.0626	JBQ	0.0230	5.31	1
11031	23478-PeCDF	57117-31-4	0.196	JB	0.0230	5.31	1
11031	123478-HxCDF	70648-26-9	0.0679	JBQ	0.0357	5.31	1
11031	123678-HxCDF	57117-44-9	0.110	JB	0.0326	5.31	1
11031	123789-HxCDF	72918-21-9	0.203	JB	0.0361	5.31	1
11031	234678-HxCDF	60851-34-5	0.141	JBQ	0.0312	5.31	1
11031	1234678-HpCDF	67562-39-4	1.20	JB	0.0310	5.31	1
11031	1234789-HpCDF	55673-89-7	0.136	JBQ	0.0399	5.31	1
11031	OCDF	39001-02-0	2.65	JB	0.0518	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300375
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 09:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-172 SDG#: DX093-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 09:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-173-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-173-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0375	JBQ	0.0168	1.05	1
11031	12378-PeCDD	40321-76-4	0.230	JB	0.0324	5.26	1
11031	123478-HxCDD	39227-28-6	0.460	JB	0.0857	5.26	1
11031	123678-HxCDD	57653-85-7	1.80	JB	0.0934	5.26	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0770	5.26	1
11031	1234678-HpCDD	35822-46-9	36.0	B	0.101	5.26	1
11031	OCDD	3268-87-9	340	B	0.0920	10.5	1
11031	2378-TCDF	51207-31-9	0.380	J	0.0639	1.05	1
11031	12378-PeCDF	57117-41-6	0.177	JB	0.0362	5.26	1
11031	23478-PeCDF	57117-31-4	0.898	JB	0.0351	5.26	1
11031	123478-HxCDF	70648-26-9	0.480	JBQ	0.0917	5.26	1
11031	123678-HxCDF	57117-44-9	0.676	JB	0.0910	5.26	1
11031	123789-HxCDF	72918-21-9	0.223	JB	0.0340	5.26	1
11031	234678-HxCDF	60851-34-5	0.665	JB	0.0318	5.26	1
11031	1234678-HpCDF	67562-39-4	5.47	B	0.0713	5.26	1
11031	1234789-HpCDF	55673-89-7	0.403	JB	0.0437	5.26	1
11031	OCDF	39001-02-0	15.6	B	0.0409	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	26	26 - 152
13C12-123678-HxCDF	26	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	34	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-173-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-173-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300376
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:20

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-173 SDG#: DX093-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 10:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-174-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	JBQ	0.0263	1.02	1
11031	12378-PeCDD	40321-76-4	0.291	JB	0.0376	5.10	1
11031	123478-HxCDD	39227-28-6	0.288	JB	0.0410	5.10	1
11031	123678-HxCDD	57653-85-7	1.09	JB	0.0405	5.10	1
11031	123789-HxCDD	19408-74-3	0.646	JB	0.0421	5.10	1
11031	1234678-HpCDD	35822-46-9	21.9	B	0.0485	5.10	1
11031	OCDD	3268-87-9	207	B	0.0353	10.2	1
11031	2378-TCDF	51207-31-9	0.181	J	0.0469	1.02	1
11031	12378-PeCDF	57117-41-6	0.465	JB	0.0238	5.10	1
11031	23478-PeCDF	57117-31-4	0.407	JB	0.0221	5.10	1
11031	123478-HxCDF	70648-26-9	0.408	JB	0.0267	5.10	1
11031	123678-HxCDF	57117-44-9	0.311	JB	0.0251	5.10	1
11031	123789-HxCDF	72918-21-9	0.203	JB	0.0247	5.10	1
11031	234678-HxCDF	60851-34-5	0.376	JB	0.0239	5.10	1
11031	1234678-HpCDF	67562-39-4	3.48	JB	0.0184	5.10	1
11031	1234789-HpCDF	55673-89-7	0.396	JB	0.0250	5.10	1
11031	OCDF	39001-02-0	8.25	JB	0.0178	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	100	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	105	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	97	26 - 138
13C12-OCDF	95	17 - 157
13C12-1278-TCDD (CRS)	103	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300377
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 10:53

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-174 SDG#: DX093-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/17/2011 08:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0863	JBQ	0.0266	1.04	1
11031	12378-PeCDD	40321-76-4	1.06	JB	0.0811	5.21	1
11031	123478-HxCDD	39227-28-6	1.80	JBQ	0.109	5.21	1
11031	123678-HxCDD	57653-85-7	15.3	B	0.116	5.21	1
11031	123789-HxCDD	19408-74-3	4.34	JB	0.0990	5.21	1
11031	1234678-HpCDD	35822-46-9	388	B	0.253	5.21	1
11031	OCDD	3268-87-9	2,980	B	0.196	10.4	1
11031	2378-TCDF	51207-31-9	0.146	J	0.0351	1.04	1
11031	12378-PeCDF	57117-41-6	0.307	JB	0.0249	5.21	1
11031	23478-PeCDF	57117-31-4	0.528	JB	0.0246	5.21	1
11031	123478-HxCDF	70648-26-9	1.53	JB	0.0950	5.21	1
11031	123678-HxCDF	57117-44-9	1.65	JB	0.0836	5.21	1
11031	123789-HxCDF	72918-21-9	0.464	JB	0.0754	5.21	1
11031	234678-HxCDF	60851-34-5	2.76	JB	0.0643	5.21	1
11031	1234678-HpCDF	67562-39-4	56.8	B	0.0818	5.21	1
11031	1234789-HpCDF	55673-89-7	5.24	B	0.0976	5.21	1
11031	OCDF	39001-02-0	163	B	0.0836	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-175-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-175-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300378
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:15

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-175 SDG#: DX093-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 12:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0980	JB	0.0205	1.03	1
11031	12378-PeCDD	40321-76-4	0.327	JB	0.0357	5.14	1
11031	123478-HxCDD	39227-28-6	0.261	JB	0.0273	5.14	1
11031	123678-HxCDD	57653-85-7	1.24	JB	0.0275	5.14	1
11031	123789-HxCDD	19408-74-3	0.933	JB	0.0281	5.14	1
11031	1234678-HpCDD	35822-46-9	13.3	B	0.0311	5.14	1
11031	OCDD	3268-87-9	100	B	0.0280	10.3	1
11031	2378-TCDF	51207-31-9	1.17		0.0830	1.03	1
11650	2378-TCDF-Conf	51207-31-9	0.364	JB	0.0504	1.03	1
11031	12378-PeCDF	57117-41-6	0.483	JB	0.0283	5.14	1
11031	23478-PeCDF	57117-31-4	0.566	JB	0.0300	5.14	1
11031	123478-HxCDF	70648-26-9	1.51	JB	0.0238	5.14	1
11031	123678-HxCDF	57117-44-9	0.984	JB	0.0206	5.14	1
11031	123789-HxCDF	72918-21-9	0.366	JB	0.0281	5.14	1
11031	234678-HxCDF	60851-34-5	0.473	JBQ	0.0229	5.14	1
11031	1234678-HpCDF	67562-39-4	2.13	JB	0.0130	5.14	1
11031	1234789-HpCDF	55673-89-7	0.343	JB	0.0249	5.14	1
11031	OCDF	39001-02-0	4.22	JB	0.0177	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-176-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-176-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300379
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 11:35

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-176 SDG#: DX093-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164002	06/17/2011 08:58	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11164002	06/19/2011 01:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11164002	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-179-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-179-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0659	JBQ	0.0153	1.05	1
11031	12378-PeCDD	40321-76-4	0.277	JBQ	0.0248	5.23	1
11031	123478-HxCDD	39227-28-6	0.208	JBQ	0.0519	5.23	1
11031	123678-HxCDD	57653-85-7	0.526	JB	0.0556	5.23	1
11031	123789-HxCDD	19408-74-3	0.378	JB	0.0451	5.23	1
11031	1234678-HpCDD	35822-46-9	8.84	B	0.0504	5.23	1
11031	OCDD	3268-87-9	96.0	B	0.0664	10.5	1
11031	2378-TCDF	51207-31-9	0.323	J	0.0514	1.05	1
11031	12378-PeCDF	57117-41-6	0.260	JB	0.0247	5.23	1
11031	23478-PeCDF	57117-31-4	0.389	JB	0.0261	5.23	1
11031	123478-HxCDF	70648-26-9	0.207	JB	0.0687	5.23	1
11031	123678-HxCDF	57117-44-9	0.220	JBQ	0.0574	5.23	1
11031	123789-HxCDF	72918-21-9	0.189	JB	0.0338	5.23	1
11031	234678-HxCDF	60851-34-5	0.231	JB	0.0287	5.23	1
11031	1234678-HpCDF	67562-39-4	1.37	JB	0.0377	5.23	1
11031	1234789-HpCDF	55673-89-7	0.146	JB	0.0349	5.23	1
11031	OCDF	39001-02-0	3.18	JB	0.0466	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-179-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-179-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300380
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 08:50

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-179 SDG#: DX093-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 14:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162401B	06/09/2011 21:00	Scott W Freisher	1

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Analysis Report

Sample Description: SL-180-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0482	JBQ	0.0140	1.02	1
11031	12378-PeCDD	40321-76-4	0.284	JB	0.0202	5.12	1
11031	123478-HxCDD	39227-28-6	0.161	JBQ	0.0367	5.12	1
11031	123678-HxCDD	57653-85-7	0.371	JB	0.0373	5.12	1
11031	123789-HxCDD	19408-74-3	0.276	JB	0.0348	5.12	1
11031	1234678-HpCDD	35822-46-9	7.61	B	0.0555	5.12	1
11031	OCDD	3268-87-9	98.6	B	0.0436	10.2	1
11031	2378-TCDF	51207-31-9	0.115	JQ	0.0192	1.02	1
11031	12378-PeCDF	57117-41-6	0.243	JB	0.0155	5.12	1
11031	23478-PeCDF	57117-31-4	0.305	JBQ	0.0152	5.12	1
11031	123478-HxCDF	70648-26-9	0.316	JB	0.0317	5.12	1
11031	123678-HxCDF	57117-44-9	0.179	JBQ	0.0281	5.12	1
11031	123789-HxCDF	72918-21-9	0.195	JB	0.0272	5.12	1
11031	234678-HxCDF	60851-34-5	0.168	JBQ	0.0231	5.12	1
11031	1234678-HpCDF	67562-39-4	1.06	JB	0.0292	5.12	1
11031	1234789-HpCDF	55673-89-7	0.126	JB	0.0353	5.12	1
11031	OCDF	39001-02-0	3.19	JB	0.0443	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300381
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-180 SDG#: DX093-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 15:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-181-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-181-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0453	JB	0.0169	1.04	1
11031	12378-PeCDD	40321-76-4	0.382	JBQ	0.0336	5.18	1
11031	123478-HxCDD	39227-28-6	0.576	JBQ	0.0747	5.18	1
11031	123678-HxCDD	57653-85-7	2.22	JB	0.0776	5.18	1
11031	123789-HxCDD	19408-74-3	1.26	JB	0.0729	5.18	1
11031	1234678-HpCDD	35822-46-9	64.1	B	0.130	5.18	1
11031	OCDD	3268-87-9	1,090	B	0.119	10.4	1
11031	2378-TCDF	51207-31-9	0.526	JQ	0.0716	1.04	1
11031	12378-PeCDF	57117-41-6	0.301	JB	0.0409	5.18	1
11031	23478-PeCDF	57117-31-4	0.759	JB	0.0402	5.18	1
11031	123478-HxCDF	70648-26-9	1.20	JB	0.0512	5.18	1
11031	123678-HxCDF	57117-44-9	0.490	JB	0.0458	5.18	1
11031	123789-HxCDF	72918-21-9	0.469	JB	0.0448	5.18	1
11031	234678-HxCDF	60851-34-5	0.521	JB	0.0383	5.18	1
11031	1234678-HpCDF	67562-39-4	6.63	B	0.0436	5.18	1
11031	1234789-HpCDF	55673-89-7	0.399	JB	0.0525	5.18	1
11031	OCDF	39001-02-0	16.0	B	0.0496	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-181-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300382
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-181 SDG#: DX093-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 19:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-182-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-182-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0212 JBQ	0.0153	1.05	1
11031	12378-PeCDD	40321-76-4	0.125 JBQ	0.0235	5.23	1
11031	123478-HxCDD	39227-28-6	0.152 JBQ	0.0513	5.23	1
11031	123678-HxCDD	57653-85-7	0.566 JB	0.0552	5.23	1
11031	123789-HxCDD	19408-74-3	0.407 JBQ	0.0495	5.23	1
11031	1234678-HpCDD	35822-46-9	15.3 B	0.0790	5.23	1
11031	OCDD	3268-87-9	207 B	0.0718	10.5	1
11031	2378-TCDF	51207-31-9	0.167 JQ	0.0360	1.05	1
11031	12378-PeCDF	57117-41-6	0.0698 JBQ	0.0221	5.23	1
11031	23478-PeCDF	57117-31-4	0.259 JB	0.0209	5.23	1
11031	123478-HxCDF	70648-26-9	0.472 JB	0.0454	5.23	1
11031	123678-HxCDF	57117-44-9	0.132 JB	0.0423	5.23	1
11031	123789-HxCDF	72918-21-9	0.135 JBQ	0.0291	5.23	1
11031	234678-HxCDF	60851-34-5	0.174 JB	0.0227	5.23	1
11031	1234678-HpCDF	67562-39-4	1.95 JB	0.0421	5.23	1
11031	1234789-HpCDF	55673-89-7	0.178 JB	0.0391	5.23	1
11031	OCDF	39001-02-0	5.36 JB	0.0418	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-182-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-182-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-182-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300383
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:25

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-182 SDG#: DX093-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 20:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

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Analysis Report

Sample Description: SL-183-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0165	U	0.0165	1.02	1
11031	12378-PeCDD	40321-76-4	0.357	JB	0.0222	5.10	1
11031	123478-HxCDD	39227-28-6	0.402	JB	0.0639	5.10	1
11031	123678-HxCDD	57653-85-7	1.19	JB	0.0657	5.10	1
11031	123789-HxCDD	19408-74-3	0.835	JBQ	0.0643	5.10	1
11031	1234678-HpCDD	35822-46-9	18.3	B	0.0694	5.10	1
11031	OCDD	3268-87-9	186	B	0.0882	10.2	1
11031	2378-TCDF	51207-31-9	0.104	JQ	0.0269	1.02	1
11031	12378-PeCDF	57117-41-6	0.0596	JB	0.0172	5.10	1
11031	23478-PeCDF	57117-31-4	0.282	JB	0.0177	5.10	1
11031	123478-HxCDF	70648-26-9	0.199	JBQ	0.0409	5.10	1
11031	123678-HxCDF	57117-44-9	0.254	JB	0.0359	5.10	1
11031	123789-HxCDF	72918-21-9	0.138	JBQ	0.0319	5.10	1
11031	234678-HxCDF	60851-34-5	0.270	JB	0.0245	5.10	1
11031	1234678-HpCDF	67562-39-4	2.53	JB	0.0316	5.10	1
11031	1234789-HpCDF	55673-89-7	0.195	JBQ	0.0401	5.10	1
11031	OCDF	39001-02-0	5.25	JB	0.0432	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300384
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 14:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-183 SDG#: DX093-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/11/2011 21:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-184-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-184-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0441	JB	0.0118	1.03	1
11031	12378-PeCDD	40321-76-4	0.106	JB	0.0168	5.17	1
11031	123478-HxCDD	39227-28-6	0.0870	JBQ	0.0365	5.17	1
11031	123678-HxCDD	57653-85-7	0.318	JB	0.0381	5.17	1
11031	123789-HxCDD	19408-74-3	0.264	JB	0.0346	5.17	1
11031	1234678-HpCDD	35822-46-9	6.28	B	0.0343	5.17	1
11031	OCDD	3268-87-9	81.9	B	0.0413	10.3	1
11031	2378-TCDF	51207-31-9	0.161	J	0.0375	1.03	1
11031	12378-PeCDF	57117-41-6	0.0636	JB	0.0183	5.17	1
11031	23478-PeCDF	57117-31-4	0.242	JB	0.0175	5.17	1
11031	123478-HxCDF	70648-26-9	0.374	JB	0.0289	5.17	1
11031	123678-HxCDF	57117-44-9	0.0939	JBQ	0.0260	5.17	1
11031	123789-HxCDF	72918-21-9	0.107	JB	0.0219	5.17	1
11031	234678-HxCDF	60851-34-5	0.118	JB	0.0200	5.17	1
11031	1234678-HpCDF	67562-39-4	0.898	JB	0.0222	5.17	1
11031	1234789-HpCDF	55673-89-7	0.104	JB	0.0259	5.17	1
11031	OCDF	39001-02-0	2.26	JB	0.0271	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-184-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-184-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA5DN-SS-0.0-0.5

LLI Sample # SW 6300385
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 15:05

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-184 SDG#: DX093-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11160002	06/13/2011 15:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11160002	06/09/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11158162401B	06/07/2011 21:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB09-SA5DN-SS-052611 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5DN-SS-052611

LLI Sample # WW 6300386
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 12:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-EB9 SDG#: DX093-21EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.164	U	0.164	2.15	1
10915	12378-PeCDD	40321-76-4	0.349	JBQ	0.199	10.8	1
10915	123478-HxCDD	39227-28-6	0.177	U	0.177	10.8	1
10915	123678-HxCDD	57653-85-7	0.287	JBQ	0.186	10.8	1
10915	123789-HxCDD	19408-74-3	0.429	JBQ	0.169	10.8	1
10915	1234678-HpCDD	35822-46-9	5.91	JBQ	0.466	10.8	1
10915	OCDD	3268-87-9	14.2	JB	0.504	21.5	1
10915	2378-TCDF	51207-31-9	0.130	U	0.130	2.15	1
10915	12378-PeCDF	57117-41-6	0.0960	U	0.0960	10.8	1
10915	23478-PeCDF	57117-31-4	0.426	JBQ	0.0842	10.8	1
10915	123478-HxCDF	70648-26-9	0.256	JB	0.123	10.8	1
10915	123678-HxCDF	57117-44-9	0.345	JB	0.117	10.8	1
10915	123789-HxCDF	72918-21-9	0.183	JBQ	0.126	10.8	1
10915	234678-HxCDF	60851-34-5	0.169	JBQ	0.109	10.8	1
10915	1234678-HpCDF	67562-39-4	0.601	JB	0.161	10.8	1
10915	1234789-HpCDF	55673-89-7	0.365	JBQ	0.181	10.8	1
10915	OCDF	39001-02-0	1.12	JBQ	0.453	21.5	1

The recoveries of the labeled compounds were outside QC limits in the initial analysis of this equipment blank. Therefore, the data could not be reported. This equipment blank was re-extracted and the percent recoveries for 2378-TCDF, 12378-PeCDF, and 123678-HxCDF were outside QC limits low (within 2%) in the OPR associated with this sample. There was not sufficient sample to re-extract again so the results from the second extraction were reported.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	47	25 - 181
13C12-123478-HxCDD	46	32 - 141
13C12-123678-HxCDD	45	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	46	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	44	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	42	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB09-SA5DN-SS-052611 Water**
SSFL Area IV Collocated Soil Sampling
EB09-SA5DN-SS-052611

LLI Sample # WW 6300386
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 12:45

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X-EB9 SDG#: DX093-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11171001	06/23/2011 21:19	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11171001	06/22/2011 06:10	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB11-SA8N-SB-052611 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA8N-SB-052611

LLI Sample # WW 6300387
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB11 SDG#: DX093-22EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.301	JBQ	0.300	2.02	1
10915	12378-PeCDD	40321-76-4	0.411	JBQ	0.307	10.1	1
10915	123478-HxCDD	39227-28-6	0.457	JBQ	0.218	10.1	1
10915	123678-HxCDD	57653-85-7	0.323	JBQ	0.232	10.1	1
10915	123789-HxCDD	19408-74-3	0.483	JB	0.220	10.1	1
10915	1234678-HpCDD	35822-46-9	2.70	JB	0.339	10.1	1
10915	OCDD	3268-87-9	6.60	JB	0.344	20.2	1
10915	2378-TCDF	51207-31-9	0.291	U	0.291	2.02	1
10915	12378-PeCDF	57117-41-6	0.247	JBQ	0.185	10.1	1
10915	23478-PeCDF	57117-31-4	0.695	JBQ	0.166	10.1	1
10915	123478-HxCDF	70648-26-9	0.439	JBQ	0.224	10.1	1
10915	123678-HxCDF	57117-44-9	0.204	U	0.204	10.1	1
10915	123789-HxCDF	72918-21-9	0.579	JBQ	0.224	10.1	1
10915	234678-HxCDF	60851-34-5	0.882	JBQ	0.185	10.1	1
10915	1234678-HpCDF	67562-39-4	1.71	JB	0.149	10.1	1
10915	1234789-HpCDF	55673-89-7	0.593	JBQ	0.177	10.1	1
10915	OCDF	39001-02-0	2.18	JB	0.454	20.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	41	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB11-SA8N-SB-052611 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA8N-SB-052611

LLI Sample # WW 6300387
LLI Group # 1248960
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/26/2011 13:00

Submitted: 05/27/2011 09:15
Reported: 06/24/2011 17:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XEB11 SDG#: DX093-22EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11154001	06/07/2011 17:58	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11154001	06/03/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11158162401A	Sample number(s): 6300364-6300367								
Moisture Content by 160.3					100		80-120		
Batch number: 11158162401B	Sample number(s): 6300368-6300373,6300375-6300377,6300379,6300381-6300385								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162401B	Sample number(s): 6300374,6300378,6300380								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11154001	Sample number(s): 6300387								
2378-TCDD	0.343 J	0.294	2.00	pg/l	92		67-158		
12378-PeCDD	1.18 J	0.332	10.0	pg/l	96		70-142		
123478-HxCDD	0.888 J	0.249	10.0	pg/l	96		70-164		
123678-HxCDD	0.712 J	0.265	10.0	pg/l	99		76-134		
123789-HxCDD	1.50 J	0.250	10.0	pg/l	97		64-162		
1234678-HpCDD	3.82 J	0.318	10.0	pg/l	98		70-140		
OCDD	9.88 J	0.354	20.0	pg/l	97		78-144		
2378-TCDF	0.368 J	0.302	2.00	pg/l	97		75-158		
12378-PeCDF	0.895 J	0.188	10.0	pg/l	100		80-134		
23478-PeCDF	0.981 J	0.165	10.0	pg/l	99		68-160		
123478-HxCDF	1.05 J	0.203	10.0	pg/l	99		72-134		
123678-HxCDF	1.06 J	0.193	10.0	pg/l	98		84-130		
123789-HxCDF	1.01 J	0.198	10.0	pg/l	99		78-130		
234678-HxCDF	1.18 J	0.169	10.0	pg/l	98		70-156		
1234678-HpCDF	2.66 J	0.169	10.0	pg/l	99		82-122		
1234789-HpCDF	1.23 J	0.188	10.0	pg/l	97		78-138		
OCDF	3.74 J	0.491	20.0	pg/l	97		63-170		
Batch number: 11160002	Sample number(s): 6300367,6300370,6300373-6300376,6300378,6300380-6300385								
2378-TCDD	0.0262 J	0.0224	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0422 J	0.0220	5.00	ng/kg	90		70-142		
123478-HxCDD	0.0405 J	0.0149	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0321 J	0.0158	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0266 J	0.0141	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.165 J	0.0268	5.00	ng/kg	90		70-140		
OCDD	0.358 J	0.0281	10.0	ng/kg	91		78-144		
2378-TCDF	0.0174 U	0.0174	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0406 J	0.0106	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0851 J	0.0107	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0410 J	0.0153	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0212 J	0.0135	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0765 J	0.0151	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0475 J	0.0113	5.00	ng/kg	90		70-156		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.0916	J	0.00980	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0865	J	0.0168	5.00	ng/kg	92		78-138		
OCDF	0.272	J	0.0394	10.0	ng/kg	92		63-170		
Batch number: 11164002	Sample number(s): 6300364-6300366,6300368-6300369,6300371-6300372,6300377,6300379									
2378-TCDD	0.0312	J	0.0244	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0678	J	0.0214	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0282	J	0.0167	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0834	J	0.0180	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0880	J	0.0175	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.441	J	0.0230	5.00	ng/kg	95		70-140		
OCDD	1.24	J	0.0254	10.0	ng/kg	93		78-144		
2378-TCDF	0.0242	U	0.0242	1.00	ng/kg	91		75-158		
2378-TCDF-Conf	0.0331	J	0.0208	1.00	ng/kg					
12378-PeCDF	0.0398	J	0.0127	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0741	J	0.0132	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0646	J	0.0142	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0428	J	0.0123	5.00	ng/kg	91		84-130		
123789-HxCDF	0.103	J	0.0184	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0484	J	0.0134	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.125	J	0.00890	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.129	J	0.0168	5.00	ng/kg	95		78-138		
OCDF	0.518	J	0.0389	10.0	ng/kg	93		63-170		
Batch number: 11171001	Sample number(s): 6300386									
2378-TCDD	0.172	U	0.172	2.00	pg/l	71		67-158		
12378-PeCDD	0.249	J	0.171	10.0	pg/l	77		70-142		
123478-HxCDD	0.221	U	0.221	10.0	pg/l	80		70-164		
123678-HxCDD	0.363	J	0.229	10.0	pg/l	80		76-134		
123789-HxCDD	0.765	J	0.215	10.0	pg/l	79		64-162		
1234678-HpCDD	6.67	J	0.589	10.0	pg/l	83		70-140		
OCDD	13.7	J	0.607	20.0	pg/l	91		78-144		
2378-TCDF	0.131	U	0.131	2.00	pg/l	74*		75-158		
12378-PeCDF	0.310	J	0.0947	10.0	pg/l	78*		80-134		
23478-PeCDF	0.557	J	0.0826	10.0	pg/l	77		68-160		
123478-HxCDF	0.509	J	0.128	10.0	pg/l	81		72-134		
123678-HxCDF	0.434	J	0.121	10.0	pg/l	82*		84-130		
123789-HxCDF	0.608	J	0.138	10.0	pg/l	81		78-130		
234678-HxCDF	0.530	J	0.117	10.0	pg/l	81		70-156		
1234678-HpCDF	1.14	J	0.239	10.0	pg/l	85		82-122		
1234789-HpCDF	0.982	J	0.284	10.0	pg/l	83		78-138		
OCDF	1.25	J	0.767	20.0	pg/l	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11158162401A	Sample number(s): 6300364-6300367 BKG: P300336								
Moisture Content by 160.3						16.3	15.9	3	20
Batch number: 11158162401B	Sample number(s): 6300368-6300373,6300375-6300377,6300379,6300381-6300385 BKG:								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	P300341								
Moisture Content by 160.3						15.9	15.4	3	20
Batch number: 11160162401B	Sample number(s): 6300374,6300378,6300380 BKG: P298871								
Moisture Content by 160.3						6.4	7.5	17	20
Batch number: 11164002	Sample number(s): 6300364-6300366,6300368-6300369,6300371-6300372,6300377,6300379 UNSPK: 6300364								
2378-TCDD	89	89	67-158	0	25				
12378-PeCDD	93	91	70-142	2	25				
123478-HxCDD	97	94	70-164	3	25				
123678-HxCDD	98	98	76-134	1	25				
123789-HxCDD	96	93	64-162	3	25				
1234678-HpCDD	99	94	70-140	4	25				
OCDD	94	93	78-144	1	25				
2378-TCDF	95	96	75-158	2	25				
12378-PeCDF	96	93	80-134	2	25				
23478-PeCDF	92	96	68-160	4	25				
123478-HxCDF	93	94	72-134	2	25				
123678-HxCDF	91	92	84-130	2	25				
123789-HxCDF	99	93	78-130	6	25				
234678-HxCDF	95	95	70-156	0	25				
1234678-HpCDF	97	94	82-122	2	25				
1234789-HpCDF	99	95	78-138	3	25				
OCDF	94	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11154001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300387	66	62	58	60	64	65
Blank	79	73	67	67	72	74
OPR	78	77	70	72	76	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300387	52	52	41	87	63	65
Blank	60	62	49	98	73	72
OPR	69	69	56	89	78	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300387	64	65	55	42	66	61
Blank	71	74	64	51	77	72
OPR	78	77	71	58	77	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11160002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300367	71	64	27	32	68	64
6300370	66	59	44	52	63	61
6300373	78	71	72	79	76	77
6300374	80	72	50	54	75	77
6300375	78	71	68	72	77	78
6300376	78	70	26	26	75	79
6300378	72	62	46	49	65	63
6300380	88	78	37	42	84	82
6300381	83	75	60	65	80	80
6300382	84	76	63	69	81	85
6300383	79	72	42	44	79	75
6300384	76	68	45	50	72	68
6300385	81	66	52	57	73	75
Blank	67	63	55	61	71	64
OPR	68	63	59	70	70	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300367	46	54	46	87	71	74
6300370	63	53	45	82	65	67
6300373	85	66	57	87	77	81
6300374	57	67	59	88	74	74
6300375	72	69	60	85	74	78
6300376	34	67	58	85	73	69
6300378	55	56	48	76	65	64
6300380	52	69	57	96	84	79
6300381	70	69	59	91	79	82
6300382	70	73	66	90	78	82
6300383	54	70	60	88	74	77
6300384	62	59	52	86	71	76
6300385	61	65	55	86	75	79
Blank	75	57	49	90	69	74
OPR	85	56	50	90	71	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300367	69	75	71	62	64	72
6300370	66	71	68	59	59	66
6300373	80	82	78	67	71	78
6300374	71	77	72	64	77	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

6300375	76	78	75	66	75	74
6300376	66	77	72	63	76	72
6300378	62	69	64	59	68	67
6300380	77	91	82	70	82	86
6300381	81	84	77	66	80	80
6300382	80	83	78	71	80	77
6300383	74	80	76	65	76	74
6300384	74	77	71	63	73	76
6300385	79	82	76	64	72	69
Blank	74	80	72	64	61	68
OPR	77	80	76	68	60	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11164002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300364	69	65	67	79	69	57
6300365	62	59	59	71	63	51
6300366	73	68	70	82	71	64
6300368	71	67	69	78	70	61
6300369	72	69	69	76	70	60
6300371	76	70	73	79	74	63
6300372	77	71	77	77	75	73
6300377	86	100	88	93	91	105
6300379	74	73	68	78	70	69
Blank	81	74	78	90	78	68
MSRE	62	59	59	71	63	51
MSDRE	73	68	70	82	71	64
OPR	70	67	67	73	68	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300364	90	50	38	95	73	76
6300365	81	43	33	85	66	68
6300366	91	50	37	86	76	79
6300368	87	48	36	95	74	74
6300369	83	49	36	95	74	74
6300371	82	53	44	96	76	74
6300372	75	60	49	93	73	75
6300377	107	97	95	103	98	92
6300379	102	68	62	93	79	80
Blank	94	56	46	102	84	90
MSRE	81	43	33	85	66	68
MSDRE	91	50	37	86	76	79
OPR	83	54	41	97	75	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300364	77	75	68	56	63	74
6300365	68	68	61	51	55	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

6300366	76	79	68	55	70	78
6300368	76	75	64	51	65	74
6300369	73	72	62	49	67	76
6300371	76	76	63	55	74	77
6300372	75	77	67	55	77	77
6300377	92	86	106	106	87	99
6300379	78	80	90	86	69	82
Blank	88	89	79	65	73	84
MSRE	68	68	61	51	55	68
MSDRE	76	79	68	55	70	78
OPR	75	75	70	53	62	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6300364	
6300365	
6300366	
6300368	
6300369	
6300371	
6300372	
6300377	
6300379	79
Blank	90
MSRE	
MSDRE	
OPR	
Limits:	24-169

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11171001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6300386	50	46	41	43	46	46
Blank	63	58	55	57	59	60
OPR	72	70	69	70	72	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6300386	42	44	41	82	47	46
Blank	50	51	44	90	59	59
OPR	66	69	64	83	72	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6300386	45	47	46	42	49	44
Blank	56	58	52	45	61	56
OPR	71	73	71	64	69	69

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1248960
Reported: 06/24/11 at 05:25 PM

Surrogate Quality Control

Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct# 13013 LL# 630364-97 GK# 1249960

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-001-SA8N-SB-4.5	5.26.11	1100	SOIL	NONE	4-Encores										X	X											
SL-001-SA8N-SB-4.0-5.0	5.26.11	1105	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-001-SA8N-SB-9.0-10.0	5.26.11	1135	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
SL-002-SA8N-SB-4.5MS	5.26.11	1420	SOIL	NONE	12-Encores										X	X											MS/MSD
SL-002-SA8N-SB-4.0-5.0MS	5.26.11	1420	SOIL	NONE	9-16 oz. Jars	X	X	X	X	X	X	X	X												X		MS/MSD
SL-002-SA8N-SB-9.0-10.0	5.26.11	1450	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-4.5	5.26.11	0910	SOIL	NONE	4-Encores										X	X											
SL-008-SA8N-SB-4.0-5.0	5.26.11	0915	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-008-SA8N-SB-9.0-5100	5.26.11	0940	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
DUP09-SA8N-QC-052611	5.26.11	1445	SOIL	NONE	4-Encores										X	X											
DUP09-SA8N-QC-052611	5.26.11	1445	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
TB-052611	5.26.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (*Signature*) Date/Time: 05/26/2011 / 1700

Received for Laboratory by: (*Signature*) 5/27/11 0915

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) Date/Time

Airbill No.(s): 8754 3340 1787, 1798, 1802, 1813, 1824

Acct# 13013 LL# 6300564-57 GL# 1249960

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-164-SA5DN-SS-0.0-0.5	5.26.11	1555	SOIL	NONE	1-SS Sleeve			X	X																	
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-165-SA5DN-SS-0.0-0.5	5.26.11	1530	SOIL	NONE	1-SS Sleeve			X	X																	
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-170-SA5DN-SS-0.0-0.5	5.26.11	1000	SOIL	NONE	1-SS Sleeve			X	X																	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-171-SA5DN-SS-0.0-0.5	5.26.11	0935	SOIL	NONE	1-SS Sleeve			X	X																	
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-172-SA5DN-SS-0.0-0.5	5.26.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-173-SA5DN-SS-0.0-0.5	5.26.11	1020	SOIL	NONE	1-SS Sleeve			X	X																	
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-174-SA5DN-SS-0.0-0.5	5.26.11	1053	SOIL	NONE	1-SS Sleeve			X	X																	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-175-SA5DN-SS-0.0-0.5	5.26.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-176-SA5DN-SS-0.0-0.5	5.26.11	1135	SOIL	NONE	1-SS Sleeve			X	X																	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-179-SA5DN-SS-0.0-0.5	5.26.11	0850	SOIL	NONE	1-SS Sleeve			X	X																	
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-180-SA5DN-SS-0.0-0.5	5.26.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-181-SA5DN-SS-0.0-0.5	5.26.11	1400	SOIL	NONE	1-SS Sleeve			X	X																	
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-182-SA5DN-SS-0.0-0.5	5.26.11	1425	SOIL	NONE	1-SS Sleeve			X	X																	
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-183-SA5DN-SS-0.0-0.5	5.26.11	1445	SOIL	NONE	1-SS Sleeve			X	X																	
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										
SL-184-SA5DN-SS-0.0-0.5	5.26.11	1505	SOIL	NONE	1-SS Sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/26/2011 / 1700	5/27/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 1787,1798,1802,1813,1824	

Acct# 13013 LL# 630036Y-57 GR# 1245960

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	SS ONLY: *Pesticides EPA 8081A (surface soil only)	SS ONLY: *Herbicides EPA 8151 (surface soil only)	VOCs: VOCs/EPA 8260B $	VOCs: 1,4-Dioxane EPA 8260SIM $	VOCs: TPH-GRO EPA 8015B $	**TPH-E/H EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	12-1 liter ambers			X	X	X				X	X				X			X	X		X			
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-500 mL poly		X				X	X	X															
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HNO3	1-500 mL poly	X																						
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NaOH	1-500 mL poly																			X				
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	1-250 mL jar																X							
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	HCL	2-40 mL vials																							X
EB09-SA5DN-SS-052611	5.26.11	1245	WATER	NONE	4-40 mL vials															X							X	
EB11-SA8N-SB-052611	5.26.11	1300	WATER	NONE	5-1 liter ambers			X	X	X																		
EB11-SA8N-SB-052611	5.26.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X															
EB11-SA8N-SB-052611	5.26.11	1300	WATER	HNO3	1-500 mL poly	X																						
EB11-SA8N-SB-052611	5.26.11	1300	WATER	HNO3	6-40mL Vials											X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/26/2011 / 1700	5/27/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 1787,1798,1802,1813,1824	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/28/2011
Group Number: 1249132
SDG: DE167
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-071-SA5DN-SS-0.0-0.5 Soil	6301472
SL-091-SA5DN-SS-0.0-0.5 Soil	6301473
SL-092-SA5DN-SS-0.0-0.5 Soil	6301474
SL-093-SA5DN-SS-0.0-0.5 Soil	6301475
SL-117-SA5DN-SS-0.0-0.5 Soil	6301476
SL-117-SA5DN-SS-0.0-0.5MS Soil	6301477
SL-117-SA5DN-SS-0.0-0.5MSD Soil	6301478
SL-117-SA5DN-SS-0.0-0.5DUP Soil	6301479
SL-118-SA5DN-SS-0.0-0.5 Soil	6301480
SL-119-SA5DN-SS-0.0-0.5 Soil	6301481
SL-120-SA5DN-SS-0.0-0.5 Soil	6301482
SL-122-SA5DN-SS-0.0-0.5 Soil	6301483
DUP09-SA5DN-QC-052711 Soil	6301484
SL-003-SA8N-SB-4.0-5.0 Soil	6301485
SL-003-SA8N-SB-9.0-10.0 Soil	6301486
TB-052711 Water	6301487

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Miche'le D. Hamilton
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

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--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	3.7	U	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	3.7	U	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	5.1	J	3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	8.7	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.2		5
10138	Chrysene	218-01-9	2.7	J	1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	3.7	U	3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2		5
10138	Pyrene	129-00-0	3.7	U	3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	510		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1
	Target analytes were detected in the method blank associated with the sample as							

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LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

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--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.041	U	0.041	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.42	U	0.42	0.42		1
01363	p,p-DDT	50-29-3	0.82		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.37		1
01363	Endrin Ketone	53494-70-5	0.23	J	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.32	U	0.32	0.32		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.46	U	0.46	0.46		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	2.3		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6301472
LLI Group # 1249132
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--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.53	22.0		1
07914	Boron	7440-42-8	0.978	U	0.978	5.49		1
01650	Calcium	7440-70-2	32,700		6.74	22.0		1
01654	Iron	7439-89-6	25,800		5.18	22.0		1
01656	Lithium	7439-93-2	20.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,930		2.79	11.0		1
06958	Manganese	7439-96-5	347		0.0857	0.549		1
10145	Phosphorus	7723-14-0	495		0.615	11.0		1
01662	Potassium	7440-09-7	4,480		19.8	54.9		1
01667	Sodium	7440-23-5	132		41.0	110		1
07968	Strontium	7440-24-6	68.4		0.0681	0.549		1
06969	Tin	7440-31-5	2.56	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,260		0.418	1.10		1
10146	Zirconium	7440-67-7	3.11	J	0.923	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0640	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.27		0.0854	0.427		2
06126	Barium	7440-39-3	111		0.115	0.427		2
06127	Beryllium	7440-41-7	0.712		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.288		0.0427	0.107		2
06131	Chromium	7440-47-3	24.6		0.128	0.427		2
06132	Cobalt	7440-48-4	8.34		0.0213	0.107		2
06133	Copper	7440-50-8	13.7		0.0704	0.427		2
06135	Lead	7439-92-1	11.1		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.399		0.0533	0.107		2
06139	Nickel	7440-02-0	16.0		0.107	0.427		2
06141	Selenium	7782-49-2	0.177	J	0.0427	0.427		2
06142	Silver	7440-22-4	0.0305	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.283		0.0320	0.107		2
06148	Vanadium	7440-62-2	48.2		0.0235	0.107		2
06149	Zinc	7440-66-6	103		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0036	J	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77	J	0.22	1.1		1

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--071 SDG#: DE167-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 05:41	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 17:40	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 08:28	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 05:07	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 04:16	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:48	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1

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Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301472
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--071 SDG#: DE167-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:59	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:48	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:48	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:48	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 05:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 14:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 13:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	56	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	58	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	68	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	27	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	24	J	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	78	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	43	J	18	360		1
04688	Fluoranthene	206-44-0	120	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	76	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	130	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	3.5	J	1.8	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	13		3.6	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	J	3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	100	U	100	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.19		1
10401	2,4,5-TP	93-72-1	0.10	J	0.082	0.19		1
	Target analytes were detected in the method blank associated with the sample as							

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions. Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4,5-TP represent the lowest reporting limits attainable.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.3	J	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37		1
01363	p,p-DDE	72-55-9	0.79		0.072	0.37		1
01363	p,p-DDT	50-29-3	0.85		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.092	U	0.092	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.050	J	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	6.4		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	3.6		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,200		5.34	21.2		1
07914	Boron	7440-42-8	0.944	U	0.944	5.31		1
01650	Calcium	7440-70-2	5,530		6.50	21.2		1
01654	Iron	7439-89-6	31,300		25.0	106		5
01656	Lithium	7439-93-2	24.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,550		2.70	10.6		1
06958	Manganese	7439-96-5	463		0.0828	0.531		1
10145	Phosphorus	7723-14-0	416		0.594	10.6		1
01662	Potassium	7440-09-7	6,010		19.1	53.1		1
01667	Sodium	7440-23-5	95.2	J	39.6	106		1
07968	Strontium	7440-24-6	31.8		0.0658	0.531		1
06969	Tin	7440-31-5	2.72	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,340		0.403	1.06		1
10146	Zirconium	7440-67-7	3.34	J	0.891	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.171	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.37		0.0849	0.424		2
06126	Barium	7440-39-3	133		0.115	0.424		2
06127	Beryllium	7440-41-7	0.869		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.442		0.0424	0.106		2
06131	Chromium	7440-47-3	29.4		0.127	0.424		2
06132	Cobalt	7440-48-4	9.60		0.0212	0.106		2
06133	Copper	7440-50-8	16.5		0.0700	0.424		2
06135	Lead	7439-92-1	12.3		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.573		0.0531	0.106		2
06139	Nickel	7440-02-0	21.3		0.106	0.424		2
06141	Selenium	7782-49-2	0.161	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0521	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.328		0.0318	0.106		2
06148	Vanadium	7440-62-2	53.7		0.0233	0.106		2
06149	Zinc	7440-66-6	88.7		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0351	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 06:08	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 18:11	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 08:55	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011 23:51	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 05:21	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 04:34	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011 09:15	Maria Davenport	1

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Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:56	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:03	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:51	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:51	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:51	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 05:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 15:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 13:50	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1

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Sample Description: **SL-091-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301473
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--091 SDG#: DE167-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	40	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.5	J	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	12		1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	46		3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	46		3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	68		3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	26		3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	29		3.7	9.3		5
10138	Chrysene	218-01-9	70		1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	8.0	J	3.7	9.3		5
10138	Fluoranthene	206-44-0	110		3.7	9.3		5
10138	Fluorene	86-73-7	6.0	J	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24		3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	64		3.7	9.3		5
10138	Pyrene	129-00-0	92		3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	200	U	200	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.16	U	0.16	0.19		1
10401	2,4,5-TP	93-72-1	0.16	J	0.083	0.19		1
	Target analytes were detected in the method blank associated with the sample as							

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Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions. Due to interfering peaks on the chromatogram, the values reported for MCPA and 2,4,5-T represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	2.7	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.74		0.074	0.38		1
01363	p,p-DDT	50-29-3	1.8		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.71		0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.27	J	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.057	U	0.057	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.8		0.44	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,300		5.56	22.1		1
07914	Boron	7440-42-8	0.985	U	0.985	5.53		1
01650	Calcium	7440-70-2	5,510		6.78	22.1		1
01654	Iron	7439-89-6	29,600		5.21	22.1		1
01656	Lithium	7439-93-2	24.0		0.24	2.2		1
01657	Magnesium	7439-95-4	6,620		2.81	11.1		1
06958	Manganese	7439-96-5	449		0.0863	0.553		1
10145	Phosphorus	7723-14-0	428		0.620	11.1		1
01662	Potassium	7440-09-7	5,810		19.9	55.3		1
01667	Sodium	7440-23-5	89.2	J	41.3	111		1
07968	Strontium	7440-24-6	31.5		0.0686	0.553		1
06969	Tin	7440-31-5	2.66	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,350		0.420	1.11		1
10146	Zirconium	7440-67-7	3.92	J	0.929	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0839	J	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.81		0.0894	0.447		2
06126	Barium	7440-39-3	144		0.121	0.447		2
06127	Beryllium	7440-41-7	0.926		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.446		0.0447	0.112		2
06131	Chromium	7440-47-3	32.2		0.134	0.447		2
06132	Cobalt	7440-48-4	10.5		0.0223	0.112		2
06133	Copper	7440-50-8	16.8		0.0737	0.447		2
06135	Lead	7439-92-1	12.1		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.492		0.0559	0.112		2
06139	Nickel	7440-02-0	22.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.171	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0519	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.328		0.0335	0.112		2
06148	Vanadium	7440-62-2	60.4		0.0246	0.112		2
06149	Zinc	7440-66-6	85.1		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4	0.22	1.1		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.06	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	06:34	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	06:44	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011	09:23	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011	05:34	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	04:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011	14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011	02:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011	18:07	John P Hook	1

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301474
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--092 SDG#: DE167-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:07	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:00	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:00	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:00	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 06:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 15:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 14:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	4.9	J	3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.0		5
10138	Chrysene	218-01-9	5.6	J	1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Fluoranthene	206-44-0	7.8	J	3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Phenanthrene	85-01-8	4.8	J	3.6	9.0		5
10138	Pyrene	129-00-0	7.0	J	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	730		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.15	J	0.082	0.18		1
	Target analytes were detected in the method blank associated with the sample as							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.4	J	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.085	U	0.085	0.37		1
01363	p,p-DDE	72-55-9	0.62		0.072	0.37		1
01363	p,p-DDT	50-29-3	1.3		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.37		1
01363	Endrin Ketone	53494-70-5	0.13	U	0.13	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.062	U	0.062	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	27		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,400		5.29	21.0		1
07914	Boron	7440-42-8	0.935	U	0.935	5.25		1
01650	Calcium	7440-70-2	5,290		6.44	21.0		1
01654	Iron	7439-89-6	30,900		24.7	105		5
01656	Lithium	7439-93-2	24.0		0.23	2.1		1
01657	Magnesium	7439-95-4	6,490		2.67	10.5		1
06958	Manganese	7439-96-5	452		0.0820	0.525		1
10145	Phosphorus	7723-14-0	403		0.588	10.5		1
01662	Potassium	7440-09-7	5,880		18.9	52.5		1
01667	Sodium	7440-23-5	92.0	J	39.2	105		1
07968	Strontium	7440-24-6	29.7		0.0652	0.525		1
06969	Tin	7440-31-5	2.64	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,390		0.399	1.05		1
10146	Zirconium	7440-67-7	3.78	J	0.883	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.62		0.0849	0.424		2
06126	Barium	7440-39-3	139		0.115	0.424		2
06127	Beryllium	7440-41-7	0.866		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.472		0.0424	0.106		2
06131	Chromium	7440-47-3	30.3		0.127	0.424		2
06132	Cobalt	7440-48-4	10.7		0.0212	0.106		2
06133	Copper	7440-50-8	16.5		0.0700	0.424		2
06135	Lead	7439-92-1	12.7		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.520		0.0531	0.106		2
06139	Nickel	7440-02-0	21.5		0.106	0.424		2
06141	Selenium	7782-49-2	0.214	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0473	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.362		0.0318	0.106		2
06148	Vanadium	7440-62-2	56.8		0.0233	0.106		2
06149	Zinc	7440-66-6	82.8		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0127	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95	J	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	07:01	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	07:20	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011	09:50	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011	06:02	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	05:11	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011	14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011	03:03	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011	03:07	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011	18:12	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301475
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--093 SDG#: DE167-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:03	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:03	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:03	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:03	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 06:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 15:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 14:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	130	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	51	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	4.5	J	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	6.7	J	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	7.2	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	7.6	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	6.0	J	3.7	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Fluoranthene	206-44-0	10		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.9	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	4.8	J	3.7	9.2		5
10138	Pyrene	129-00-0	13		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	490	U	490	490		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for MCPA and

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SL-117-SA5DN-SS-0.0-0.5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
2,4,5-TP represent the lowest reporting limits attainable.								
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.3	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.52		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.1		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.18	U	0.18	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.094	U	0.094	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.15	U	0.15	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.095	J	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.44	U	0.44	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	4.0		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	9.8		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	67		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	210		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	2.2	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		5.45	21.7		1
07914	Boron	7440-42-8	0.964	U	0.964	5.42		1
01650	Calcium	7440-70-2	5,500		6.64	21.7		1
01654	Iron	7439-89-6	31,800		25.5	108		5
01656	Lithium	7439-93-2	24.1		0.24	2.2		1
01657	Magnesium	7439-95-4	6,580		2.75	10.8		1
06958	Manganese	7439-96-5	464		0.0845	0.542		1
10145	Phosphorus	7723-14-0	387		0.607	10.8		1
01662	Potassium	7440-09-7	5,780		19.5	54.2		1
01667	Sodium	7440-23-5	101	J	40.4	108		1
07968	Strontium	7440-24-6	31.7		0.0672	0.542		1
06969	Tin	7440-31-5	2.75	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,420		0.412	1.08		1
10146	Zirconium	7440-67-7	4.09	J	0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.24		0.0867	0.433		2
06126	Barium	7440-39-3	138		0.117	0.433		2
06127	Beryllium	7440-41-7	0.889		0.0173	0.108		2

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SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
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--117 SDG#: DE167-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.500		0.0433	0.108		2
06131	Chromium	7440-47-3	31.0		0.130	0.433		2
06132	Cobalt	7440-48-4	9.33		0.0217	0.108		2
06133	Copper	7440-50-8	16.4		0.0715	0.433		2
06135	Lead	7439-92-1	12.6		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.536		0.0542	0.108		2
06139	Nickel	7440-02-0	21.1		0.108	0.433		2
06141	Selenium	7782-49-2	0.195	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0643	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.362		0.0325	0.108		2
06148	Vanadium	7440-62-2	56.6		0.0238	0.108		2
06149	Zinc	7440-66-6	80.2		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0644	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-117-SA5DN-SS-0.0-0.5

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--117 SDG#: DE167-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 12:33	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 07:27	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 15:21	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 03:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 22:31	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 07:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 06:16	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 05:30	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 00:02	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 21:59	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 11:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 14:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 01:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:20	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301476
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:30	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:30	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:30	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:30	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 06:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 06:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 13:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 14:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:46	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,450		184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	920		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,900		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,700		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180		1
04688	Benzoic acid	65-85-0	1,100		180	550		1
04688	Benzyl alcohol	100-51-6	1,700		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,700		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		37	180		1
04688	4-Chloroaniline	106-47-8	1,100		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,400		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,700		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	890		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,700		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,200		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		18	370		1
04688	Fluoranthene	206-44-0	1,600		18	180		1
04688	Fluorene	86-73-7	1,700		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorocyclopentadiene	77-47-4	1,200		180	550		1
04688	Hexachloroethane	67-72-1	1,500		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		18	180		1
04688	Isophorone	78-59-1	1,800		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,600		18	180		1
04688	2-Methylphenol	95-48-7	1,600		37	180		1
04688	4-Methylphenol	106-44-5	1,700		37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		18	180		1
04688	2-Nitroaniline	88-74-4	1,900		18	180		1
04688	3-Nitroaniline	99-09-2	1,700		37	180		1
04688	4-Nitroaniline	100-01-6	1,400		73	180		1
04688	Nitrobenzene	98-95-3	1,800		18	180		1
04688	2-Nitrophenol	88-75-5	1,700		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,100		180	550		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,700		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36		3.7	9.2		5
10138	Acenaphthylene	208-96-8	29		1.8	9.2		5
10138	Anthracene	120-12-7	38		1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	59		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	64		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	74		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	43		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	57		3.7	9.2		5
10138	Butylbenzylphthalate	85-68-7	40	J	33	99		5
10138	Di-n-butylphthalate	84-74-2	38	J	33	99		5
10138	Chrysene	218-01-9	78		1.8	9.2		5

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	35		3.7	9.2		5
10138	Diethylphthalate	84-66-2	34	J	33	99		5
10138	Dimethylphthalate	131-11-3	33	U	33	99		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47	J	33	99		5
10138	Fluoranthene	206-44-0	91		3.7	9.2		5
10138	Fluorene	86-73-7	34		3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	46		3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	34		3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	30		3.7	9.2		5
10138	Naphthalene	91-20-3	33		3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	30		3.7	9.2		5
10138	Di-n-octylphthalate	117-84-0	38	J	33	99		5
10138	Phenanthrene	85-01-8	66		3.7	9.2		5
10138	Pyrene	129-00-0	83		3.7	9.2		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		66	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		44	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		44	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		44	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		44	130		1
10132	HMX	2691-41-0	2,100		110	330		1
10132	Nitrobenzene	98-95-3	2,400		44	130		1
10132	Nitroglycerin	55-63-0	52,000		880	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		88	130		1
10132	3-Nitrotoluene	99-08-1	2,500		110	130		1
10132	4-Nitrotoluene	99-99-0	2,300		88	130		1
10132	PETN	78-11-5	64,000		880	2,700		1
10132	RDX	121-82-4	2,000		55	130		1
10132	Tetryl	479-45-8	2,100		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		44	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		44	130		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.8		1.3	4.0		1
10401	Dalapon	75-99-0	8.9	J	4.9	9.9		1
10401	2,4-DB	94-82-6	3.4		0.69	1.9		1
10401	Dicamba	1918-00-9	0.98	J	0.44	1.3		1
10401	Dinoseb	88-85-7	2.7		0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.88	1.9		1
10401	MCPA	94-74-6	750		84	280		1
10401	MCPP (Mecoprop)	93-65-2	410		83	280		1
10401	2,4,5-T	93-76-5	0.48		0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.55		0.083	0.19		1
Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method								

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
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Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,200		660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.21		0.073	0.19		1
01363	Alpha BHC	319-84-6	0.28		0.038	0.19		1
01363	Beta BHC	319-85-7	0.20		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.038	0.19		1
01363	Chlordane	57-74-9	3.5	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.63		0.073	0.38		1
01363	p,p-DDE	72-55-9	0.75		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.3		0.073	0.38		1
01363	Delta BHC	319-86-8	0.23		0.040	0.19		1
01363	Dieldrin	60-57-1	0.56		0.073	0.38		1
01363	Endosulfan I	959-98-8	0.20		0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.75		0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.34	J	0.073	0.38		1
01363	Endrin	72-20-8	0.55		0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.33	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.41		0.073	0.38		1
01363	Heptachlor	76-44-8	0.36		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.27		0.038	0.19		1
01363	Methoxychlor	72-43-5	3.1		0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.5	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	16		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	20		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	7.1		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	46		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	210		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,700		110	550		1
10501	Isopropanol	67-63-0	1,900		110	550		1
10501	Methanol	67-56-1	1,800		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	100		5.5	11		1
08283	Ethylene glycol	107-21-1	160		5.5	11		1
08283	Propylene glycol	57-55-6	160		5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.4	3.9		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	2.7	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,300		5.40	21.5		1
07914	Boron	7440-42-8	203		0.955	5.36		1
01650	Calcium	7440-70-2	5,860		6.58	21.5		1
01654	Iron	7439-89-6	32,200		25.3	107		5
01656	Lithium	7439-93-2	128		0.24	2.1		1
01657	Magnesium	7439-95-4	6,840		2.72	10.7		1
06958	Manganese	7439-96-5	517		0.0837	0.536		1
10145	Phosphorus	7723-14-0	479		0.601	10.7		1
01662	Potassium	7440-09-7	7,250		19.3	53.6		1
01667	Sodium	7440-23-5	1,100		40.0	107		1
07968	Strontium	7440-24-6	132		0.0665	0.536		1
06969	Tin	7440-31-5	350		1.07	10.7		1
06970	Titanium	7440-32-6	1,620		0.408	1.07		1
10146	Zirconium	7440-67-7	100		0.901	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.505		0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.68		0.0875	0.438		2
06126	Barium	7440-39-3	150		0.118	0.438		2
06127	Beryllium	7440-41-7	1.43		0.0175	0.109		2

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.53	0.0438	0.109		2
06131	Chromium	7440-47-3	40.9	0.131	0.438		2
06132	Cobalt	7440-48-4	61.7	0.0219	0.109		2
06133	Copper	7440-50-8	26.5	0.0722	0.438		2
06135	Lead	7439-92-1	17.3	0.0114	0.219		2
06138	Molybdenum	7439-98-7	10.5	0.0547	0.109		2
06139	Nickel	7440-02-0	31.9	0.109	0.438		2
06141	Selenium	7782-49-2	2.28	0.0438	0.438		2
06142	Silver	7440-22-4	11.0	0.0131	0.109		2
06145	Thallium	7440-28-0	0.779	0.0328	0.109		2
06148	Vanadium	7440-62-2	67.6	0.0241	0.109		2
06149	Zinc	7440-66-6	89.9	0.613	3.28		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.280	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.9	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.7	0.88	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	595	9.9	33.1		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	43.6	1.1	5.5		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.4	0.20	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 12:51	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 07:54	Mark A Clark	1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
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--117 SDG#: DE167-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 16:29	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 04:38	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 22:50	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 07:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 06:29	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 05:48	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 00:27	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:14	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 11:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 15:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:37	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 14:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301477
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 14:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:39	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:39	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:39	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 07:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 14:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 14:51	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:49	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,250		184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180		1
04688	Acenaphthylene	208-96-8	1,800		18	180		1
04688	Aniline	62-53-3	920		180	550		1
04688	Anthracene	120-12-7	1,800		18	180		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180		1
04688	Benzo(a)pyrene	50-32-8	1,600		18	180		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		18	180		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		18	180		1
04688	Benzoic acid	65-85-0	1,200		180	550		1
04688	Benzyl alcohol	100-51-6	1,700		180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		18	180		1
04688	Butylbenzylphthalate	85-68-7	2,000		18	180		1
04688	Di-n-butylphthalate	84-74-2	1,700		18	180		1
04688	Carbazole	86-74-8	1,800		18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		37	180		1
04688	4-Chloroaniline	106-47-8	1,100		73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800		18	180		1
04688	2-Chloronaphthalene	91-58-7	1,500		18	180		1
04688	2-Chlorophenol	95-57-8	1,700		18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180		1
04688	Chrysene	218-01-9	1,800		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500		18	180		1
04688	Dibenzofuran	132-64-9	1,800		18	180		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		18	180		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		18	180		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,700		18	180		1
04688	Diethylphthalate	84-66-2	1,800		18	180		1
04688	2,4-Dimethylphenol	105-67-9	1,600		37	180		1
04688	3,5-Dimethylphenol	108-68-9	1,800		37	180		1
04688	Dimethylphthalate	131-11-3	1,800		18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		180	550		1
04688	2,4-Dinitrophenol	51-28-5	1,300		370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	180		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000		18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		18	370		1
04688	Fluoranthene	206-44-0	1,600		18	180		1
04688	Fluorene	86-73-7	1,800		18	180		1
04688	Hexachlorobenzene	118-74-1	1,800		18	180		1
04688	Hexachlorobutadiene	87-68-3	1,700		73	180		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorocyclopentadiene	77-47-4	530	J	180	550		1
04688	Hexachloroethane	67-72-1	1,300		18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		18	180		1
04688	Isophorone	78-59-1	1,800		18	180		1
04688	1-Methylnaphthalene	90-12-0	1,700		18	180		1
04688	2-Methylnaphthalene	91-57-6	1,700		18	180		1
04688	2-Methylphenol	95-48-7	1,600		37	180		1
04688	4-Methylphenol	106-44-5	1,600		37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		18	180		1
04688	2-Nitroaniline	88-74-4	1,900		18	180		1
04688	3-Nitroaniline	99-09-2	1,800		37	180		1
04688	4-Nitroaniline	100-01-6	1,400		73	180		1
04688	Nitrobenzene	98-95-3	1,900		18	180		1
04688	2-Nitrophenol	88-75-5	1,800		18	180		1
04688	4-Nitrophenol	100-02-7	1,600		180	550		1
04688	N-Nitrosodimethylamine	62-75-9	1,600		37	180		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		18	180		1
04688	Pentachlorophenol	87-86-5	1,400		180	550		1
04688	Phenanthrene	85-01-8	1,700		18	180		1
04688	Phenol	108-95-2	1,700		18	180		1
04688	Pyrene	129-00-0	1,700		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31		3.6	9.1		5
10138	Acenaphthylene	208-96-8	28		1.8	9.1		5
10138	Anthracene	120-12-7	36		1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	37		3.6	9.1		5
10138	Benzo(a)pyrene	50-32-8	36		3.6	9.1		5
10138	Benzo(b)fluoranthene	205-99-2	41		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	31		3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	35		3.6	9.1		5
10138	Butylbenzylphthalate	85-68-7	37	J	33	98		5
10138	Di-n-butylphthalate	84-74-2	36	J	33	98		5
10138	Chrysene	218-01-9	54		1.8	9.1		5

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dibenz(a,h)anthracene	53-70-3	30		3.6	9.1		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46	J	33	98		5
10138	Fluoranthene	206-44-0	38		3.6	9.1		5
10138	Fluorene	86-73-7	33		3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	30		3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	32		3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	29		3.6	9.1		5
10138	Naphthalene	91-20-3	31		3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	29		3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	39	J	33	98		5
10138	Phenanthrene	85-01-8	33		3.6	9.1		5
10138	Pyrene	129-00-0	39		3.6	9.1		5
Reporting limits were raised due to interference from the sample matrix.								
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		66	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		44	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,400		44	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		44	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,300		44	130		1
10132	HMX	2691-41-0	2,100		110	330		1
10132	Nitrobenzene	98-95-3	2,300		44	130		1
10132	Nitroglycerin	55-63-0	51,000		880	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		88	130		1
10132	3-Nitrotoluene	99-08-1	2,400		110	130		1
10132	4-Nitrotoluene	99-99-0	2,300		88	130		1
10132	PETN	78-11-5	64,000		880	2,700		1
10132	RDX	121-82-4	2,000		55	130		1
10132	Tetryl	479-45-8	2,100		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		44	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		44	130		1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	7.1		1.3	4.0		1
10401	Dalapon	75-99-0	9.7	J	4.8	9.9		1
10401	2,4-DB	94-82-6	3.7		0.69	1.9		1
10401	Dicamba	1918-00-9	0.66	J	0.44	1.3		1
10401	Dinoseb	88-85-7	2.5	J	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	10		0.87	1.9		1
10401	MCPA	94-74-6	820		83	270		1
10401	MCPP (Mecoprop)	93-65-2	360		82	270		1
10401	2,4,5-T	93-76-5	0.52		0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.57		0.083	0.19		1
Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method								

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,200		660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.18	J	0.073	0.19		1
01363	Alpha BHC	319-84-6	0.25		0.038	0.19		1
01363	Beta BHC	319-85-7	0.19		0.066	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.27		0.038	0.19		1
01363	Chlordane	57-74-9	3.5	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.53		0.073	0.38		1
01363	p,p-DDE	72-55-9	1.1		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.5		0.073	0.38		1
01363	Delta BHC	319-86-8	0.22		0.040	0.19		1
01363	Dieldrin	60-57-1	0.52		0.073	0.38		1
01363	Endosulfan I	959-98-8	0.15	J	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.51		0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.35	J	0.073	0.38		1
01363	Endrin	72-20-8	0.48		0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.32	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.45		0.073	0.38		1
01363	Heptachlor	76-44-8	0.34		0.066	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.038	0.19		1
01363	Methoxychlor	72-43-5	2.8		0.38	1.8		1
01363	Mirex	2385-85-5	0.096	J	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	14		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	23		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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--117 SDG#: DE167-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	9.2		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	34		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	160		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,800		110	550		1
10501	Isopropanol	67-63-0	1,900		110	550		1
10501	Methanol	67-56-1	1,900		110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	92		5.5	11		1
08283	Ethylene glycol	107-21-1	140		5.5	11		1
08283	Propylene glycol	57-55-6	140		5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5		1.4	1.4		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	3.9		1
10318	p-Terphenyl	92-94-4	3.4	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,900		5.56	22.1		1
07914	Boron	7440-42-8	213		0.983	5.52		1
01650	Calcium	7440-70-2	5,910		6.77	22.1		1
01654	Iron	7439-89-6	29,400		5.20	22.1		1
01656	Lithium	7439-93-2	131		0.24	2.2		1
01657	Magnesium	7439-95-4	6,790		2.81	11.0		1
06958	Manganese	7439-96-5	454		0.0862	0.552		1
10145	Phosphorus	7723-14-0	476		0.619	11.0		1
01662	Potassium	7440-09-7	7,170		19.9	55.2		1
01667	Sodium	7440-23-5	1,160		41.2	110		1
07968	Strontium	7440-24-6	136		0.0685	0.552		1
06969	Tin	7440-31-5	368		1.10	11.0		1
06970	Titanium	7440-32-6	1,670		0.420	1.10		1
10146	Zirconium	7440-67-7	103		0.928	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.565		0.0663	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.62		0.0884	0.442		2
06126	Barium	7440-39-3	153		0.119	0.442		2
06127	Beryllium	7440-41-7	1.73		0.0177	0.110		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

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--117 SDG#: DE167-05MSD

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium		7440-43-9	1.62	0.0442	0.110		2
06131	Chromium		7440-47-3	41.8	0.133	0.442		2
06132	Cobalt		7440-48-4	62.0	0.0221	0.110		2
06133	Copper		7440-50-8	27.3	0.0729	0.442		2
06135	Lead		7439-92-1	16.0	0.0115	0.221		2
06138	Molybdenum		7439-98-7	10.2	0.0552	0.110		2
06139	Nickel		7440-02-0	32.9	0.110	0.442		2
06141	Selenium		7782-49-2	2.28	0.0442	0.442		2
06142	Silver		7440-22-4	11.0	0.0133	0.110		2
06145	Thallium		7440-28-0	0.798	0.0331	0.110		2
06148	Vanadium		7440-62-2	69.9	0.0243	0.110		2
06149	Zinc		7440-66-6	92.9	0.619	3.31		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.260	0.0030	0.106		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3		n.a.	9.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 13:08	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 08:20	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/17/2011 17:00	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 05:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 22:59	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 08:00	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 06:43	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 06:07	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 00:52	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:29	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 12:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 16:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:40	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:42	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:42	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301478
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:42	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301479
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		5.45	21.7		1
07914	Boron	7440-42-8	0.964	U	0.964	5.42		1
01650	Calcium	7440-70-2	5,250		6.64	21.7		1
01654	Iron	7439-89-6	31,600		25.5	108		5
01656	Lithium	7439-93-2	25.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,530		2.75	10.8		1
06958	Manganese	7439-96-5	446		0.0845	0.542		1
10145	Phosphorus	7723-14-0	418		0.607	10.8		1
01662	Potassium	7440-09-7	5,850		19.5	54.2		1
01667	Sodium	7440-23-5	99.1	J	40.4	108		1
07968	Strontium	7440-24-6	30.0		0.0672	0.542		1
06969	Tin	7440-31-5	2.82	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,410		0.412	1.08		1
10146	Zirconium	7440-67-7	4.97	J	0.910	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0637	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0850	0.425		2
06126	Barium	7440-39-3	138		0.115	0.425		2
06127	Beryllium	7440-41-7	0.918		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.507		0.0425	0.106		2
06131	Chromium	7440-47-3	31.2		0.127	0.425		2
06132	Cobalt	7440-48-4	9.97		0.0212	0.106		2
06133	Copper	7440-50-8	17.6		0.0701	0.425		2
06135	Lead	7439-92-1	13.3		0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.539		0.0531	0.106		2
06139	Nickel	7440-02-0	21.8		0.106	0.425		2
06141	Selenium	7782-49-2	0.210	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0448	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.355		0.0319	0.106		2
06148	Vanadium	7440-62-2	58.7		0.0234	0.106		2
06149	Zinc	7440-66-6	85.7		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.56		0.0150	0.522		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.22	1.1		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-117-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301479
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 02:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 02:34	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 17:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/10/2011 23:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-117-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301479
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

--117 SDG#: DE167-05DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111571026008C	06/10/2011 23:36	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/10/2011 23:36	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/10/2011 23:36	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 20:49	Nelli S Markaryan	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 06:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 06:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 13:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243201A	06/07/2011 15:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:48	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	380		183	367		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	23	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	25	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	18	360		1
04688	Fluoranthene	206-44-0	40	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1

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Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenanthrene	85-01-8	24	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	41	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	1.6	J	0.37	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	29		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	7.7		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	11		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	36		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.4		0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.5		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	5.2	U	5.2	5.2		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	280		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

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SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

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-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.88	U	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.076	J	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.19	J	0.073	0.37		1
01363	p,p-DDT	50-29-3	0.16	J	0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.31	J	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: p,p-DDD.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1

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Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	5.4		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	13		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,300		5.48	21.8		1
07914	Boron	7440-42-8	0.969	U	0.969	5.45		1
01650	Calcium	7440-70-2	4,920		6.68	21.8		1
01654	Iron	7439-89-6	27,300		5.13	21.8		1
01656	Lithium	7439-93-2	21.3		0.24	2.2		1
01657	Magnesium	7439-95-4	6,020		2.77	10.9		1
06958	Manganese	7439-96-5	484		0.0850	0.545		1
10145	Phosphorus	7723-14-0	392		0.610	10.9		1
01662	Potassium	7440-09-7	5,750		19.6	54.5		1
01667	Sodium	7440-23-5	95.6	J	40.6	109		1
07968	Strontium	7440-24-6	29.6		0.0675	0.545		1
06969	Tin	7440-31-5	2.65	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,390		0.414	1.09		1
10146	Zirconium	7440-67-7	3.47	J	0.915	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0647	0.216		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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-118- SDG#: DE167-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	5.16		0.0863	0.431		2
06126	Barium	7440-39-3	127		0.116	0.431		2
06127	Beryllium	7440-41-7	0.808		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.465		0.0431	0.108		2
06131	Chromium	7440-47-3	26.6		0.129	0.431		2
06132	Cobalt	7440-48-4	9.87		0.0216	0.108		2
06133	Copper	7440-50-8	15.5		0.0712	0.431		2
06135	Lead	7439-92-1	9.91		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.548		0.0539	0.108		2
06139	Nickel	7440-02-0	19.8		0.108	0.431		2
06141	Selenium	7782-49-2	0.185	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0376	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.354		0.0324	0.108		2
06148	Vanadium	7440-62-2	50.3		0.0237	0.108		2
06149	Zinc	7440-66-6	68.9		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0247	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 13:26	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 08:46	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 07:51	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 06:03	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:09	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 10:18	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 07:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 06:25	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/07/2011 23:12	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 12:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 13:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:18	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:16	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:06	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:06	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:06	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:06	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205A	06/05/2011 06:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205A	06/05/2011 06:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 16:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 15:54	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 18:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205A	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-118-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301480
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-118- SDG#: DE167-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	252	J	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.2		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	4.8		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	3.1		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.76	U	0.76	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	670		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	5.6		0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.31	J	0.073	0.38		1
01363	p,p-DDT	50-29-3	1.4		0.073	0.38		1
01363	Delta BHC	319-86-8	0.086	J	0.040	0.18		1
01363	Dieldrin	60-57-1	0.84	U	0.84	0.84		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.10	U	0.10	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS.
Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.4	U	4.4	13		10
10199	EFH (C15-C20)	n.a.	12	J	4.4	13		10
10199	EFH (C21-C30)	n.a.	88		4.4	13		10
10199	EFH (C30 - C40)	n.a.	490		4.4	13		10
10199	EFH (C8-C11)	n.a.	4.4	U	4.4	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	8.3	U	8.3	19		5
10318	o-Terphenyl	84-15-1	8.3	U	8.3	19		5
10318	p-Terphenyl	92-94-4	12	J	8.3	19		5
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,000		5.36	21.3		1
07914	Boron	7440-42-8	0.949	U	0.949	5.33		1
01650	Calcium	7440-70-2	5,150		6.53	21.3		1
01654	Iron	7439-89-6	26,300		5.02	21.3		1
01656	Lithium	7439-93-2	22.1		0.23	2.1		1
01657	Magnesium	7439-95-4	6,030		2.71	10.7		1
06958	Manganese	7439-96-5	463		0.0831	0.533		1
10145	Phosphorus	7723-14-0	404		0.597	10.7		1
01662	Potassium	7440-09-7	5,710		19.2	53.3		1
01667	Sodium	7440-23-5	87.5	J	39.8	107		1
07968	Strontium	7440-24-6	28.6		0.0661	0.533		1
06969	Tin	7440-31-5	2.59	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,350		0.405	1.07		1
10146	Zirconium	7440-67-7	2.94	J	0.895	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0646	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0861	0.431		2
06126	Barium	7440-39-3	141		0.116	0.431		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.886		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.901		0.0431	0.108		2
06131	Chromium	7440-47-3	29.1		0.129	0.431		2
06132	Cobalt	7440-48-4	9.51		0.0215	0.108		2
06133	Copper	7440-50-8	17.9		0.0710	0.431		2
06135	Lead	7439-92-1	12.5		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.524		0.0538	0.108		2
06139	Nickel	7440-02-0	21.5		0.108	0.431		2
06141	Selenium	7782-49-2	0.184	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0569	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.341		0.0323	0.108		2
06148	Vanadium	7440-62-2	53.5		0.0237	0.108		2
06149	Zinc	7440-66-6	106		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0644	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.1		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 13:43	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 09:13	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 08:28	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 06:45	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:18	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 10:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 07:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 06:44	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 01:41	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 22:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/07/2011 02:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/10/2011 18:23	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1

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Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301481
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-119- SDG#: DE167-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:20	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:09	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:09	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:09	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:09	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 07:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 16:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:05	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:53	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	320	J	183	366		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)pyrene	50-32-8	26	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	66	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	130	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	890		18	370		1
04688	Fluoranthene	206-44-0	48	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	41	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	46	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	3.5	J	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	9.8		3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	17		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	7.5	J	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	7.7	J	3.6	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	J	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	680		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.

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Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
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-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	9.3		0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.39		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.4		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	2.9	U	2.9	2.9		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.12	U	0.12	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	12	J	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	30		2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

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SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

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-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	12		2.2	6.6		5
10199	EFH (C21-C30)	n.a.	52		2.2	6.6		5
10199	EFH (C30 - C40)	n.a.	160		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	3.3	U	3.3	7.7		2
10318	o-Terphenyl	84-15-1	3.3	U	3.3	7.7		2
10318	p-Terphenyl	92-94-4	6.6	J	3.3	7.7		2
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		5.31	21.1		1
07914	Boron	7440-42-8	0.940	U	0.940	5.28		1
01650	Calcium	7440-70-2	5,330		6.48	21.1		1
01654	Iron	7439-89-6	31,600		24.9	106		5
01656	Lithium	7439-93-2	23.3		0.23	2.1		1
01657	Magnesium	7439-95-4	6,350		2.68	10.6		1
06958	Manganese	7439-96-5	488		0.0824	0.528		1
10145	Phosphorus	7723-14-0	375		0.592	10.6		1
01662	Potassium	7440-09-7	5,560		19.0	52.8		1
01667	Sodium	7440-23-5	92.5	J	39.4	106		1
07968	Strontium	7440-24-6	29.9		0.0655	0.528		1
06969	Tin	7440-31-5	2.79	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,220		0.402	1.06		1
10146	Zirconium	7440-67-7	3.04	J	0.888	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0879	0.440		2
06126	Barium	7440-39-3	134		0.119	0.440		2

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Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.803		0.0176	0.110		2
06128	Cadmium	7440-43-9	2.02		0.0440	0.110		2
06131	Chromium	7440-47-3	29.4		0.132	0.440		2
06132	Cobalt	7440-48-4	9.84		0.0220	0.110		2
06133	Copper	7440-50-8	18.1		0.0725	0.440		2
06135	Lead	7439-92-1	16.4		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.622		0.0549	0.110		2
06139	Nickel	7440-02-0	21.8		0.110	0.440		2
06141	Selenium	7782-49-2	0.156	J	0.0440	0.440		2
06142	Silver	7440-22-4	0.268		0.0132	0.110		2
06145	Thallium	7440-28-0	0.326		0.0330	0.110		2
06148	Vanadium	7440-62-2	50.8		0.0242	0.110		2
06149	Zinc	7440-66-6	186		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.461		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 14:01	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 09:39	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 08:59	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 07:28	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:28	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 13:04	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 07:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 08:16	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/08/2011 01:17	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 23:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/07/2011 02:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/10/2011 20:37	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:25	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 03:29	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1

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Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301482
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-120- SDG#: DE167-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:12	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:12	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:12	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:12	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 07:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 17:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:15	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:55	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Anthracene	120-12-7	43	J	20	200		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	390		20	200		1
04688	Benzo(a)pyrene	50-32-8	270		20	200		1
04688	Benzo(b)fluoranthene	205-99-2	380		20	200		1
04688	Benzo(g,h,i)perylene	191-24-2	140	J	20	200		1
04688	Benzo(k)fluoranthene	207-08-9	170	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	28	J	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Chrysene	218-01-9	360		20	200		1
04688	Dibenz(a,h)anthracene	53-70-3	43	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	48	J	20	390		1
04688	Fluoranthene	206-44-0	570		20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	180	J	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1

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Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	590		20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	24		3.9	9.8		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	9.8		5
10138	Fluorene	86-73-7	13		3.9	9.8		5
10138	1-Methylnaphthalene	90-12-0	3.9	U	3.9	9.8		5
10138	2-Methylnaphthalene	91-57-6	3.9	U	3.9	9.8		5
10138	Naphthalene	91-20-3	3.9	U	3.9	9.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.9	U	3.9	9.8		5
10138	Phenanthrene	85-01-8	190		3.9	9.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	4.2		1
10401	Dalapon	75-99-0	5.2	U	5.2	11		1
10401	2,4-DB	94-82-6	0.93	U	0.93	2.0		1
10401	Dicamba	1918-00-9	0.47	U	0.47	1.4		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.94	U	0.94	2.0		1
10401	MCPA	94-74-6	450	U	450	450		1
10401	MCPP (Mecoprop)	93-65-2	88	U	88	290		1
10401	2,4,5-T	93-76-5	0.096	U	0.096	0.20		1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions. Due to interfering peaks on the chromatogram, the values reported for MCPA, 2,4-DB and 2,4,5-TP represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.078	U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040	U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071	U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.20		1
01363	Chlordane	57-74-9	3.0	J	0.95	4.0		1
01363	p,p-DDD	72-54-8	0.17	U	0.17	0.40		1
01363	p,p-DDE	72-55-9	0.50		0.078	0.40		1
01363	p,p-DDT	50-29-3	1.3		0.078	0.40		1
01363	Delta BHC	319-86-8	0.043	U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.078	U	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052	U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.078	U	0.078	0.40		1
01363	Endrin	72-20-8	0.078	U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.40		1
01363	Endrin Ketone	53494-70-5	0.078	U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.071	U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.22		1
01363	Methoxychlor	72-43-5	0.40	U	0.40	2.0		1
01363	Mirex	2385-85-5	0.26	U	0.26	0.40		1
01363	Toxaphene	8001-35-2	2.6	U	2.6	7.8		1
	The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	4.1		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.9	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,000		5.95	23.6		1
07914	Boron	7440-42-8	1.05	U	1.05	5.91		1
01650	Calcium	7440-70-2	5,780		7.25	23.6		1
01654	Iron	7439-89-6	35,300		27.8	118		5
01656	Lithium	7439-93-2	25.4		0.26	2.4		1
01657	Magnesium	7439-95-4	7,140		3.00	11.8		1
06958	Manganese	7439-96-5	473		0.0922	0.591		1
10145	Phosphorus	7723-14-0	402		0.662	11.8		1
01662	Potassium	7440-09-7	5,770		21.3	59.1		1
01667	Sodium	7440-23-5	96.5	J	44.1	118		1
07968	Strontium	7440-24-6	36.0		0.0733	0.591		1
06969	Tin	7440-31-5	3.07	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,620		2.25	5.91		5
10146	Zirconium	7440-67-7	4.09	J	0.993	5.91		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0682	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.31		0.0909	0.455		2
06126	Barium	7440-39-3	148		0.123	0.455		2
06127	Beryllium	7440-41-7	1.07		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.486		0.0455	0.114		2
06131	Chromium	7440-47-3	32.6		0.136	0.455		2
06132	Cobalt	7440-48-4	10.4		0.0227	0.114		2
06133	Copper	7440-50-8	19.3		0.0750	0.455		2
06135	Lead	7439-92-1	14.4		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.500		0.0568	0.114		2
06139	Nickel	7440-02-0	22.9		0.114	0.455		2
06141	Selenium	7782-49-2	0.213	J	0.0455	0.455		2
06142	Silver	7440-22-4	0.0558	J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.376		0.0341	0.114		2
06148	Vanadium	7440-62-2	61.9		0.0250	0.114		2
06149	Zinc	7440-66-6	84.4		0.636	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.95	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.6	U	10.6	35.5		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.72	J	0.24	1.2		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	6.76		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	10:06	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	09:39	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011	13:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011	08:06	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	08:35	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011	14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/09/2011	03:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011	03:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011	18:29	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011	11:47	Joanne M Gates	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301483
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-122- SDG#: DE167-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/09/2011 03:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/09/2011 03:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/09/2011 11:47	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:29	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:15	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:15	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:15	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:15	David K Beck	2
00159	Mercury	SW-846 7471A	2	111615711001	06/13/2011 20:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 07:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 17:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401A	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1

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Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	5.0	J	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	47		3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	40		3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	67		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	13		3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	36		3.7	9.2		5
10138	Chrysene	218-01-9	46		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	5.3	J	3.7	9.2		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	68	J	33	99		5
10138	Fluoranthene	206-44-0	96		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	14		3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Phenanthrene	85-01-8	25		3.7	9.2		5
10138	Pyrene	129-00-0	76		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1

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SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	400		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extractions.
Due to interfering peaks on the chromatogram, the values reported for 2,4,5-TP

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DUP09-SA5DN-QC-052711

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DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
represent the lowest reporting limits attainable.								
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.1	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.47		0.073	0.38		1
01363	p,p-DDT	50-29-3	0.97		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.14	U	0.14	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.090	U	0.090	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.061	U	0.061	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.26	J	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

The TCX surrogate data is outside the QC limits in the method blank and LCS. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	5.0		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	6.1		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.7		2
10199	EFH (C15-C20)	n.a.	9.8		0.88	2.7		2
10199	EFH (C21-C30)	n.a.	30		0.88	2.7		2
10199	EFH (C30 - C40)	n.a.	72		0.88	2.7		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	J	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000		5.34	21.2		1
07914	Boron	7440-42-8	0.946	U	0.946	5.31		1
01650	Calcium	7440-70-2	5,290		6.51	21.2		1
01654	Iron	7439-89-6	32,300		25.0	106		5
01656	Lithium	7439-93-2	23.2		0.23	2.1		1
01657	Magnesium	7439-95-4	6,500		2.70	10.6		1
06958	Manganese	7439-96-5	503		0.0829	0.531		1
10145	Phosphorus	7723-14-0	396		0.595	10.6		1
01662	Potassium	7440-09-7	5,660		19.1	53.1		1
01667	Sodium	7440-23-5	92.8	J	39.6	106		1
07968	Strontium	7440-24-6	30.6		0.0659	0.531		1
06969	Tin	7440-31-5	2.59	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,350		0.404	1.06		1
10146	Zirconium	7440-67-7	3.46	J	0.892	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0656	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.39		0.0875	0.438		2
06126	Barium	7440-39-3	134		0.118	0.438		2
06127	Beryllium	7440-41-7	0.897		0.0175	0.109		2

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SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
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DUP-9 SDG#: DE167-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.489		0.0438	0.109		2
06131	Chromium	7440-47-3	29.3		0.131	0.438		2
06132	Cobalt	7440-48-4	9.49		0.0219	0.109		2
06133	Copper	7440-50-8	16.6		0.0722	0.438		2
06135	Lead	7439-92-1	13.6		0.0114	0.219		2
06138	Molybdenum	7439-98-7	0.519		0.0547	0.109		2
06139	Nickel	7440-02-0	21.0		0.109	0.438		2
06141	Selenium	7782-49-2	0.193	J	0.0438	0.438		2
06142	Silver	7440-22-4	0.0556	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.354		0.0328	0.109		2
06148	Vanadium	7440-62-2	54.9		0.0241	0.109		2
06149	Zinc	7440-66-6	78.8		0.613	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0407	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
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Project Name: SSFL Area IV Collocated Soil Sampling

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DUP-9 SDG#: DE167-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLC026	06/20/2011 14:18	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 10:33	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 10:17	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLC026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111510007A	06/04/2011 08:10	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111520003A	06/03/2011 23:37	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111570016A	06/09/2011 13:59	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540006A	06/16/2011 08:19	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 08:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540006A	06/03/2011 14:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111570016A	06/07/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111520003A	06/01/2011 13:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111510007A	05/31/2011 16:00	Kelli M Barto	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111570011A	06/07/2011 23:37	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111510033A	05/31/2011 23:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 15:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111540013A	06/07/2011 16:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111570011A	06/06/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111540013A	06/04/2011 08:35	JoElla L Rice	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111510033A	05/31/2011 19:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 03:40	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301484
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP-9 SDG#: DE167-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:33	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:18	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:18	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:18	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:18	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 08:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11154373205B	06/05/2011 08:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203A	06/13/2011 18:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:43	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:56	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203A	06/06/2011 15:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.4	8.9		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.94
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.4		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.94
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.94
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.94
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.94
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.4		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.94
06192	Chloromethane	74-87-3	0.37	U	0.37	4.4		0.94
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.4		0.94
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.4		0.94
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.4		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.94
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.4		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.94
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.94
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.94
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.4		0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.94
06192	Methylene Chloride	75-09-2	1.1	J	0.27	4.4		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.94

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.4		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.4		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.94
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.4		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.94
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.8	U	5.8	17		24.37
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,300		5.90	23.5		1
07914	Boron	7440-42-8	1.04	U	1.04	5.87		1
01650	Calcium	7440-70-2	9,540		7.19	23.5		1
01654	Iron	7439-89-6	38,800		27.6	117		5
01656	Lithium	7439-93-2	28.8		0.26	2.3		1
01657	Magnesium	7439-95-4	8,290		2.98	11.7		1
06958	Manganese	7439-96-5	442		0.0915	0.587		1
10145	Phosphorus	7723-14-0	313		0.657	11.7		1
01662	Potassium	7440-09-7	4,240		21.1	58.7		1
01667	Sodium	7440-23-5	120		43.8	117		1
07968	Strontium	7440-24-6	48.2		0.0727	0.587		1
06969	Tin	7440-31-5	2.76	J	1.17	11.7		1
06970	Titanium	7440-32-6	1,070		0.446	1.17		1
10146	Zirconium	7440-67-7	2.43	J	0.985	5.87		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.116	J	0.0677	0.226		2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.88	0.0903	0.451		2
06126	Barium	7440-39-3	139	0.122	0.451		2
06127	Beryllium	7440-41-7	1.03	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.240	0.0451	0.113		2
06131	Chromium	7440-47-3	36.1	0.135	0.451		2
06132	Cobalt	7440-48-4	11.2	0.0226	0.113		2
06133	Copper	7440-50-8	17.6	0.0745	0.451		2
06135	Lead	7439-92-1	10.6	0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.379	0.0564	0.113		2
06139	Nickel	7440-02-0	25.4	0.113	0.451		2
06141	Selenium	7782-49-2	0.140 J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0394 J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.385	0.0339	0.113		2
06148	Vanadium	7440-62-2	66.4	0.0248	0.113		2
06149	Zinc	7440-66-6	76.9	0.632	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.19	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-003-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111521AA	06/01/2011 14:30	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011 13:28	Jason M Long	24.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201114824550	05/28/2011 12:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201114824550	05/28/2011 12:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201114824550	05/28/2011 12:24	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201114824550	05/28/2011 12:21	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011 10:59	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011 10:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011 08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011 08:30	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 09:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 15:53	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01654	Iron	SW-846 6010B	1	111575708004	06/09/2011 03:48	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:37	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2

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Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301485
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0034- SDG#: DE167-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:21	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:21	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:21	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:21	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 08:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203B	06/13/2011 18:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 16:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203B	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	82	U	82	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	82	U	82	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1

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Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	U	0.82	2.0		1
10138	Acenaphthylene	208-96-8	0.41	U	0.41	2.0		1
10138	Anthracene	120-12-7	0.41	U	0.41	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.82	U	0.82	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.82	U	0.82	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.82	U	0.82	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	U	0.82	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.82	U	0.82	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.4	U	7.4	22		1
10138	Di-n-butylphthalate	84-74-2	7.4	U	7.4	22		1
10138	Chrysene	218-01-9	0.41	U	0.41	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.82	U	0.82	2.0		1
10138	Diethylphthalate	84-66-2	7.4	U	7.4	22		1
10138	Dimethylphthalate	131-11-3	7.4	U	7.4	22		1
10138	Fluoranthene	206-44-0	0.82	U	0.82	2.0		1
10138	Fluorene	86-73-7	0.82	U	0.82	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.82	U	0.82	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.82	U	0.82	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.82	U	0.82	2.0		1
10138	Naphthalene	91-20-3	0.82	U	0.82	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.82	U	0.82	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.4	U	7.4	22		1
10138	Phenanthrene	85-01-8	0.82	U	0.82	2.0		1
10138	Pyrene	129-00-0	0.82	U	0.82	2.0		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.6	U	2.6	6.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.1		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.1		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.1		1
10225	PCB-1016	12674-11-2	0.41	U	0.41	2.1		1
10225	PCB-1221	11104-28-2	0.41	U	0.41	2.1		1
10225	PCB-1232	11141-16-5	0.41	U	0.41	2.1		1
10225	PCB-1242	53469-21-9	0.41	U	0.41	2.1		1
10225	PCB-1248	12672-29-6	0.41	U	0.41	2.1		1
10225	PCB-1254	11097-69-1	0.41	U	0.41	2.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.41	U	0.41	2.1		1
10225	PCB-1268	11100-14-4	0.41	U	0.41	2.1		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.2	U	6.2	12		1
08283	Ethylene glycol	107-21-1	6.2	U	6.2	12		1
08283	Propylene glycol	57-55-6	6.2	U	6.2	12		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,500		6.22	24.7		1
07914	Boron	7440-42-8	1.10	U	1.10	6.18		1
01650	Calcium	7440-70-2	76,500		37.9	124		5
01654	Iron	7439-89-6	29,700		5.82	24.7		1
01656	Lithium	7439-93-2	25.3		0.27	2.5		1
01657	Magnesium	7439-95-4	8,100		3.14	12.4		1
06958	Manganese	7439-96-5	401		0.0964	0.618		1
10145	Phosphorus	7723-14-0	512		0.692	12.4		1
01662	Potassium	7440-09-7	4,140		22.2	61.8		1
01667	Sodium	7440-23-5	189		46.1	124		1
07968	Strontium	7440-24-6	125		0.0766	0.618		1
06969	Tin	7440-31-5	2.67	J	1.24	12.4		1
06970	Titanium	7440-32-6	1,330		0.470	1.24		1
10146	Zirconium	7440-67-7	4.26	J	1.04	6.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0916	J	0.0727	0.242		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.36		0.0969	0.485		2
06126	Barium	7440-39-3	109		0.131	0.485		2
06127	Beryllium	7440-41-7	0.842		0.0194	0.121		2
06128	Cadmium	7440-43-9	0.393		0.0485	0.121		2
06131	Chromium	7440-47-3	33.7		0.145	0.485		2
06132	Cobalt	7440-48-4	10.5		0.0242	0.121		2
06133	Copper	7440-50-8	17.4		0.0800	0.485		2
06135	Lead	7439-92-1	9.79		0.0126	0.242		2
06138	Molybdenum	7439-98-7	0.365		0.0606	0.121		2
06139	Nickel	7440-02-0	23.5		0.121	0.485		2
06141	Selenium	7782-49-2	0.137	J	0.0485	0.485		2
06142	Silver	7440-22-4	0.0602	J	0.0145	0.121		2
06145	Thallium	7440-28-0	0.365		0.0364	0.121		2
06148	Vanadium	7440-62-2	64.7		0.0267	0.121		2
06149	Zinc	7440-66-6	69.1		0.679	3.64		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.1	0.99	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.1 U	11.1	37.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.25	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.38	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	19.1	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11153SLF026	06/11/2011	11:25	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153SLG026	06/18/2011	11:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11153SLG026	06/03/2011	08:20	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11153SLF026	06/03/2011	08:30	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111520014A	06/02/2011	23:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	09:30	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111520014A	06/02/2011	09:15	Maria Davenport	1

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Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 16:06	Dustin A Underkoffler	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
07914	Boron	SW-846 6010B	1	111575708004	06/09/2011 03:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111575708004	06/09/2011 04:03	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06969	Tin	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111575708004	06/07/2011 18:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06125	Arsenic	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06126	Barium	SW-846 6020	1	111571026008D	06/11/2011 00:24	David K Beck	2
06127	Beryllium	SW-846 6020	1	111571026008A	06/11/2011 18:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06131	Chromium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06132	Cobalt	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06133	Copper	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06135	Lead	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111571026008C	06/11/2011 00:24	David K Beck	2
06139	Nickel	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06141	Selenium	SW-846 6020	1	111571026008B	06/11/2011 00:24	David K Beck	2
06142	Silver	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06145	Thallium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06148	Vanadium	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
06149	Zinc	SW-846 6020	1	111571026008A	06/11/2011 00:24	David K Beck	2
00159	Mercury	SW-846 7471A	2	111595711002	06/09/2011 19:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111575708004	06/07/2011 09:13	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111571026008	06/07/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111575711004	06/07/2011 11:30	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	2	111595711002	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11154373205B	06/05/2011 09:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157373203B	06/13/2011 19:47	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243201A	06/07/2011 17:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11154373205B	06/03/2011 17:25	Joseph E McKenzie	1

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301486
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

0039- SDG#: DE167-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157373203B	06/06/2011 15:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243201A	06/06/2011 10:40	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-052711 Water
SSFL Area IV Collocated Soil Sampling
TB-052711

LLI Sample # WW 6301487
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:00

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB527 SDG#: DE167-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	1	J	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-052711 Water
SSFL Area IV Collocated Soil Sampling
TB-052711

LLI Sample # WW 6301487
LLI Group # 1249132
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:00

Submitted: 05/28/2011 09:00
Reported: 06/30/2011 15:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB527 SDG#: DE167-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	J	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111531AA	06/02/2011 13:33	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111511AA	05/31/2011 12:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111511AA	05/31/2011 12:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111531AA	06/02/2011 13:33	Linda C Pape	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111521AA	Sample number(s): 6301485									
Acetone	8.6		6.7	8.0	ug/kg	116		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	98		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	112		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	104		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	66		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	97		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	106		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	59		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	98		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	66		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	100		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	78	74	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	117		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	107		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	107		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	60		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	107		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	114		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	107		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	97		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	102		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	108		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	98	78-120	4	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	95		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	126		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	104		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	110		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	127		61-134		
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	101		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	103		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	104		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	103		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	98		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	101		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	69		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	103		80-120		
Batch number: E111511AA	Sample number(s): 6301487									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	107	80-123	3	30
Batch number: E111531AA	Sample number(s): 6301485									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	111	70-130	6	30
Batch number: L111531AA	Sample number(s): 6301487									
Acetone	6	U	6.	20	ug/l	108	108	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	100	102	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	91	94	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	96	99	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	95	97	80-120	1	30
Bromoform	1	U	1.	5	ug/l	81	82	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	109	114	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	96	94	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	97	100	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	96	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	93	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	109	113	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	91	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	103	105	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	100	109	60-129	9	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	98	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	69	70	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	90	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	91	92	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	95	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	95	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	104	79-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	109	109	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	99	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	100	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	99	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	95	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	99	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	93	93	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	93	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	100	79-120	1	30
Freon 113	2	U	2.	10	ug/l	100	99	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	106	109	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	82	86	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	94	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	101	100	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	90	93	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	96	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	93	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	94	95	80-120	0	30
Styrene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	97	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	96	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	100	100	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	87	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	82	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	104	103	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	117	113	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	97	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	95	99	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	96	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	100	109	65-125	9	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	99	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
Batch number: 11153SLC026	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	92		70-130		
Batch number: 11153SLF026	Sample number(s): 6301472-6301478,6301480-6301486									
Acenaphthene	17	U	17.	170	ug/kg	97		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	101		75-122		
Aniline	170 U		170.	500	ug/kg	70		34-94		
Anthracene	17	U	17.	170	ug/kg	99		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	101		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	95		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	91		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	91		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	89		67-125		
Benzoic acid	170 U		170.	500	ug/kg	82		62-113		
Benzyl alcohol	170		170.	500	ug/kg	96		68-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	111		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	97		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	96		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	85		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		79-110		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	93		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	93		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	59		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	35*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	113		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	99		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	101		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	95		64-119		
Isophorone	17	U	17.	170	ug/kg	98		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	90		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	93		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	65		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	93		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	97		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	78		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	94		58-112		
Pyrene	17	U	17.	170	ug/kg	107		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11153SLG026	Sample number(s): 6301472-6301478,6301480-6301486									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	93		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	98		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	101		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	88		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	114		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	91		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	72		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	108		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 111510007A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	92	92	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	111		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	103		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	107		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	84		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	109		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	101		80-120		
PETN	800 U		800.	2,400	ug/kg	114		80-120		
RDX	50	U	50.	120	ug/kg	98		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111520003A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	93		80-126		
Batch number: 111570016A	Sample number(s): 6301472-6301478,6301480-6301484									
2,4-D	1.2	U	1.2	3.6	ug/kg	97		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	63		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	100		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	22		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	116		62-170		
MCPA	76	U	76.	250	ug/kg	90		60-130		
MCPP (Mecoprop)	84	J	75.	250	ug/kg	81		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	100		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	86		68-114		
Batch number: 111520014A	Sample number(s): 6301473,6301486									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111540006A	Sample number(s): 6301472-6301478,6301480-6301484									
Aldrin	0.066	U	0.066	0.17	ug/kg	52		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	70		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	59		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	109		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	75		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	118		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	69		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	118		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	76		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	75		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	91		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	115		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	76		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	88		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	76		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	116		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111570015A	Sample number(s): 6301472-6301478,6301480-6301486									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	96	88	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111570011A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	88		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	92		67-127		
EFH (C8-C11)	0.40	J	0.40	1.2	mg/kg	70		54-107		
Batch number: 111510033A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
Ethanol	100	U	100.	500	ug/kg	90		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 111530019A	Sample number(s): 6301476-6301478,6301480-6301482,6301484-6301486									
Diethylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Batch number: 111540013A	Sample number(s): 6301476-6301478,6301480-6301482,6301484									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
Batch number: 111571026008A	Sample number(s): 6301472-6301486									
Antimony	0.0571	U	0.0571	0.190	mg/kg	64		27-181		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	95		83-113		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	95		86-111		
Cadmium	0.0381	U	0.0381	0.0952	mg/kg	100		82-118		
Chromium	0.114	U	0.114	0.381	mg/kg	97		80-120		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	95		82-118		
Copper	0.0629	U	0.0629	0.381	mg/kg	90		83-110		
Lead	0.0194	J	0.0099	0.190	mg/kg	95		83-110		
Nickel	0.0952	U	0.0952	0.381	mg/kg	97		81-110		
Silver	0.0114	U	0.0114	0.0952	mg/kg	96		81-111		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	97		83-110		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	88		84-116		
Zinc	0.533	U	0.533	2.86	mg/kg	95		81-112		
Batch number: 111571026008B	Sample number(s): 6301472-6301486									
Selenium	0.0381	U	0.0381	0.381	mg/kg	99		83-111		
Batch number: 111571026008C	Sample number(s): 6301472-6301486									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	100		78-122		
Batch number: 111571026008D	Sample number(s): 6301472-6301486									
Barium	0.103	U	0.103	0.381	mg/kg	97		81-111		
Batch number: 111575708004	Sample number(s): 6301472-6301486									
Aluminum	4.79	U	4.79	19.0	mg/kg	97		61-110		
Boron	0.848	U	0.848	4.76	mg/kg	86		78-110		
Calcium	6.72	J	5.84	19.0	mg/kg	97		88-110		
Iron	4.49	U	4.49	19.0	mg/kg	84		61-110		
Lithium	0.21	U	0.21	1.9	mg/kg	99		80-120		
Magnesium	2.42	U	2.42	9.52	mg/kg	96		82-110		
Manganese	0.0743	U	0.0743	0.476	mg/kg	97		89-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.29	J	0.533	9.52	mg/kg	102		80-120		
Potassium	17.1	U	17.1	47.6	mg/kg	97		78-110		
Sodium	35.5	U	35.5	95.2	mg/kg	94		87-110		
Strontium	0.0590	U	0.0590	0.476	mg/kg	96		86-110		
Tin	1.55	J	0.952	9.52	mg/kg	91		90-114		
Titanium	0.362	U	0.362	0.952	mg/kg	86		80-120		
Zirconium	0.800	U	0.800	4.76	mg/kg	98		80-120		
Batch number: 111595711002	Sample number(s): 6301472-6301482,6301484-6301486									
Mercury	0.0028	U	0.0028	0.0991	mg/kg	89		88-123		
Batch number: 111615711001	Sample number(s): 6301483									
Mercury	0.0028	U	0.0028	0.0964	mg/kg	92		88-123		
Batch number: 11154373205A	Sample number(s): 6301472-6301475,6301480									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	92		90-110		
Batch number: 11154373205B	Sample number(s): 6301476-6301477,6301479,6301481-6301486									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	92		90-110		
Batch number: 11157243201A	Sample number(s): 6301472-6301477,6301479-6301486									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11157373203A	Sample number(s): 6301472-6301477,6301479-6301484									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11157373203B	Sample number(s): 6301485-6301486									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11159102201A	Sample number(s): 6301476-6301477,6301479-6301482,6301484									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11157039401A	Sample number(s): 6301472-6301476,6301479-6301483									
18a pH by 9045C						100		95-105		
Batch number: 11157039401B	Sample number(s): 6301484-6301486									
18a pH by 9045C						100		95-105		
Batch number: 11159162401A	Sample number(s): 6301472-6301475,6301483,6301485-6301486									
Moisture Content by 160.3						100		80-120		
Batch number: 11160162402B	Sample number(s): 6301476-6301482,6301484									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: B111521AA	Sample number(s): 6301485 UNSPK: P298873								
Acetone	97	93	15-210	11	30				
Benzene	104	103	55-143	8	30				
Bromobenzene	97	97	43-139	8	30				
Bromochloromethane	110	102	60-137	16	30				
Bromodichloromethane	99	98	53-136	9	30				
Bromoform	95	91	38-124	12	30				
Bromomethane	71	70	42-168	9	30				
2-Butanone	93	88	37-163	14	30				
n-Butylbenzene	95	96	30-146	7	30				
sec-Butylbenzene	96	96	33-157	8	30				
tert-Butylbenzene	97	97	41-152	7	30				
Carbon Tetrachloride	107	105	45-153	10	30				
Chlorobenzene	102	101	49-135	8	30				
Chloroethane	64	64	39-152	8	30				
2-Chloroethyl Vinyl Ether	82	79	32-139	12	30				
Chloroform	106	103	61-142	10	30				
Chloromethane	70	67	51-163	12	30				
2-Chlorotoluene	96	96	42-146	7	30				
4-Chlorotoluene	98	98	39-145	7	30				
1,2-Dibromo-3-chloropropane	94	90	30-139	12	30				
Dibromochloromethane	98	95	51-128	11	30				
1,2-Dibromoethane	100	98	54-129	9	30				
Dibromomethane	98	93	57-130	12	30				
1,2-Dichlorobenzene	99	97	36-133	10	30				
1,3-Dichlorobenzene	96	95	34-134	9	30				
1,4-Dichlorobenzene	97	95	35-136	9	30				
Dichlorodifluoromethane	63	60	26-151	12	30				
1,1-Dichloroethane	104	103	63-142	9	30				
1,2-Dichloroethane	107	105	68-131	9	30				
1,1-Dichloroethene	111	108	61-149	10	30				
cis-1,2-Dichloroethene	102	100	60-136	10	30				
trans-1,2-Dichloroethene	100	101	59-142	6	30				
1,2-Dichloropropane	99	98	62-135	8	30				
1,3-Dichloropropane	101	99	58-129	10	30				
2,2-Dichloropropane	104	102	53-147	9	30				
1,1-Dichloropropene	105	104	54-145	8	30				
cis-1,3-Dichloropropene	93	92	51-131	9	30				
trans-1,3-Dichloropropene	93	92	49-129	9	30				
Ethylbenzene	101	101	44-141	7	30				
Freon 113	111	108	56-156	10	30				
Hexachlorobutadiene	82	79	10-155	11	30				
2-Hexanone	96	92	32-160	12	30				
Isopropylbenzene	101	102	38-144	7	30				
p-Isopropyltoluene	95	95	29-152	7	30				
Methyl Tertiary Butyl Ether	97	95	55-129	10	30				
4-Methyl-2-pentanone	94	89	46-139	13	30				
Methylene Chloride	103	99	61-141	11	30				
n-Propylbenzene	97	98	39-157	7	30				
Styrene	102	102	35-134	8	30				
1,1,1,2-Tetrachloroethane	102	100	52-130	9	30				
1,1,2,2-Tetrachloroethane	93	89	40-152	11	30				
Tetrachloroethene	103	103	42-149	7	30				
Toluene	103	103	50-146	8	30				
1,2,3-Trichlorobenzene	91	89	10-140	10	30				
1,2,4-Trichlorobenzene	84	82	10-136	10	30				
1,1,1-Trichloroethane	105	103	64-142	9	30				
1,1,2-Trichloroethane	99	97	54-139	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Trichloroethene	100	99	53-144	8	30				
Trichlorofluoromethane	93	88	47-163	12	30				
1,2,3-Trichloropropane	94	91	45-154	12	30				
1,2,4-Trimethylbenzene	95	95	37-149	7	30				
1,3,5-Trimethylbenzene	98	99	38-150	7	30				
Vinyl Chloride	74	72	50-154	11	30				
m+p-Xylene	104	104	44-137	8	30				
o-Xylene	100	100	42-137	7	30				
Batch number: E111531AA	Sample number(s): 6301485 UNSPK: P300336								
1,4-Dioxane	86	94	70-130	3	30				
Batch number: 11153SLC026	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
N-Nitrosodimethylamine	157*	136*	70-130	14	30				
Batch number: 11153SLF026	Sample number(s): 6301472-6301478,6301480-6301486 UNSPK: 6301476								
Acenaphthene	93	96	75-115	3	30				
Acenaphthylene	98	100	81-110	2	30				
Aniline	50	50	35-95	1	30				
Anthracene	97	97	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	101	99	65-122	3	30				
Benzo(a)pyrene	92	88	57-126	5	30				
Benzo(b)fluoranthene	89	87	59-125	2	30				
Benzo(g,h,i)perylene	77	81	59-127	6	30				
Benzo(k)fluoranthene	85	87	56-132	3	30				
Benzoic acid	59	63	10-173	7	30				
Benzyl alcohol	95	92	67-115	3	30				
4-Bromophenyl-phenylether	98	101	67-129	3	30				
Butylbenzylphthalate	108	107	73-134	1	30				
Di-n-butylphthalate	91	93	67-123	2	30				
Carbazole	93	97	64-120	5	30				
4-Chloro-3-methylphenol	90	91	76-110	1	30				
4-Chloroaniline	57	59	23-95	2	30				
bis(2-Chloroethoxy)methane	95	95	75-104	0	30				
bis(2-Chloroethyl)ether	96	91	60-116	5	30				
bis(2-Chloroisopropyl)ether	98	99	55-142	1	30				
2-Chloronaphthalene	75	84	50-141	12	30				
2-Chlorophenol	92	91	73-121	1	30				
4-Chlorophenyl-phenylether	92	96	80-109	4	30				
Chrysene	92	91	62-128	1	30				
Dibenz(a,h)anthracene	82	84	65-125	3	30				
Dibenzofuran	94	97	71-112	3	30				
1,2-Dichlorobenzene	94	90	66-108	4	30				
1,3-Dichlorobenzene	94	90	63-109	4	30				
1,4-Dichlorobenzene	94	92	70-100	2	30				
3,3'-Dichlorobenzidine	49	68	16-119	33*	30				
2,4-Dichlorophenol	93	94	78-117	1	30				
Diethylphthalate	95	98	66-118	2	30				
2,4-Dimethylphenol	90	89	78-110	1	30				
3,5-Dimethylphenol	98	100	70-130	2	30				
Dimethylphthalate	96	96	64-118	1	30				
4,6-Dinitro-2-methylphenol	55	57	24-116	4	30				

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Quality Control Summary

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Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrophenol	32	35	20-143	7	30				
2,4-Dinitrotoluene	92	97	73-113	6	30				
2,6-Dinitrotoluene	92	94	69-123	2	30				
1,2-Diphenylhydrazine	109	106	71-129	2	30				
bis(2-Ethylhexyl)phthalate	114	111	63-122	3	30				
Fluoranthene	87	88	73-112	0	30				
Fluorene	95	96	77-111	1	30				
Hexachlorobenzene	99	100	77-114	1	30				
Hexachlorobutadiene	94	92	62-120	2	30				
Hexachlorocyclopentadiene	33	14	10-153	79*	30				
Hexachloroethane	83	71	57-109	15	30				
Indeno(1,2,3-cd)pyrene	79	86	61-126	8	30				
Isophorone	99	99	73-102	0	30				
1-Methylnaphthalene	93	94	73-112	0	30				
2-Methylnaphthalene	89	91	76-114	2	30				
2-Methylphenol	87	86	75-111	2	30				
4-Methylphenol	90	87	71-111	3	30				
Naphthalene	94	95	72-116	1	30				
2-Nitroaniline	103	104	67-125	0	30				
3-Nitroaniline	92	96	59-122	5	30				
4-Nitroaniline	76	78	52-112	2	30				
Nitrobenzene	99	102	72-106	3	30				
2-Nitrophenol	95	98	74-115	4	30				
4-Nitrophenol	87	87	54-113	0	30				
N-Nitroso-di-n-propylamine	95	95	60-116	1	30				
N-Nitrosodimethylamine	88	88	47-116	0	30				
N-Nitrosodiphenylamine	103	100	86-145	3	30				
Di-n-octylphthalate	97	97	56-126	0	30				
Pentachlorophenol	61	79	28-127	25	30				
Phenanthrene	94	94	65-125	0	30				
Phenol	91	90	58-126	0	30				
Pyrene	94	95	74-126	1	30				
1,2,4-Trichlorobenzene	96	94	72-115	2	30				
2,4,5-Trichlorophenol	95	95	78-109	1	30				
2,4,6-Trichlorophenol	101	99	77-115	2	30				
Batch number: 11153SLG026	Sample number(s): 6301472-6301478,6301480-6301486 UNSPK: 6301476								
Acenaphthene	97	86	63-105	13	30				
Acenaphthylene	79	78	67-114	2	30				
Anthracene	90	87	60-122	4	30				
Benzo(a)anthracene	142*	82	59-128	47*	30				
Benzo(a)pyrene	156*	79	45-138	57*	30				
Benzo(b)fluoranthene	166*	78	43-155	57*	30				
Benzo(g,h,i)perylene	97	64	33-141	33*	30				
Benzo(k)fluoranthene	139	78	42-144	50*	30				
Butylbenzylphthalate	108	102	57-173	7	30				
Di-n-butylphthalate	102	100	65-148	3	30				
Chrysene	61	-4*	48-134	37*	30				
Dibenz(a,h)anthracene	95	84	22-133	14	30				
Diethylphthalate	92	0*	70-136	200*	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	128	128	39-167	1	30				
Fluoranthene	221*	76	26-166	83*	30				

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Quality Control Summary

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Reported: 06/30/11 at 03:56 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluorene	91	90	66-122	3	30				
Indeno(1,2,3-cd)pyrene	114	73	21-143	40*	30				
1-Methylnaphthalene	92	88	72-123	5	30				
2-Methylnaphthalene	82	79	64-103	5	30				
Naphthalene	90	86	61-102	6	30				
N-Nitrosodimethylamine	80	79	48-113	3	30				
Di-n-octylphthalate	104	108	40-192	2	30				
Phenanthrene	167*	78	12-165	66*	30				
Pyrene	188*	71	15-153	72*	30				
Batch number: 111510007A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
4-Amino-2,6-Dinitrotoluene	109	107	80-127	2	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	2	50				
1,3-Dinitrobenzene	112	110	38-166	2	50				
2,4-Dinitrotoluene	105	103	80-131	2	50				
2,6-Dinitrotoluene	110	106	80-127	4	50				
HMX	96	94	63-128	2	50				
Nitrobenzene	109	105	80-125	4	50				
Nitroglycerin	97	96	80-120	2	50				
2-Nitrotoluene	106	103	80-122	3	50				
3-Nitrotoluene	112	110	72-119	2	50				
4-Nitrotoluene	104	102	80-125	2	50				
PETN	120	120	80-121	0	50				
RDX	90	89	75-129	1	50				
Tetryl	97	96	55-174	0	50				
1,3,5-Trinitrobenzene	105	102	82-126	3	50				
2,4,6-Trinitrotoluene	109	107	82-130	2	50				
Batch number: 111520003A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
25a Formaldehyde 8315A	95	94	80-120	1	50				
Batch number: 111570016A	Sample number(s): 6301472-6301478,6301480-6301484 UNSPK: 6301476								
2,4-D	85	78	17-180	10	35				
Dalapon	39	42	10-125	8	50				
2,4-DB	37	41	10-201	10	50				
Dicamba	107	72	10-190	39	50				
Dinoseb	17	16	10-46	8	35				
2,4-DP (Dichlorprop)	109	110	33-178	0	50				
MCPA	81	89	10-213	10	50				
MCPP (Mecoprop)	45	39	10-184	13	50				
2,4,5-T	52	57	10-156	9	35				
2,4,5-TP	60	63	24-141	4	35				
Batch number: 111520014A	Sample number(s): 6301473,6301486 UNSPK: P296036								
6a Perchlorate EPA 6850	103	107	80-120	3	20				
Batch number: 111540006A	Sample number(s): 6301472-6301478,6301480-6301484 UNSPK: 6301476								
Aldrin	58	48	16-126	17	50				
Alpha BHC	76	70	10-129	8	50				
Beta BHC	56	53	14-147	6	50				
Gamma BHC - Lindane	76	73	10-140	4	50				
p,p-DDD	85	72	16-163	17	50				
p,p-DDE	32	78	18-161	36	50				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDT	34	62	10-176	14	50				
Delta BHC	66	63	23-140	5	50				
Dieldrin	77	71	19-154	8	50				
Endosulfan I	55	42	16-137	25	50				
Endosulfan II	105	71	28-154	39	50				
Endosulfan Sulfate	48	49	21-160	3	50				
Endrin	76	65	11-149	15	50				
Endrin Aldehyde	45	44	10-148	3	35				
Endrin Ketone	56	62	22-165	10	50				
Heptachlor	100	94	13-126	6	50				
Heptachlor Epoxide	47	41	13-157	9	50				
Methoxychlor	80	71	32-147	12	50				
Batch number: 111570015A	Sample number(s): 6301472-6301478,6301480-6301486 UNSPK: 6301476								
PCB-1016	88	78	29-146	12	50				
PCB-1260	89	105	39-149	13	50				
Batch number: 111570011A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	-196 (2)	-43 (2)	49-123	26*	20				
EFH (C21-C30)	-889 (2)	-1432 (2)	49-123	31*	20				
EFH (C30 - C40)	-226 (2)	-1853 (2)	49-123	25*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111510033A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
Ethanol	60	64	48-130	6	20				
Isopropanol	70	70	12-149	0	20				
Methanol	64	68	43-138	7	20				
Batch number: 111530019A	Sample number(s): 6301476-6301478,6301480-6301482,6301484-6301486 UNSPK: 6301476								
Diethylene glycol	45*	40*	59-109	12	20				
Ethylene glycol	66	57*	63-107	15	20				
Propylene glycol	73	62*	63-107	17	20				
Batch number: 111540013A	Sample number(s): 6301476-6301478,6301480-6301482,6301484 UNSPK: 6301476								
m-Terphenyl	79	83	75-125	5	20				
o-Terphenyl	96	100	75-125	4	20				
p-Terphenyl	28*	63*	75-125	21*	20				
Batch number: 111571026008A	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Antimony	28*	32*	75-125	11	20	0.123 J	0.118 J	4 (1)	20
Arsenic	112	108	75-125	1	20	4.74	5.20	9	20
Beryllium	62*	95	75-125	19	20	0.804	0.831	3	20
Cadmium	94	102	75-125	6	20	0.453	0.459	1 (1)	20
Chromium	90	97	75-125	2	20	28.1	28.3	1	20
Cobalt	96	95	75-125	0	20	8.44	9.02	7	20
Copper	92	98	75-125	3	20	14.9	16.0	7	20
Lead	143*	102	75-125	8	20	11.4	12.0	5	20
Nickel	98	107	75-125	3	20	19.1	19.7	3	20
Silver	100	99	75-125	0	20	0.0582 J	0.0405 J	36* (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	95	99	75-125	3	20	0.328	0.322	2 (1)	20
Vanadium	100 (2)	120 (2)	75-125	3	20	51.3	53.1	4	20
Zinc	89 (2)	115 (2)	75-125	3	20	72.6	77.6	7	20
Batch number: 111571026008B	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Selenium	95	94	75-125	0	20	0.176 J	0.190 J	7 (1)	20
Batch number: 111571026008C	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Molybdenum	92	88	75-125	3	20	0.485	0.488	1 (1)	20
Batch number: 111571026008D	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Barium	108 (2)	134 (2)	75-125	2	20	125	125	0	20
Batch number: 111575708004	Sample number(s): 6301472-6301486 UNSPK: 6301476 BKG: 6301476								
Aluminum	1015 (2)	1227 (2)	75-125	2	20	27,300	26,300	4	20
Boron	95	97	84-115	5	20	0.873 U	0.873 U	0 (1)	20
Calcium	84 (2)	94 (2)	75-125	1	20	4,970	4,750	5	20
Iron	438 (2)	-2108 (2)	75-125	9	20	28,700	28,600	1	20
Lithium	96	97	82-114	3	20	21.8	23.2	6	20
Magnesium	120 (2)	97 (2)	75-125	1	20	5,950	5,910	1	20
Manganese	100 (2)	-18 (2)	75-125	13	20	420	403	4	20
Phosphorus	86	80	75-125	1	20	351	378	8	20
Potassium	137 (2)	126 (2)	75-125	1	20	5,230	5,300	1	20
Sodium	93	96	75-125	6	20	91.8 J	89.7 J	2 (1)	20
Strontium	94	94	75-115	3	20	28.7	27.1	6	20
Tin	81	83	80-110	5	20	2.48 J	2.55 J	3 (1)	20
Titanium	182 (2)	226 (2)	75-125	3	20	1,290	1,280	1	20
Zirconium	89	90	75-125	3	20	3.70 J	4.50 J	19 (1)	20
Batch number: 111595711002	Sample number(s): 6301472-6301482,6301484-6301486 UNSPK: 6301476 BKG: 6301476								
Mercury	119	111	65-135	8	20	0.0582 J	1.41	184* (1)	20
Batch number: 111615711001	Sample number(s): 6301483 UNSPK: P305886 BKG: P305886								
Mercury	110	100	65-135	9	20	0.0275 J	0.0291 J	6 (1)	20
Batch number: 11154373205A	Sample number(s): 6301472-6301475,6301480 UNSPK: P293456 BKG: P293456								
11a Anions by 300.0 - Fluoride	100		80-120			1.3	1.0	22* (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.0 J	0.80 U	200* (1)	20
Batch number: 11154373205B	Sample number(s): 6301476-6301477,6301479,6301481-6301486 UNSPK: 6301476 BKG: 6301476								
11a Anions by 300.0 - Fluoride	86		80-120			1.4	1.5	4 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			2.1	2.3	9 (1)	20
Batch number: 11157243201A	Sample number(s): 6301472-6301477,6301479-6301486 UNSPK: 6301476 BKG: 6301476								
3a Cr VI by EPA 7199	100		75-125			1.4	1.0	30* (1)	20
Batch number: 11157373203A	Sample number(s): 6301472-6301477,6301479-6301484 UNSPK: 6301476 BKG: 6301476								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11157373203B	Sample number(s): 6301485-6301486 UNSPK: 6301485 BKG: 6301485								

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Reported: 06/30/11 at 03:56 PM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	108		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11159102201A	Sample number(s): 6301476-6301477,6301479-6301482,6301484 UNSPK: 6301476 BKG: 6301476										
17a Cyanide by 9012B	98		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11157039401A	Sample number(s): 6301472-6301476,6301479-6301483 BKG: 6301476										
18a pH by 9045C						6.85		6.75		1	3
Batch number: 11157039401B	Sample number(s): 6301484-6301486 BKG: P302747										
18a pH by 9045C						8.95		8.93		0	3
Batch number: 11159162401A	Sample number(s): 6301472-6301475,6301483,6301485-6301486 BKG: 6301485										
Moisture Content by 160.3						15.6		15.8		1	20
Batch number: 11160162402B	Sample number(s): 6301476-6301482,6301484 BKG: 6301476										
28a Moisture Content by 160.3						9.5		9.8		2	20
Moisture Content by 160.3						9.5		9.8		2	20
Moisture Content by 160.3						9.5		9.8		2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111521AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6301485	105	108	99	96
Blank	104	100	97	94
LCS	105	106	100	103
MS	102	98	103	100
MSD	101	98	103	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111511AA

	Toluene-d8
6301487	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111531AA

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

	Toluene-d8
6301485	95
Blank	95
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111531AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6301487	108	102	96	97
Blank	107	104	100	98
LCS	107	101	104	105
LCSD	105	103	101	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11153SLC026

	N-Nitrosodimethylamine-d6
6301476	117
6301477	116
6301478	114
6301480	116
6301481	115
6301482	116
6301484	111
Blank	81
LCS	92
MS	116
MSD	114
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11153SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6301472	79	82	87	88	92	93
6301473	83	85	86	91	96	86
6301474	75	77	82	81	88	78
6301475	81	79	83	87	89	85
6301476	84	81	87	90	92	84
6301477	85	87	88	90	92	79
6301478	84	87	89	93	96	80
6301480	80	82	87	91	94	79
6301481	83	84	85	91	94	83
6301482	83	81	84	87	91	82
6301483	90	89	92	92	95	83
6301484	82	82	86	86	88	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

6301485	80	79	85	85	87	80
6301486	85	82	82	89	87	84
Blank	84	85	84	83	88	86
LCS	88	89	93	88	91	93
MS	85	87	88	90	92	79
MSD	84	87	89	93	96	80
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11153SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6301472	88	81	82
6301473	89	83	85
6301474	91	88	96
6301475	78	76	93
6301476	91	86	94
6301477	95	85	92
6301478	86	81	88
6301480	96	85	91
6301481	64	57	61
6301482	81	73	81
6301483	91	81	90
6301484	96	84	93
6301485	92	78	93
6301486	96	81	97
Blank	98	87	103
LCS	94	85	98
MS	95	85	92
MSD	86	81	88
Limits:	40-130	45-130	45-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111510007A

	2-Nitro-m-xylene
6301476	122
6301477	122
6301478	119
6301480	120
6301481	118
6301482	103
6301484	126
Blank	136
LCS	127
LCSD	132
MS	122
MSD	119
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111520003A

	Butyraldehyde

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

6301476	101
6301477	104
6301478	106
6301480	93
6301481	107
6301482	100
6301484	91
Blank	108
LCS	104
MS	104
MSD	106
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 111540006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6301472	66	73
6301473	50	88
6301474	61	87
6301475	68	89
6301476	61	135*
6301477	53	72
6301478	47*	109
6301480	64	79
6301481	60	173*
6301482	48*	36
6301483	59	146*
6301484	48*	89
Blank	41*	96
LCS	43*	96
MS	53	72
MSD	47*	109
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111570015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6301472	71	55
6301473	109	91
6301474	106	91
6301475	100	86
6301476	107	93
6301477	110	96
6301478	103	91
6301480	111	101
6301481	117	98
6301482	65	72
6301483	103	100
6301484	97	84
6301485	111	103
6301486	110	108
Blank	104	111
LCS	110	112
LCSD	107	114

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

MS	110	95
MSD	103	91
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111570016A

	2,4-Dichlorophenylacetic acid
6301472	79
6301473	111
6301474	102
6301475	116
6301476	111
6301477	99
6301478	109
6301480	65
6301481	79
6301482	141
6301483	104
6301484	128
Blank	100
LCS	86
MS	99
MSD	109
Limits:	36-156

Analysis Name: 19a Alcohols by 8015B
Batch number: 111510033A

	Acetone
6301476	73
6301477	80
6301478	79
6301480	75
6301481	74
6301482	77
6301484	74
Blank	88
LCS	87
MS	80
MSD	79
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111530019A

	Tetramethylene glycol
6301476	71
6301477	82
6301478	81
6301480	84
6301481	80
6301482	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249132
Reported: 06/30/11 at 03:56 PM

Surrogate Quality Control

6301484	76
6301485	76
6301486	72
Blank	84
LCS	91
MS	82
MSD	81
Limits:	29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111540013A

	n-Triacontane-d62
6301476	81
6301477	98
6301478	99
6301480	76
6301481	130
6301482	75
6301484	105
Blank	94
LCS	94
MS	100
MSD	100
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111570011A

	Chlorobenzene	Orthoterphenyl
6301476	77	109
6301477	91	113
6301478	86	103
6301480	81	93
6301481	83	109
6301482	74	97
6301484	75	97
Blank	77	93
LCS	89	95
MS	91	113
MSD	86	103
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Acct # 13013 LL# 6301472-87 GR# 1249132

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-SS Sleeve			X	X																	
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X	X	X	X										Perchlorate by C850
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-SS Sleeve			X	X																	was added per PB & PH. NMG 5/11/11
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-SS Sleeve			X	X																	
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-SS Sleeve			X	X																	
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	2-SS Sleeve			X	X																	MS/MSD
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	1-SS Sleeve			X	X																	
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	1-SS Sleeve			X	X																	
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	1-SS Sleeve			X	X																	
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X										
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	1-SS Sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/27/2011 / 1700	5/28/11 900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s):	

Acct# 13013 LL# 6301472-87 GE #124913 2

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-003-SA8N-SB-4.5	5.27.11	0905	SOIL	NONE	4-Encores										X	X											
SL-003-SA8N-SB-4.0-5.0	5.27.11	0910	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-003-SA8N-SB-9.0-10.0	5.27.11	0930	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
TB-052711	5.27.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/27/2011 / 1700	5/28/11 900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 1890, 1880	

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Tuesday, May 31, 2011 8:39 PM
To: Nicole Maljovec; Hartman, Pamela
Subject: RE: SSFL COC 5/27/11- SL-091 confirming Perchlorate

Nicole - It looks to me like it should be run for 6850.

Please confirm that Pam.

Peggy

-----Original Message-----
From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Tuesday, May 31, 2011 6:28 AM
To: Bloisa, Peggy; Hartman, Pamela
Subject: FW: SSFL COC 5/27/11- SL-091 confirming Perchlorate

Good morning ladies,
Can you confirm whether SL-091-SA5DN-SS-0.0-0.5 should be analyzed for perchlorate 6850?

Thanks!
Nicole

-----Original Message-----
From: Carolyn M. Cyms
Sent: Saturday, May 28, 2011 1:19 PM
To: Nicole Maljovec
Subject: FW: SSFL COC 5/27/11

Hey Nicole, SL-091-SA5DN-SS-0.0-0.5 was marked differently on the original than it is in the email. (They didn't mark perchlorate 6850 on the original.) I entered it for now, can you please confirm that it is wanted?

Thanks,
Carolyn

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Friday, May 27, 2011 6:59 PM
To: 'Laura Rainey'; Zakowski, Cherie; SA Env Entry; Nicole Maljovec; Burgesser, Todd
Subject: SSFL COC 5/27/11

COC for Friday 5/27/11

Have a great weekend!

-Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

Nicole Maljovec

From: Pamela Hartman [phartmanster@gmail.com]

Sent: Tuesday, May 31, 2011 9:40 PM

To: Nicole Maljovec

The SL 91 should be run for perchlorate

-- Sent from my Palm Pre

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 05/28/2011
Group Number: 1249135
SDG: DX094
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-071-SA5DN-SS-0.0-0.5 Soil	6301497
SL-091-SA5DN-SS-0.0-0.5 Soil	6301498
SL-092-SA5DN-SS-0.0-0.5 Soil	6301499
SL-093-SA5DN-SS-0.0-0.5 Soil	6301500
SL-117-SA5DN-SS-0.0-0.5 Soil	6301501
SL-117-SA5DN-SS-0.0-0.5MS Soil	6301502
SL-117-SA5DN-SS-0.0-0.5MSD Soil	6301503
SL-118-SA5DN-SS-0.0-0.5 Soil	6301504
SL-119-SA5DN-SS-0.0-0.5 Soil	6301505
SL-120-SA5DN-SS-0.0-0.5 Soil	6301506
SL-122-SA5DN-SS-0.0-0.5 Soil	6301507
DUP09-SA5DN-QC-052711 Soil	6301508
SL-003-SA8N-SB-4.0-5.0 Soil	6301509
SL-003-SA8N-SB-9.0-10.0 Soil	6301510

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

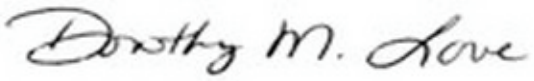
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0837	JB	0.0233	1.08	1
11031	12378-PeCDD	40321-76-4	0.561	JB	0.0522	5.40	1
11031	123478-HxCDD	39227-28-6	1.06	J	0.130	5.40	1
11031	123678-HxCDD	57653-85-7	2.24	JB	0.137	5.40	1
11031	123789-HxCDD	19408-74-3	1.74	JB	0.129	5.40	1
11031	1234678-HpCDD	35822-46-9	79.2	B	0.195	5.40	1
11031	OCDD	3268-87-9	1,250	B	0.182	10.8	1
11031	2378-TCDF	51207-31-9	0.397	JB	0.134	1.08	1
11031	12378-PeCDF	57117-41-6	2.11	JB	0.0622	5.40	1
11031	23478-PeCDF	57117-31-4	0.743	JB	0.0576	5.40	1
11031	123478-HxCDF	70648-26-9	0.720	JB	0.0731	5.40	1
11031	123678-HxCDF	57117-44-9	0.550	JB	0.0720	5.40	1
11031	123789-HxCDF	72918-21-9	0.478	JB	0.0827	5.40	1
11031	234678-HxCDF	60851-34-5	0.517	JB	0.0691	5.40	1
11031	1234678-HpCDF	67562-39-4	10.5	B	0.0647	5.40	1
11031	1234789-HpCDF	55673-89-7	0.502	JB	0.0842	5.40	1
11031	OCDF	39001-02-0	15.8	B	0.0837	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301497
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 08:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X017- SDG#: DX094-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 14:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0818	JB	0.0225	1.08	1
11031	12378-PeCDD	40321-76-4	0.951	JBQ	0.0534	5.38	1
11031	123478-HxCDD	39227-28-6	0.985	J	0.0975	5.38	1
11031	123678-HxCDD	57653-85-7	3.37	JB	0.102	5.38	1
11031	123789-HxCDD	19408-74-3	2.52	JB	0.0985	5.38	1
11031	1234678-HpCDD	35822-46-9	99.0	B	0.148	5.38	1
11031	OCDD	3268-87-9	1,530	B	0.190	10.8	1
11031	2378-TCDF	51207-31-9	0.302	JB	0.101	1.08	1
11031	12378-PeCDF	57117-41-6	0.747	JB	0.0459	5.38	1
11031	23478-PeCDF	57117-31-4	0.714	JB	0.0463	5.38	1
11031	123478-HxCDF	70648-26-9	0.773	JB	0.0728	5.38	1
11031	123678-HxCDF	57117-44-9	0.447	JBQ	0.0686	5.38	1
11031	123789-HxCDF	72918-21-9	1.00	JBQ	0.0899	5.38	1
11031	234678-HxCDF	60851-34-5	0.657	JB	0.0696	5.38	1
11031	1234678-HpCDF	67562-39-4	8.66	B	0.0572	5.38	1
11031	1234789-HpCDF	55673-89-7	0.655	JB	0.0772	5.38	1
11031	OCDF	39001-02-0	32.4	B	0.0711	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301498
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X091- SDG#: DX094-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 15:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	JBQ	0.0223	1.07	1
11031	12378-PeCDD	40321-76-4	0.315	JB	0.0438	5.36	1
11031	123478-HxCDD	39227-28-6	0.503	J	0.0698	5.36	1
11031	123678-HxCDD	57653-85-7	1.95	JB	0.0725	5.36	1
11031	123789-HxCDD	19408-74-3	1.64	JB	0.0706	5.36	1
11031	1234678-HpCDD	35822-46-9	45.8	B	0.124	5.36	1
11031	OCDD	3268-87-9	724	B	0.155	10.7	1
11031	2378-TCDF	51207-31-9	0.0856	U	0.0856	1.07	1
11031	12378-PeCDF	57117-41-6	0.679	JB	0.0483	5.36	1
11031	23478-PeCDF	57117-31-4	0.790	JB	0.0465	5.36	1
11031	123478-HxCDF	70648-26-9	0.746	JB	0.0540	5.36	1
11031	123678-HxCDF	57117-44-9	0.358	JB	0.0526	5.36	1
11031	123789-HxCDF	72918-21-9	0.958	JB	0.0589	5.36	1
11031	234678-HxCDF	60851-34-5	0.492	JB	0.0523	5.36	1
11031	1234678-HpCDF	67562-39-4	4.39	JB	0.0383	5.36	1
11031	1234789-HpCDF	55673-89-7	0.334	JB	0.0503	5.36	1
11031	OCDF	39001-02-0	15.6	B	0.0598	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-092-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301499
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X092- SDG#: DX094-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 16:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0487	JB	0.0245	1.09	1
11031	12378-PeCDD	40321-76-4	0.400	JB	0.0511	5.43	1
11031	123478-HxCDD	39227-28-6	0.583	JQ	0.102	5.43	1
11031	123678-HxCDD	57653-85-7	2.23	JB	0.111	5.43	1
11031	123789-HxCDD	19408-74-3	1.78	JB	0.105	5.43	1
11031	1234678-HpCDD	35822-46-9	54.2	B	0.127	5.43	1
11031	OCDD	3268-87-9	1,050	B	0.167	10.9	1
11031	2378-TCDF	51207-31-9	0.310	JB	0.0854	1.09	1
11031	12378-PeCDF	57117-41-6	0.606	JB	0.0511	5.43	1
11031	23478-PeCDF	57117-31-4	0.936	JB	0.0477	5.43	1
11031	123478-HxCDF	70648-26-9	0.582	JB	0.0639	5.43	1
11031	123678-HxCDF	57117-44-9	0.340	JBQ	0.0616	5.43	1
11031	123789-HxCDF	72918-21-9	1.13	JB	0.0713	5.43	1
11031	234678-HxCDF	60851-34-5	0.537	JB	0.0609	5.43	1
11031	1234678-HpCDF	67562-39-4	4.53	JB	0.0412	5.43	1
11031	1234789-HpCDF	55673-89-7	0.360	JB	0.0539	5.43	1
11031	OCDF	39001-02-0	16.8	B	0.0715	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-093-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-093-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-093-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301500
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X093- SDG#: DX094-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 17:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-117-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0217	U	0.0217	1.10	1
11031	12378-PeCDD	40321-76-4	0.127	JBQ	0.0413	5.50	1
11031	123478-HxCDD	39227-28-6	0.180	J	0.0755	5.50	1
11031	123678-HxCDD	57653-85-7	0.855	JB	0.0802	5.50	1
11031	123789-HxCDD	19408-74-3	0.693	JB	0.0779	5.50	1
11031	1234678-HpCDD	35822-46-9	15.6	B	0.0886	5.50	1
11031	OCDD	3268-87-9	180	B	0.101	11.0	1
11031	2378-TCDF	51207-31-9	0.219	JB	0.0981	1.10	1
11031	12378-PeCDF	57117-41-6	0.757	JB	0.0441	5.50	1
11031	23478-PeCDF	57117-31-4	0.300	JBQ	0.0425	5.50	1
11031	123478-HxCDF	70648-26-9	0.137	JBQ	0.0593	5.50	1
11031	123678-HxCDF	57117-44-9	0.215	JB	0.0572	5.50	1
11031	123789-HxCDF	72918-21-9	0.642	JB	0.0696	5.50	1
11031	234678-HxCDF	60851-34-5	0.206	JB	0.0572	5.50	1
11031	1234678-HpCDF	67562-39-4	2.47	JB	0.101	5.50	1
11031	1234789-HpCDF	55673-89-7	0.165	JB	0.146	5.50	1
11031	OCDF	39001-02-0	7.02	JB	0.0602	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301501
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 18:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.4	B	0.0298	1.09	1
11031	12378-PeCDD	40321-76-4	96.9	B	0.0555	5.44	1
11031	123478-HxCDD	39227-28-6	98.6		0.121	5.44	1
11031	123678-HxCDD	57653-85-7	101	B	0.128	5.44	1
11031	123789-HxCDD	19408-74-3	96.9	B	0.119	5.44	1
11031	1234678-HpCDD	35822-46-9	202	B	0.138	5.44	1
11031	OCDD	3268-87-9	1,880	B	0.159	10.9	1
11031	2378-TCDF	51207-31-9	19.6	B	0.0800	1.09	1
11031	12378-PeCDF	57117-41-6	95.7	B	0.0467	5.44	1
11031	23478-PeCDF	57117-31-4	98.1	B	0.0456	5.44	1
11031	123478-HxCDF	70648-26-9	99.7	B	0.0610	5.44	1
11031	123678-HxCDF	57117-44-9	99.7	B	0.0582	5.44	1
11031	123789-HxCDF	72918-21-9	99.4	B	0.0667	5.44	1
11031	234678-HxCDF	60851-34-5	102	B	0.0585	5.44	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0603	5.44	1
11031	1234789-HpCDF	55673-89-7	99.4	B	0.0798	5.44	1
11031	OCDF	39001-02-0	228	B	0.0707	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301502
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 19:23	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.6	B	0.0290	1.10	1
11031	12378-PeCDD	40321-76-4	98.4	B	0.0675	5.51	1
11031	123478-HxCDD	39227-28-6	100		0.101	5.51	1
11031	123678-HxCDD	57653-85-7	102	B	0.106	5.51	1
11031	123789-HxCDD	19408-74-3	100	B	0.101	5.51	1
11031	1234678-HpCDD	35822-46-9	233	B	0.161	5.51	1
11031	OCDD	3268-87-9	2,350	B	0.225	11.0	1
11031	2378-TCDF	51207-31-9	19.1	B	0.0760	1.10	1
11031	12378-PeCDF	57117-41-6	98.7	B	0.0440	5.51	1
11031	23478-PeCDF	57117-31-4	98.3	B	0.0417	5.51	1
11031	123478-HxCDF	70648-26-9	103	B	0.0945	5.51	1
11031	123678-HxCDF	57117-44-9	101	B	0.0884	5.51	1
11031	123789-HxCDF	72918-21-9	102	B	0.0999	5.51	1
11031	234678-HxCDF	60851-34-5	102	B	0.0906	5.51	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0716	5.51	1
11031	1234789-HpCDF	55673-89-7	101	B	0.0938	5.51	1
11031	OCDF	39001-02-0	235	B	0.0696	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-117-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301503
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X117- SDG#: DX094-05MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 20:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0941	JB	0.0195	1.05	1
11031	12378-PeCDD	40321-76-4	0.407	JB	0.0431	5.26	1
11031	123478-HxCDD	39227-28-6	0.327	J	0.0727	5.26	1
11031	123678-HxCDD	57653-85-7	1.83	JB	0.0766	5.26	1
11031	123789-HxCDD	19408-74-3	1.43	JB	0.0758	5.26	1
11031	1234678-HpCDD	35822-46-9	44.3	B	0.113	5.26	1
11031	OCDD	3268-87-9	960	B	0.198	10.5	1
11031	2378-TCDF	51207-31-9	0.150	JBQ	0.0352	1.05	1
11031	12378-PeCDF	57117-41-6	0.454	JB	0.0206	5.26	1
11031	23478-PeCDF	57117-31-4	0.417	JB	0.0200	5.26	1
11031	123478-HxCDF	70648-26-9	0.485	JB	0.0559	5.26	1
11031	123678-HxCDF	57117-44-9	0.373	JB	0.0540	5.26	1
11031	123789-HxCDF	72918-21-9	1.38	JB	0.0613	5.26	1
11031	234678-HxCDF	60851-34-5	0.363	JB	0.0546	5.26	1
11031	1234678-HpCDF	67562-39-4	3.07	JB	0.0305	5.26	1
11031	1234789-HpCDF	55673-89-7	0.348	JBQ	0.0432	5.26	1
11031	OCDF	39001-02-0	14.1	B	0.0670	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-118-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301504
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:05

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X118- SDG#: DX094-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/14/2011 21:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X119- SDG#: DX094-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X119- SDG#: DX094-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.226 JB	0.0203	1.10	1
11031	12378-PeCDD	40321-76-4	1.97 JB	0.0814	5.49	1
11031	123478-HxCDD	39227-28-6	3.41 J	0.132	5.49	1
11031	123678-HxCDD	57653-85-7	15.6 B	0.139	5.49	1
11031	123789-HxCDD	19408-74-3	7.80 B	0.132	5.49	1
11031	1234678-HpCDD	35822-46-9	1,110 B	0.476	5.49	1
11031	OCDD	3268-87-9	17,900 EB	0.371	11.0	1
11031	2378-TCDF	51207-31-9	0.722 JB	0.117	1.10	1
11031	12378-PeCDF	57117-41-6	1.31 JB	0.0563	5.49	1
11031	23478-PeCDF	57117-31-4	1.45 JB	0.0530	5.49	1
11031	123478-HxCDF	70648-26-9	1.88 JB	0.0711	5.49	1
11031	123678-HxCDF	57117-44-9	1.70 JB	0.0698	5.49	1
11031	123789-HxCDF	72918-21-9	1.55 JB	0.0711	5.49	1
11031	234678-HxCDF	60851-34-5	2.12 JB	0.0684	5.49	1
11031	1234678-HpCDF	67562-39-4	31.0 B	0.0844	5.49	1
11031	1234789-HpCDF	55673-89-7	2.98 JB	0.103	5.49	1
11031	OCDF	39001-02-0	68.7 B	0.0549	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	71	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

X119- SDG#: DX094-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-119-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301505
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:45

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X119- SDG#: DX094-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/15/2011 23:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.161	JB	0.0237	1.05	1
11031	12378-PeCDD	40321-76-4	1.20	JB	0.0756	5.27	1
11031	123478-HxCDD	39227-28-6	2.29	J	0.0932	5.27	1
11031	123678-HxCDD	57653-85-7	8.99	B	0.0954	5.27	1
11031	123789-HxCDD	19408-74-3	5.49	B	0.0923	5.27	1
11031	1234678-HpCDD	35822-46-9	305	B	0.278	5.27	1
11031	OCDD	3268-87-9	5,320	EB	0.195	10.5	1
11031	2378-TCDF	51207-31-9	0.532	JB	0.116	1.05	1
11031	12378-PeCDF	57117-41-6	1.07	JB	0.0545	5.27	1
11031	23478-PeCDF	57117-31-4	1.27	JB	0.0516	5.27	1
11031	123478-HxCDF	70648-26-9	1.46	JB	0.0687	5.27	1
11031	123678-HxCDF	57117-44-9	0.941	JB	0.0645	5.27	1
11031	123789-HxCDF	72918-21-9	1.40	JB	0.0648	5.27	1
11031	234678-HxCDF	60851-34-5	1.12	JB	0.0610	5.27	1
11031	1234678-HpCDF	67562-39-4	19.3	B	0.0623	5.27	1
11031	1234789-HpCDF	55673-89-7	1.28	JB	0.0755	5.27	1
11031	OCDF	39001-02-0	82.5	B	0.0562	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301506
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 11:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X120- SDG#: DX094-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 00:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.155	JBQ	0.0225	1.16	1
11031	12378-PeCDD	40321-76-4	1.98	JB	0.0604	5.78	1
11031	123478-HxCDD	39227-28-6	1.15	J	0.0844	5.78	1
11031	123678-HxCDD	57653-85-7	3.24	JB	0.0885	5.78	1
11031	123789-HxCDD	19408-74-3	3.05	JB	0.0840	5.78	1
11031	1234678-HpCDD	35822-46-9	67.6	B	0.115	5.78	1
11031	OCDD	3268-87-9	1,170	B	0.114	11.6	1
11031	2378-TCDF	51207-31-9	0.389	JB	0.0987	1.16	1
11031	12378-PeCDF	57117-41-6	0.416	JB	0.0404	5.78	1
11031	23478-PeCDF	57117-31-4	0.270	JB	0.0368	5.78	1
11031	123478-HxCDF	70648-26-9	0.494	JB	0.0569	5.78	1
11031	123678-HxCDF	57117-44-9	0.345	JBQ	0.0547	5.78	1
11031	123789-HxCDF	72918-21-9	1.27	JB	0.0527	5.78	1
11031	234678-HxCDF	60851-34-5	0.484	JB	0.0495	5.78	1
11031	1234678-HpCDF	67562-39-4	5.69	JB	0.0439	5.78	1
11031	1234789-HpCDF	55673-89-7	0.401	JBQ	0.0472	5.78	1
11031	OCDF	39001-02-0	17.2	B	0.0422	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-122-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA5DN-SS-0.0-0.5

LLI Sample # SW 6301507
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:25

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X122- SDG#: DX094-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 01:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0789	JB	0.0149	1.10	1
11031	12378-PeCDD	40321-76-4	0.526	JB	0.0444	5.50	1
11031	123478-HxCDD	39227-28-6	0.817	J	0.0501	5.50	1
11031	123678-HxCDD	57653-85-7	3.25	JB	0.0519	5.50	1
11031	123789-HxCDD	19408-74-3	2.34	JB	0.0492	5.50	1
11031	1234678-HpCDD	35822-46-9	95.1	B	0.119	5.50	1
11031	OCDD	3268-87-9	1,510	B	0.0859	11.0	1
11031	2378-TCDF	51207-31-9	0.255	JB	0.0562	1.10	1
11031	12378-PeCDF	57117-41-6	0.560	JB	0.0328	5.50	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0295	5.50	1
11031	123478-HxCDF	70648-26-9	0.633	JB	0.0383	5.50	1
11031	123678-HxCDF	57117-44-9	0.454	JB	0.0367	5.50	1
11031	123789-HxCDF	72918-21-9	1.25	JB	0.0398	5.50	1
11031	234678-HxCDF	60851-34-5	0.727	JB	0.0365	5.50	1
11031	1234678-HpCDF	67562-39-4	7.10	B	0.0331	5.50	1
11031	1234789-HpCDF	55673-89-7	0.544	JB	0.0397	5.50	1
11031	OCDF	39001-02-0	25.7	B	0.0310	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA5DN-QC-052711 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5DN-QC-052711

LLI Sample # SW 6301508
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 10:55

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDUP9 SDG#: DX094-10FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 02:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11160162402B	06/09/2011 21:05	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226 JBQ	0.0179	1.16	1
11031	12378-PeCDD	40321-76-4	0.0160 U	0.0160	5.82	1
11031	123478-HxCDD	39227-28-6	0.0159 U	0.0159	5.82	1
11031	123678-HxCDD	57653-85-7	0.0208 JBQ	0.0166	5.82	1
11031	123789-HxCDD	19408-74-3	0.0386 JBQ	0.0152	5.82	1
11031	1234678-HpCDD	35822-46-9	0.535 JB	0.0296	5.82	1
11031	OCDD	3268-87-9	3.17 JB	0.0255	11.6	1
11031	2378-TCDF	51207-31-9	0.0142 U	0.0142	1.16	1
11031	12378-PeCDF	57117-41-6	0.00853 U	0.00853	5.82	1
11031	23478-PeCDF	57117-31-4	0.0418 JBQ	0.00770	5.82	1
11031	123478-HxCDF	70648-26-9	0.0134 JBQ	0.00912	5.82	1
11031	123678-HxCDF	57117-44-9	0.0137 JBQ	0.00818	5.82	1
11031	123789-HxCDF	72918-21-9	0.0312 JBQ	0.00889	5.82	1
11031	234678-HxCDF	60851-34-5	0.0106 JBQ	0.00818	5.82	1
11031	1234678-HpCDF	67562-39-4	0.0675 JBQ	0.0145	5.82	1
11031	1234789-HpCDF	55673-89-7	0.0243 JB	0.0191	5.82	1
11031	OCDF	39001-02-0	0.174 JBQ	0.0329	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-4.0-5.0

LLI Sample # SW 6301509
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:10

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0034 SDG#: DX094-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 03:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	19.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0435 JBQ	0.0183	1.23	1
11031	12378-PeCDD	40321-76-4	0.0314 JBQ	0.0192	6.14	1
11031	123478-HxCDD	39227-28-6	0.0515 JQ	0.0333	6.14	1
11031	123678-HxCDD	57653-85-7	0.0656 JBQ	0.0340	6.14	1
11031	123789-HxCDD	19408-74-3	0.0711 JBQ	0.0320	6.14	1
11031	1234678-HpCDD	35822-46-9	0.582 JBQ	0.0489	6.14	1
11031	OCDD	3268-87-9	1.59 JB	0.0396	12.3	1
11031	2378-TCDF	51207-31-9	0.0159 U	0.0159	1.23	1
11031	12378-PeCDF	57117-41-6	0.0296 JB	0.0115	6.14	1
11031	23478-PeCDF	57117-31-4	0.0732 JB	0.0103	6.14	1
11031	123478-HxCDF	70648-26-9	0.0595 JB	0.0155	6.14	1
11031	123678-HxCDF	57117-44-9	0.0321 JB	0.0138	6.14	1
11031	123789-HxCDF	72918-21-9	0.0693 JBQ	0.0150	6.14	1
11031	234678-HxCDF	60851-34-5	0.0411 JBQ	0.0138	6.14	1
11031	1234678-HpCDF	67562-39-4	0.129 JBQ	0.0195	6.14	1
11031	1234789-HpCDF	55673-89-7	0.0876 JBQ	0.0263	6.14	1
11031	OCDF	39001-02-0	0.273 JB	0.0399	12.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
LLI Group # 1249135
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/27/2011 09:30

Submitted: 05/28/2011 09:00
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8N-SB-9.0-10.0

LLI Sample # SW 6301510
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0039 SDG#: DX094-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 07:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401A	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249135
Reported: 06/22/11 at 11:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11159162401A	Sample number(s): 6301497-6301500,6301507,6301509-6301510								
Moisture Content by 160.3					100		80-120		
Batch number: 11160162402B	Sample number(s): 6301501-6301506,6301508								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11161004	Sample number(s): 6301497-6301510								
2378-TCDD	0.0293 J	0.0208	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0393 J	0.0207	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0220 U	0.0220	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0749 J	0.0226	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0576 J	0.0222	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.392 J	0.0365	5.00	ng/kg	87		70-140		
OCDD	0.908 J	0.0402	10.0	ng/kg	90		78-144		
2378-TCDF	0.0325 J	0.0178	1.00	ng/kg	87		75-158		
12378-PeCDF	0.0495 J	0.0110	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0792 J	0.0109	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0820 J	0.0170	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0553 J	0.0157	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0995 J	0.0173	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0978 J	0.0154	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.236 J	0.0145	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.107 J	0.0220	5.00	ng/kg	91		78-138		
OCDF	0.347 J	0.0453	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11159162401A	Sample number(s): 6301497-6301500,6301507,6301509-6301510 BKG: P301485								
Moisture Content by 160.3						15.6	15.8	1	20
Batch number: 11160162402B	Sample number(s): 6301501-6301506,6301508 BKG: P301476								
Moisture Content by 160.3						9.5	9.8	2	20
Batch number: 11161004	Sample number(s): 6301497-6301510 UNSPK: 6301501								
2378-TCDD	84	84	67-158	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249135
Reported: 06/22/11 at 11:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	89	89	70-142	2	25				
123478-HxCDD	90	90	70-164	1	25				
123678-HxCDD	92	92	76-134	1	25				
123789-HxCDD	88	90	64-162	3	25				
1234678-HpCDD	172*	197*	70-140	14	25				
OCDD	781*	986*	78-144	23	25				
2378-TCDF	89	86	75-158	2	25				
12378-PeCDF	87	89	80-134	3	25				
23478-PeCDF	90	89	68-160	0	25				
123478-HxCDF	92	93	72-134	3	25				
123678-HxCDF	91	92	84-130	1	25				
123789-HxCDF	91	91	78-130	2	25				
234678-HxCDF	93	92	70-156	0	25				
1234678-HpCDF	95	97	82-122	3	25				
1234789-HpCDF	91	91	78-138	1	25				
OCDF	101	103	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11161004

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6301497	73	61	69	70	70	70
6301498	73	63	70	72	70	67
6301499	73	64	69	69	69	72
6301500	78	68	74	74	73	73
6301501	75	68	71	72	71	71
6301502	74	65	70	72	70	74
6301503	74	67	70	72	72	76
6301504	84	77	82	85	83	86
6301505	77	70	69	69	71	76
6301506	63	59	57	58	59	64
6301507	75	68	64	64	69	76
6301508	73	68	68	68	69	74
6301509	67	65	63	66	66	73
6301510	66	63	66	69	69	77
Blank	73	68	71	76	76	81
MS	74	65	70	72	70	74
MSD	74	67	70	72	72	76
OPR	60	57	66	69	67	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249135
Reported: 06/22/11 at 11:17 PM

Surrogate Quality Control

6301497	63	59	48	83	66	73
6301498	65	59	49	81	67	75
6301499	65	60	51	82	69	71
6301500	68	63	52	86	71	77
6301501	67	59	48	85	71	75
6301502	69	62	54	82	70	75
6301503	71	64	56	82	71	75
6301504	83	72	60	93	81	85
6301505	72	73	68	84	77	76
6301506	62	62	60	73	63	64
6301507	70	75	74	81	74	75
6301508	75	74	72	83	74	76
6301509	79	69	63	81	72	73
6301510	80	71	66	81	70	76
Blank	83	66	53	91	74	84
MS	69	62	54	82	70	75
MSD	71	64	56	82	71	75
OPR	72	56	46	77	62	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6301497	73	74	65	53	67	62
6301498	72	73	66	55	67	64
6301499	71	72	66	56	68	64
6301500	75	76	70	57	71	68
6301501	72	74	67	53	71	69
6301502	72	75	69	61	68	68
6301503	74	76	71	63	68	69
6301504	86	86	80	68	77	79
6301505	74	76	82	85	70	70
6301506	62	65	68	68	58	59
6301507	71	75	80	79	67	67
6301508	72	75	79	80	65	67
6301509	70	74	77	74	60	66
6301510	74	75	80	77	58	63
Blank	80	82	77	64	66	71
MS	72	75	69	61	68	68
MSD	74	76	71	63	68	69
OPR	70	72	67	55	54	58
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct # 13013 LI # 6301497-510 GR # 1249135

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								SS ONLY		SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-071-SA5DN-SS-0.0-0.5	5.27.11	0825	SOIL	NONE	1-SS Sleeve			X	X																
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-091-SA5DN-SS-0.0-0.5	5.27.11	0905	SOIL	NONE	1-SS Sleeve			X	X																
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-092-SA5DN-SS-0.0-0.5	5.27.11	0945	SOIL	NONE	1-SS Sleeve			X	X																
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-093-SA5DN-SS-0.0-0.5	5.27.11	1005	SOIL	NONE	1-SS Sleeve			X	X																
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	4-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	MS/MSD
SL-117-SA5DN-SS-0.0-0.5MS	5.27.11	1045	SOIL	NONE	2-SS Sleeve			X	X																MS/MSD
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-118-SA5DN-SS-0.0-0.5	5.27.11	1105	SOIL	NONE	1-SS Sleeve			X	X																
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-119-SA5DN-SS-0.0-0.5	5.27.11	1145	SOIL	NONE	1-SS Sleeve			X	X																
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
SL-120-SA5DN-SS-0.0-0.5	5.27.11	1125	SOIL	NONE	1-SS Sleeve			X	X																
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-16 oz. jars	X	X			X	X	X	X		X	X									
SL-122-SA5DN-SS-0.0-0.5	5.27.11	0925	SOIL	NONE	1-SS Sleeve			X	X																
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	2-16 oz. jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	
DUP09-SA5DN-QC-052711	5.27.11	1055	SOIL	NONE	1-SS Sleeve			X	X																

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	05/27/2011 / 1700	5/28/11 900	Laboratory:
Received by: (Signature)	Date/Time	Airbill No.(s)	Lancaster Laboratories, Inc.

Acct# 13613 LL# 6301497-510 GR# 1249135

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-003-SA8N-SB-4.5	5.27.11	0905	SOIL	NONE	4-Encores										X	X											
SL-003-SA8N-SB-4.0-5.0	5.27.11	0910	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X												X		
SL-003-SA8N-SB-9.0-10.0	5.27.11	0930	SOIL	NONE	3-16 oz. Jars	X	X	X	X	X	X	X	X	X											X		
TB-052711	5.27.11	0800	WATER	NONE	3-40mL Vials										X	X											

Relinquished by: (*Signature*) — Date/Time: 05/27/2011 / 1700

Received for Laboratory by: (*Signature*) 5/28/11 900

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8754 3340 1890, 1880

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/01/2011
Group Number: 1249333
SDG: DE169
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-014-SA5DN-SB-4.0-5.0 Soil	6302747
SL-014-SA5DN-SB-4.0-5.0MS Soil	6302748
SL-014-SA5DN-SB-4.0-5.0MSD Soil	6302749
SL-014-SA5DN-SB-4.0-5.0DUP Soil	6302750
SL-014-SA5DN-SB-9.0-10.0 Soil	6302751
EB11-SA5DN-SB-053111 Water	6302752
TB-053111 Water	6302753
SL-094-SA5DN-SS-0.0-0.5 Soil	6302754
SL-095-SA5DN-SS-0.0-0.5 Soil	6302755
SL-097-SA5DN-SS-0.0-0.5 Soil	6302756
SL-098-SA5DN-SS-0.0-0.5 Soil	6302757
SL-099-SA5DN-SS-0.0-0.5 Soil	6302758
SL-101-SA5DN-SS-0.0-0.5 Soil	6302759
SL-102-SA5DN-SS-0.0-0.5 Soil	6302760
SL-103-SA5DN-SS-0.0-0.5 Soil	6302761
SL-104-SA5DN-SS-0.0-0.5 Soil	6302762
SL-110-SA5DN-SS-0.0-0.5 Soil	6302763
SL-111-SA5DN-SS-0.0-0.5 Soil	6302764
SL-112-SA5DN-SS-0.0-0.5 Soil	6302765
SL-113-SA5DN-SS-0.0-0.5 Soil	6302766
SL-114-SA5DN-SS-0.0-0.5 Soil	6302767
SL-121-SA5DN-SS-0.0-0.5 Soil	6302768
SL-125-SA5DN-SS-0.0-0.5 Soil	6302769
EB10-SA5DN-SS-053111 Water	6302770

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

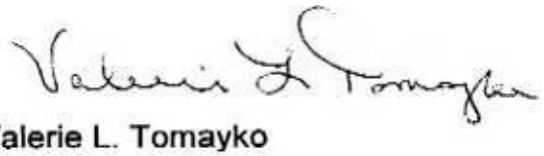
Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2		6.7	8.0		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.19	J	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	2.1	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08	U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.0	U	6.0	18		26.1
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	21.4	J	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

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Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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-1404 SDG#: DE169-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

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-1404 SDG#: DE169-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.71	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,300		5.57	22.1		1
07914	Boron	7440-42-8	0.985	U	0.985	5.54		1
01650	Calcium	7440-70-2	6,810		6.79	22.1		1
01654	Iron	7439-89-6	34,300		10.4	44.3		2
01656	Lithium	7439-93-2	28.5		0.24	2.2		1
01657	Magnesium	7439-95-4	6,890		2.81	11.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	1,370		0.173	1.11		2
10145	Phosphorus	7723-14-0	169		0.620	11.1		1
01662	Potassium	7440-09-7	2,520		19.9	55.4		1
01667	Sodium	7440-23-5	741		41.3	111		1
07968	Strontium	7440-24-6	49.7		0.0686	0.554		1
06969	Tin	7440-31-5	2.93	J	1.11	11.1		1
06970	Titanium	7440-32-6	963		0.421	1.11		1
10146	Zirconium	7440-67-7	2.09	J	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.63		0.0903	0.452		2
06126	Barium	7440-39-3	148		0.122	0.452		2
06127	Beryllium	7440-41-7	0.867		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.148		0.0452	0.113		2
06131	Chromium	7440-47-3	26.9		0.135	0.452		2
06132	Cobalt	7440-48-4	12.6		0.0226	0.113		2
06133	Copper	7440-50-8	13.5		0.0745	0.452		2
06135	Lead	7439-92-1	9.75		0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.311		0.0564	0.113		2
06139	Nickel	7440-02-0	18.2		0.113	0.452		2
06141	Selenium	7782-49-2	0.0640	J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0847	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.301		0.0339	0.113		2
06148	Vanadium	7440-62-2	42.9		0.0248	0.113		2
06149	Zinc	7440-66-6	59.7		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.2		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.95	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-014-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 04:39	Holly Berry	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531BA	06/02/2011 13:48	Jason M Long	26.1
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115224558	06/01/2011 12:48	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 11:24	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011 02:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011 12:03	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34B	06/02/2011 14:22	Elizabeth J Marin	24.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:48	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 02:57	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 19:53	James H Place	1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 19:25	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 10:29	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 19:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 21:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 01:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 03:48	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/14/2011 04:05	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/14/2011 04:05	John W Yanzuk II	2
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 10:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 01:58	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 01:58	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 01:58	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 01:58	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:40	Nelli S Markaryan	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302747
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	2	11158621201A	06/16/2011 02:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 02:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/13/2011 09:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 10:12	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:17	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	170	8.1	9.7		1.06
06192	Benzene	71-43-2	28	0.12	4.8		1.06
06192	Bromobenzene	108-86-1	27	0.16	4.8		1.06
06192	Bromochloromethane	74-97-5	27	0.40	4.8		1.06
06192	Bromodichloromethane	75-27-4	26	0.1	4.8		1.06
06192	Bromoform	75-25-2	23	0.48	4.8		1.06
06192	Bromomethane	74-83-9	22	0.30	4.8		1.06
06192	2-Butanone	78-93-3	150	1.5	9.7		1.06
06192	n-Butylbenzene	104-51-8	29	0.14	4.8		1.06
06192	sec-Butylbenzene	135-98-8	29	0.07	4.8		1.06
06192	tert-Butylbenzene	98-06-6	28	0.19	4.8		1.06
06192	Carbon Tetrachloride	56-23-5	30	0.17	4.8		1.06
06192	Chlorobenzene	108-90-7	28	0.13	4.8		1.06
06192	Chloroethane	75-00-3	21	0.16	4.8		1.06
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.36	4.8		1.06
06192	Chloroform	67-66-3	28	0.14	4.8		1.06
06192	Chloromethane	74-87-3	24	0.40	4.8		1.06
06192	2-Chlorotoluene	95-49-8	28	0.17	4.8		1.06
06192	4-Chlorotoluene	106-43-4	28	0.17	4.8		1.06
06192	Chlorotrifluoroethene	79-38-9	16	0.60	6.0		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	20	0.85	4.8		1.06
06192	Dibromochloromethane	124-48-1	25	0.24	4.8		1.06
06192	1,2-Dibromoethane	106-93-4	25	0.21	4.8		1.06
06192	Dibromomethane	74-95-3	24	0.29	4.8		1.06
06192	1,2-Dichlorobenzene	95-50-1	27	0.11	4.8		1.06
06192	1,3-Dichlorobenzene	541-73-1	27	0.14	4.8		1.06
06192	1,4-Dichlorobenzene	106-46-7	27	0.19	4.8		1.06
06192	Dichlorodifluoromethane	75-71-8	23	0.14	4.8		1.06
06192	1,1-Dichloroethane	75-34-3	29	0.12	4.8		1.06
06192	1,2-Dichloroethane	107-06-2	27	0.18	4.8		1.06
06192	1,1-Dichloroethene	75-35-4	32	0.47	4.8		1.06
06192	cis-1,2-Dichloroethene	156-59-2	27	0.23	4.8		1.06
06192	trans-1,2-Dichloroethene	156-60-5	28	0.14	4.8		1.06
06192	1,2-Dichloropropane	78-87-5	26	0.21	4.8		1.06
06192	1,3-Dichloropropane	142-28-9	25	0.1	4.8		1.06
06192	2,2-Dichloropropane	594-20-7	29	0.21	4.8		1.06
06192	1,1-Dichloropropene	563-58-6	30	0.16	4.8		1.06
06192	cis-1,3-Dichloropropene	10061-01-5	24	0.19	4.8		1.06
06192	trans-1,3-Dichloropropene	10061-02-6	24	0.21	4.8		1.06
06192	Ethylbenzene	100-41-4	29	0.07	4.8		1.06
06192	Freon 113	76-13-1	32	0.13	4.8		1.06
06192	Freon 133a	75-88-7	23	0.60	6.0		1.05
06192	Hexachlorobutadiene	87-68-3	25	0.17	4.8		1.06
06192	2-Hexanone	591-78-6	100	1.9	9.7		1.06
06192	Isopropylbenzene	98-82-8	30	0.07	4.8		1.06
06192	p-Isopropyltoluene	99-87-6	29	0.13	4.8		1.06
06192	Methyl Tertiary Butyl Ether	1634-04-4	23	0.25	4.8		1.06
06192	4-Methyl-2-pentanone	108-10-1	100	0.47	9.7		1.06
06192	Methylene Chloride	75-09-2	31	0.29	4.8		1.06
06192	n-Propylbenzene	103-65-1	29	0.08	4.8		1.06

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	28	0.12	4.8		1.06
06192	1,1,1,2-Tetrachloroethane	630-20-6	27	0.13	4.8		1.06
06192	1,1,2,2-Tetrachloroethane	79-34-5	22	0.28	4.8		1.06
06192	Tetrachloroethene	127-18-4	31	0.24	4.8		1.06
06192	Toluene	108-88-3	29	0.1	4.8		1.06
06192	1,2,3-Trichlorobenzene	87-61-6	24	0.17	4.8		1.06
06192	1,2,4-Trichlorobenzene	120-82-1	23	0.22	4.8		1.06
06192	1,1,1-Trichloroethane	71-55-6	29	0.24	4.8		1.06
06192	1,1,2-Trichloroethane	79-00-5	25	0.33	4.8		1.06
06192	Trichloroethene	79-01-6	28	0.18	4.8		1.06
06192	Trichlorofluoromethane	75-69-4	28	0.35	4.8		1.06
06192	1,2,3-Trichloropropane	96-18-4	22	0.40	4.8		1.06
06192	1,2,4-Trimethylbenzene	95-63-6	28	0.48	4.8		1.06
06192	1,3,5-Trimethylbenzene	108-67-8	29	0.12	4.8		1.06
06192	Vinyl Chloride	75-01-4	24	0.24	4.8		1.06
06192	m+p-Xylene	179601-23-1	60	0.21	4.8		1.06
06192	o-Xylene	95-47-6	28	0.21	4.8		1.06
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110	5.6	17		24.61
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	800	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	2,400	19	190		1
04688	Acenaphthylene	208-96-8	2,400	19	190		1
04688	Aniline	62-53-3	1,900	190	570		1
04688	Anthracene	120-12-7	2,500	19	190		1
04688	Benzidine	92-87-5	7,400	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	2,500	19	190		1
04688	Benzo(a)pyrene	50-32-8	2,500	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	2,300	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,800	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	2,600	19	190		1
04688	Benzoic acid	65-85-0	1,400	190	570		1
04688	Benzyl alcohol	100-51-6	2,300	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	2,300	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,600	19	190		1
04688	Di-n-butylphthalate	84-74-2	2,400	19	190		1
04688	Carbazole	86-74-8	2,400	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	2,400	38	190		1
04688	4-Chloroaniline	106-47-8	1,600	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,300	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,200	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,100	19	190		1
04688	2-Chloronaphthalene	91-58-7	2,100	19	190		1
04688	2-Chlorophenol	95-57-8	2,400	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,400	38	190		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	2,500		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,700		19	190		1
04688	Dibenzofuran	132-64-9	2,300		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	2,100		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	2,100		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	2,100		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,400		19	190		1
04688	Diethylphthalate	84-66-2	2,400		19	190		1
04688	2,4-Dimethylphenol	105-67-9	2,400		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	2,300		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	810		190	570		1
04688	2,4-Dinitrophenol	51-28-5	690	J	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	2,400		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	2,400		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,500		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,500		19	380		1
04688	Fluoranthene	206-44-0	2,500		19	190		1
04688	Fluorene	86-73-7	2,400		19	190		1
04688	Hexachlorobenzene	118-74-1	2,400		19	190		1
04688	Hexachlorobutadiene	87-68-3	2,200		76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,700		190	570		1
04688	Hexachloroethane	67-72-1	2,100		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,700		19	190		1
04688	Isophorone	78-59-1	2,300		19	190		1
04688	1-Methylnaphthalene	90-12-0	2,400		19	190		1
04688	2-Methylnaphthalene	91-57-6	2,200		19	190		1
04688	2-Methylphenol	95-48-7	2,300		38	190		1
04688	4-Methylphenol	106-44-5	2,200		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	2,300		19	190		1
04688	2-Nitroaniline	88-74-4	2,500		19	190		1
04688	3-Nitroaniline	99-09-2	2,300		38	190		1
04688	4-Nitroaniline	100-01-6	1,800		76	190		1
04688	Nitrobenzene	98-95-3	2,300		19	190		1
04688	2-Nitrophenol	88-75-5	2,400		19	190		1
04688	4-Nitrophenol	100-02-7	1,900		190	570		1
04688	N-Nitrosodimethylamine	62-75-9	2,000		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	2,200		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,400		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,600		19	190		1
04688	Pentachlorophenol	87-86-5	1,700		190	570		1
04688	Phenanthrene	85-01-8	2,300		19	190		1
04688	Phenol	108-95-2	2,100		19	190		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	2,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	2,300		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,400		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,400		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	30		0.75	1.9		1
10138	Acenaphthylene	208-96-8	29		0.38	1.9		1
10138	Anthracene	120-12-7	32		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	35		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	35		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	39		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	21		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	40		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	37		6.8	20		1
10138	Chrysene	218-01-9	34		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	26		0.75	1.9		1
10138	Diethylphthalate	84-66-2	32		6.8	20		1
10138	Dimethylphthalate	131-11-3	32		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.8	20		1
10138	Fluoranthene	206-44-0	34		0.75	1.9		1
10138	Fluorene	86-73-7	31		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	33		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	30		0.75	1.9		1
10138	Naphthalene	91-20-3	31		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	45		6.8	20		1
10138	Phenanthrene	85-01-8	31		0.75	1.9		1
10138	Pyrene	129-00-0	31		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.8		0.2	1.2		25.35
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		67	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,600		45	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,400		45	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	130		1
10132	HMX	2691-41-0	2,100		110	340		1
10132	Nitrobenzene	98-95-3	2,400		45	130		1
10132	Nitroglycerin	55-63-0	51,000		890	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		89	130		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	2,500		110	130		1
10132	4-Nitrotoluene	99-99-0	2,300		89	130		1
10132	PETN	78-11-5	64,000		890	2,700		1
10132	RDX	121-82-4	2,000		56	130		1
10132	Tetryl	479-45-8	1,800		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		45	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,500		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	16		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	22		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.99	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.7		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.2		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	2.9		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.84	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,400		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,400		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	100		5.7	11		1
08283	Ethylene glycol	107-21-1	170		5.7	11		1
08283	Propylene glycol	57-55-6	170		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.4	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	4.0		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	J	1.6	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,600		5.68	22.6		1
07914	Boron	7440-42-8	240		1.00	5.64		1
01650	Calcium	7440-70-2	8,960		6.92	22.6		1
01654	Iron	7439-89-6	34,400		10.6	45.2		2
01656	Lithium	7439-93-2	141		0.25	2.3		1
01657	Magnesium	7439-95-4	7,200		2.87	11.3		1
06958	Manganese	7439-96-5	1,150		0.176	1.13		2
10145	Phosphorus	7723-14-0	273		0.632	11.3		1
01662	Potassium	7440-09-7	3,690		20.3	56.4		1
01667	Sodium	7440-23-5	1,790		42.1	113		1
07968	Strontium	7440-24-6	160		0.0700	0.564		1
06969	Tin	7440-31-5	394		1.13	11.3		1
06970	Titanium	7440-32-6	1,180		0.429	1.13		1
10146	Zirconium	7440-67-7	110		0.948	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.918		0.0684	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.24		0.0912	0.456		2
06126	Barium	7440-39-3	170		0.123	0.456		2
06127	Beryllium	7440-41-7	1.64		0.0182	0.114		2
06128	Cadmium	7440-43-9	1.35		0.0456	0.114		2
06131	Chromium	7440-47-3	41.2		0.137	0.456		2
06132	Cobalt	7440-48-4	67.7		0.0228	0.114		2
06133	Copper	7440-50-8	26.4		0.0753	0.456		2
06135	Lead	7439-92-1	12.8		0.0119	0.228		2
06138	Molybdenum	7439-98-7	11.0		0.0570	0.114		2
06139	Nickel	7440-02-0	35.8		0.114	0.456		2
06141	Selenium	7782-49-2	2.11		0.0456	0.456		2
06142	Silver	7440-22-4	12.0		0.0137	0.114		2
06145	Thallium	7440-28-0	0.733		0.0342	0.114		2
06148	Vanadium	7440-62-2	66.8		0.0251	0.114		2
06149	Zinc	7440-66-6	71.3		0.639	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.210		0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	22.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.0		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	550		10.3	34.2		1

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	41.7	1.1	5.7		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.7	0.19	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-014-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 05:01	Holly Berry	1.06
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 05:45	Holly Berry	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531BA	06/02/2011 14:08	Jason M Long	24.61
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115224558	06/01/2011 12:51	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 11:42	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011 02:30	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011 12:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34B	06/02/2011 14:58	Elizabeth J Marin	25.35
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:51	Christopher D Meeks	n.a.

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 03:39	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 20:03	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 19:44	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 10:54	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 19:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 21:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 01:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/14/2011 04:17	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/14/2011 04:17	John W Yanzuk II	2
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:05	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:07	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:07	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302748
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	2	11158621201A	06/16/2011 03:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 03:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 06:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 10:24	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:19	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.6	7.9		0.87
06192	Benzene	71-43-2	22	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	21	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	22	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	21	0.08	4.0		0.87
06192	Bromoform	75-25-2	19	0.40	4.0		0.87
06192	Bromomethane	74-83-9	17	0.25	4.0		0.87
06192	2-Butanone	78-93-3	140	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	21	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	21	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	21	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	23	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	21	0.11	4.0		0.87
06192	Chloroethane	75-00-3	16	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.30	4.0		0.87
06192	Chloroform	67-66-3	22	0.12	4.0		0.87
06192	Chloromethane	74-87-3	19	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	20	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	21	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	15	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	19	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	20	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	20	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	20	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	20	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	20	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	18	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	22	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	23	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	24	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	22	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	22	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	21	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	21	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	23	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	23	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	21	0.06	4.0		0.87
06192	Freon 113	76-13-1	25	0.11	4.0		0.87
06192	Freon 133a	75-88-7	22	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	18	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	96	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	22	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	21	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	92	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	25	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	21	0.07	4.0		0.87

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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-1404 SDG#: DE169-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	21	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	18	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	23	0.20	4.0		0.87
06192	Toluene	108-88-3	22	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	19	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	17	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	23	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	21	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	22	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	21	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	19	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	19	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	44	0.17	4.0		0.87
06192	o-Xylene	95-47-6	21	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	130	6.2	18		27
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	838	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	2,400	19	190		1
04688	Acenaphthylene	208-96-8	2,400	19	190		1
04688	Aniline	62-53-3	1,800	190	570		1
04688	Anthracene	120-12-7	2,400	19	190		1
04688	Benzidine	92-87-5	6,500	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	2,400	19	190		1
04688	Benzo(a)pyrene	50-32-8	2,400	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	2,300	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,700	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	2,500	19	190		1
04688	Benzoic acid	65-85-0	1,500	190	570		1
04688	Benzyl alcohol	100-51-6	2,400	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	2,300	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,500	19	190		1
04688	Di-n-butylphthalate	84-74-2	2,400	19	190		1
04688	Carbazole	86-74-8	2,400	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	2,400	38	190		1
04688	4-Chloroaniline	106-47-8	1,600	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,300	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,300	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,200	19	190		1
04688	2-Chloronaphthalene	91-58-7	2,100	19	190		1
04688	2-Chlorophenol	95-57-8	2,400	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,400	38	190		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	2,300		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,700		19	190		1
04688	Dibenzofuran	132-64-9	2,400		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	2,200		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	2,100		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	2,200		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,500		19	190		1
04688	Diethylphthalate	84-66-2	2,300		19	190		1
04688	2,4-Dimethylphenol	105-67-9	2,400		38	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000		38	190		1
04688	Dimethylphthalate	131-11-3	2,400		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100		190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,000	J	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	2,400		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	2,300		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,500		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,500		19	380		1
04688	Fluoranthene	206-44-0	2,400		19	190		1
04688	Fluorene	86-73-7	2,300		19	190		1
04688	Hexachlorobenzene	118-74-1	2,300		19	190		1
04688	Hexachlorobutadiene	87-68-3	2,300		76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	4,000		190	570		1
04688	Hexachloroethane	67-72-1	2,100		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,700		19	190		1
04688	Isophorone	78-59-1	2,400		19	190		1
04688	1-Methylnaphthalene	90-12-0	2,400		19	190		1
04688	2-Methylnaphthalene	91-57-6	2,200		19	190		1
04688	2-Methylphenol	95-48-7	2,300		38	190		1
04688	4-Methylphenol	106-44-5	2,300		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	2,300		19	190		1
04688	2-Nitroaniline	88-74-4	2,400		19	190		1
04688	3-Nitroaniline	99-09-2	2,200		38	190		1
04688	4-Nitroaniline	100-01-6	1,700		76	190		1
04688	Nitrobenzene	98-95-3	2,300		19	190		1
04688	2-Nitrophenol	88-75-5	2,300		19	190		1
04688	4-Nitrophenol	100-02-7	1,800		190	570		1
04688	N-Nitrosodimethylamine	62-75-9	2,200		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	2,300		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,400		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,600		19	190		1
04688	Pentachlorophenol	87-86-5	1,800		190	570		1
04688	Phenanthrene	85-01-8	2,300		19	190		1
04688	Phenol	108-95-2	2,200		19	190		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	2,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	2,300		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,300		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,500		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31		0.76	1.9		1
10138	Acenaphthylene	208-96-8	29		0.38	1.9		1
10138	Anthracene	120-12-7	33		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	36		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	40		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	21		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	41		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	40		6.8	21		1
10138	Di-n-butylphthalate	84-74-2	38		6.8	21		1
10138	Chrysene	218-01-9	36		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	27		0.76	1.9		1
10138	Diethylphthalate	84-66-2	31		6.8	21		1
10138	Dimethylphthalate	131-11-3	31		6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.8	21		1
10138	Fluoranthene	206-44-0	35		0.76	1.9		1
10138	Fluorene	86-73-7	32		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	34		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	30		0.76	1.9		1
10138	Naphthalene	91-20-3	31		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	45		6.8	21		1
10138	Phenanthrene	85-01-8	32		0.76	1.9		1
10138	Pyrene	129-00-0	33		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.4		0.2	1.1		23.76
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		65	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		43	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260		1
10132	1,3-Dinitrobenzene	99-65-0	2,400		43	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,200		43	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		43	130		1
10132	HMX	2691-41-0	1,900		110	320		1
10132	Nitrobenzene	98-95-3	2,200		43	130		1
10132	Nitroglycerin	55-63-0	46,000		860	2,600		1
10132	2-Nitrotoluene	88-72-2	2,100		86	130		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	2,300		110	130		1
10132	4-Nitrotoluene	99-99-0	2,100		86	130		1
10132	PETN	78-11-5	59,000		860	2,600		1
10132	RDX	121-82-4	1,800		54	130		1
10132	Tetryl	479-45-8	1,700		66	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		43	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		43	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,100		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	15		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	20		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.8		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.5		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.87	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,300		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	53		5.7	11		1
08283	Ethylene glycol	107-21-1	100		5.7	11		1
08283	Propylene glycol	57-55-6	100		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.4	4.0		1
10318	o-Terphenyl	84-15-1	1.6	J	1.6	4.0		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	J	1.6	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	37,700		5.74	22.8		1
07914	Boron	7440-42-8	242		1.01	5.70		1
01650	Calcium	7440-70-2	8,570		6.99	22.8		1
01654	Iron	7439-89-6	35,900		10.7	45.6		2
01656	Lithium	7439-93-2	144		0.25	2.3		1
01657	Magnesium	7439-95-4	7,580		2.90	11.4		1
06958	Manganese	7439-96-5	1,020		0.0889	0.570		1
10145	Phosphorus	7723-14-0	290		0.639	11.4		1
01662	Potassium	7440-09-7	3,880		20.5	57.0		1
01667	Sodium	7440-23-5	1,800		42.5	114		1
07968	Strontium	7440-24-6	160		0.0707	0.570		1
06969	Tin	7440-31-5	398		1.14	11.4		1
06970	Titanium	7440-32-6	1,420		0.433	1.14		1
10146	Zirconium	7440-67-7	112		0.958	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.871		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.44		0.0903	0.452		2
06126	Barium	7440-39-3	161		0.122	0.452		2
06127	Beryllium	7440-41-7	1.67		0.0181	0.113		2
06128	Cadmium	7440-43-9	1.31		0.0452	0.113		2
06131	Chromium	7440-47-3	39.0		0.135	0.452		2
06132	Cobalt	7440-48-4	64.7		0.0226	0.113		2
06133	Copper	7440-50-8	25.9		0.0745	0.452		2
06135	Lead	7439-92-1	13.5		0.0117	0.226		2
06138	Molybdenum	7439-98-7	10.8		0.0564	0.113		2
06139	Nickel	7440-02-0	35.6		0.113	0.452		2
06141	Selenium	7782-49-2	2.09		0.0452	0.452		2
06142	Silver	7440-22-4	11.5		0.0135	0.113		2
06145	Thallium	7440-28-0	0.723		0.0339	0.113		2
06148	Vanadium	7440-62-2	66.5		0.0248	0.113		2
06149	Zinc	7440-66-6	69.9		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.189		0.0031	0.107		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1

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Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-014-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 05:23	Holly Berry	0.87
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 06:08	Holly Berry	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531BA	06/02/2011 14:28	Jason M Long	27
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:55	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115224558	06/01/2011 12:54	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 11:59	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011 02:55	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011 13:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34B	06/02/2011 15:35	Elizabeth J Marin	23.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:54	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 04:22	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 20:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 20:02	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 11:19	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 19:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 21:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 02:34	Heather E Williams	1

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302749
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/14/2011 04:21	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:10	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:10	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302750
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,800		5.57	22.1		1
07914	Boron	7440-42-8	0.985	U	0.985	5.54		1
01650	Calcium	7440-70-2	9,810		6.79	22.1		1
01654	Iron	7439-89-6	32,100		10.4	44.3		2
01656	Lithium	7439-93-2	28.4		0.24	2.2		1
01657	Magnesium	7439-95-4	6,800		2.81	11.1		1
06958	Manganese	7439-96-5	495		0.0863	0.554		1
10145	Phosphorus	7723-14-0	171		0.620	11.1		1
01662	Potassium	7440-09-7	3,110		19.9	55.4		1
01667	Sodium	7440-23-5	652		41.3	111		1
07968	Strontium	7440-24-6	47.6		0.0686	0.554		1
06969	Tin	7440-31-5	2.95	J	1.11	11.1		1
06970	Titanium	7440-32-6	922		0.421	1.11		1
10146	Zirconium	7440-67-7	3.97	J	0.930	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207	J	0.0671	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.83		0.0894	0.447		2
06126	Barium	7440-39-3	150		0.121	0.447		2
06127	Beryllium	7440-41-7	0.872		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.265		0.0447	0.112		2
06131	Chromium	7440-47-3	27.5		0.134	0.447		2
06132	Cobalt	7440-48-4	11.5		0.0224	0.112		2
06133	Copper	7440-50-8	13.7		0.0738	0.447		2
06135	Lead	7439-92-1	9.01		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.311		0.0559	0.112		2
06139	Nickel	7440-02-0	22.4		0.112	0.447		2
06141	Selenium	7782-49-2	0.0510	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0671	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.312		0.0335	0.112		2
06148	Vanadium	7440-62-2	49.0		0.0246	0.112		2
06149	Zinc	7440-66-6	54.2		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0162	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	15.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302750
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.93		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	12.3		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 03:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/14/2011 04:13	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:04	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302750
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1404 SDG#: DE169-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:04	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:04	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	2	11158621201A	06/16/2011 02:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 02:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/13/2011 10:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 10:52	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:22	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1409 SDG#: DE169-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.1		7.0	8.4		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.9
06192	Methylene Chloride	75-09-2	2.0	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1409 SDG#: DE169-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		23.67
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.3	U	19.3	38.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1409 SDG#: DE169-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1409 SDG#: DE169-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.89
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	J	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

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-1409 SDG#: DE169-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.54	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,300		5.80	23.1		1
07914	Boron	7440-42-8	1.03	U	1.03	5.77		1
01650	Calcium	7440-70-2	6,670		7.07	23.1		1
01654	Iron	7439-89-6	27,400		5.44	23.1		1
01656	Lithium	7439-93-2	23.0		0.25	2.3		1
01657	Magnesium	7439-95-4	5,850		2.93	11.5		1

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SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
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Project Name: SSFL Area IV Collocated Soil Sampling

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-1409 SDG#: DE169-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	334		0.0900	0.577		1
10145	Phosphorus	7723-14-0	269		0.646	11.5		1
01662	Potassium	7440-09-7	3,010		20.8	57.7		1
01667	Sodium	7440-23-5	494		43.0	115		1
07968	Strontium	7440-24-6	36.3		0.0715	0.577		1
06969	Tin	7440-31-5	2.86	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,210		0.439	1.15		1
10146	Zirconium	7440-67-7	3.28	J	0.969	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0692	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.92		0.0923	0.462		2
06126	Barium	7440-39-3	87.4		0.125	0.462		2
06127	Beryllium	7440-41-7	0.678		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.160		0.0462	0.115		2
06131	Chromium	7440-47-3	22.2		0.138	0.462		2
06132	Cobalt	7440-48-4	8.38		0.0231	0.115		2
06133	Copper	7440-50-8	13.1		0.0762	0.462		2
06135	Lead	7439-92-1	8.34		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.271		0.0577	0.115		2
06139	Nickel	7440-02-0	17.3		0.115	0.462		2
06141	Selenium	7782-49-2	0.0602	J	0.0462	0.462		2
06142	Silver	7440-22-4	0.0336	J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.294		0.0346	0.115		2
06148	Vanadium	7440-62-2	45.8		0.0254	0.115		2
06149	Zinc	7440-66-6	64.5		0.646	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0037	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1409 SDG#: DE169-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.92	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-014-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 04:17	Holly Berry	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531BA	06/02/2011 15:08	Jason M Long	23.67
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115224558	06/01/2011 13:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115224558	06/01/2011 12:57	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 12:16	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011 03:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011 13:57	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34B	06/02/2011 11:56	Elizabeth J Marin	22.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 12:57	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 06:29	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570004A	06/08/2011 22:57	James H Place	1

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Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1409 SDG#: DE169-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 20:21	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111570004A	06/07/2011 11:55	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 11:44	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 20:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 22:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 03:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 04:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:18	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:16	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:16	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:45	Nelli S Markaryan	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302751
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1409 SDG#: DE169-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 20:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 03:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/13/2011 11:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 11:04	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:23	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302752
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB11 SDG#: DE169-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.9	J	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302752
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB11 SDG#: DE169-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	63		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302752
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB11 SDG#: DE169-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.070	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.053	U	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.082	J	0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.023	J	0.011	0.053		1

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Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302752
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB11 SDG#: DE169-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	2-Methylnaphthalene	91-57-6	0.024	J	0.011	0.053		1
10137	Naphthalene	91-20-3	0.14		0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	0.053	U	0.053	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1
Reporting limits were raised due to limited sample volume.								
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.51		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.082	U	0.082	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.51		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.51		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	51	U	51	210		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.051		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.051		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52		1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0052	U	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055	U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0044	U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.016	U	0.016	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060	U	0.0060	0.021		1
00177	Endrin	72-20-8	0.0084	U	0.0084	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052	U	0.0052	0.021		1
00177	Heptachlor	76-44-8	0.0084	J	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10		1
00177	Mirex	2385-85-5	0.087	U	0.087	0.26		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1

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Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302752
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB11 SDG#: DE169-03EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16 U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000062 J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302752
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
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-EB11 SDG#: DE169-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.4		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111531AA	06/02/2011 13:55	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111571AA	06/06/2011 10:52	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111531AA	06/02/2011 13:55	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111571AA	06/06/2011 10:52	Jason M Long	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11155WAA026	06/11/2011 11:52	Mark A Clark	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153WAB026	06/17/2011 01:38	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11155WAA026	06/04/2011 11:00	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11153WAB026	06/02/2011 14:15	Nicholas W Shroyer	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111540002A	06/08/2011 07:31	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111570020A	06/13/2011 20:46	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111570021A	06/08/2011 05:41	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111570021A	06/07/2011 03:30	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111570020A	06/07/2011 03:30	Sherry L Morrow	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111540002A	06/03/2011 19:00	Elaine F Stoltzfus	1
01743	Aluminum	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1

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Sample Description: **EB11-SA5DN-SB-053111 Water**
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302752
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB11 SDG#: DE169-03EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07058	Manganese	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111601848003	06/12/2011 07:10	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111601848003	06/10/2011 12:54	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06025	Arsenic	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06026	Barium	SW-846 6020	1	111536050006D	06/08/2011 00:34	David K Beck	1
06027	Beryllium	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06028	Cadmium	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06031	Chromium	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06032	Cobalt	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06033	Copper	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06035	Lead	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06038	Molybdenum	SW-846 6020	1	111536050006C	06/08/2011 00:34	David K Beck	1
06039	Nickel	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06041	Selenium	SW-846 6020	1	111536050006B	06/08/2011 00:34	David K Beck	1
06042	Silver	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06045	Thallium	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06048	Vanadium	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
06049	Zinc	SW-846 6020	1	111536050006A	06/08/2011 00:34	David K Beck	1
00259	Mercury	SW-846 7470A	1	111525713004	06/02/2011 23:42	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111601848003	06/09/2011 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111536050006	06/03/2011 09:32	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111525713004	06/01/2011 16:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11161196605B	06/15/2011 18:40	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 18:06	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11152281401B	06/01/2011 11:56	Elyse P Brunstetter	1
00200	18b pH by 9040B	SW-846 9040B	1	11152020001A	06/01/2011 19:00	Luz M Groff	1

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Analysis Report

Sample Description: TB-053111 Water
SSFL Area IV Collocated Soil Sampling
TB-053111

LLI Sample # WW 6302753
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-TB11 SDG#: DE169-04TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.9	J	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-053111 Water
SSFL Area IV Collocated Soil Sampling
TB-053111

LLI Sample # WW 6302753
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-TB11 SDG#: DE169-04TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111531AA	06/02/2011 14:17	Linda C Pape	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111571AA	06/06/2011 11:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111531AA	06/02/2011 14:17	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111571AA	06/06/2011 11:13	Jason M Long	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11157A20A	06/07/2011 15:05	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11157A20A	06/07/2011 15:05	Laura M Krieger	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302754
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9400 SDG#: DE169-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302754
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9400 SDG#: DE169-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.2		0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	8.8		0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	29		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	26		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	7.2		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	20		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	34		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.8		0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	70		0.73	1.8		1
10138	Fluorene	86-73-7	3.1		0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.3		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.89	J	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.90	J	0.73	1.8		1
10138	Naphthalene	91-20-3	1.3	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	37		0.73	1.8		1
10138	Pyrene	129-00-0	55		0.73	1.8		1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	130	U	130	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.097	J	0.083	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302754
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9400 SDG#: DE169-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: MCPA.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.0	J	0.88	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.68		0.073	0.38		1
01363	p,p-DDT	50-29-3	2.0		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.49	U	0.49	0.49		1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.073	U	0.073	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	4.7		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	4.4		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,300		5.50	21.9		1
07914	Boron	7440-42-8	0.974	U	0.974	5.47		1
01650	Calcium	7440-70-2	5,380		6.71	21.9		1
01654	Iron	7439-89-6	28,600		5.15	21.9		1
01656	Lithium	7439-93-2	22.3		0.24	2.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302754
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9400 SDG#: DE169-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	6,220		2.78	10.9		1
06958	Manganese	7439-96-5	467		0.0853	0.547		1
10145	Phosphorus	7723-14-0	464		0.613	10.9		1
01662	Potassium	7440-09-7	5,710		19.7	54.7		1
01667	Sodium	7440-23-5	78.0	J	40.8	109		1
07968	Strontium	7440-24-6	27.9		0.0678	0.547		1
06969	Tin	7440-31-5	2.72	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,220		0.416	1.09		1
10146	Zirconium	7440-67-7	2.83	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0644	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.17		0.0858	0.429		2
06126	Barium	7440-39-3	135		0.116	0.429		2
06127	Beryllium	7440-41-7	0.720		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.446		0.0429	0.107		2
06131	Chromium	7440-47-3	25.5		0.129	0.429		2
06132	Cobalt	7440-48-4	9.83		0.0215	0.107		2
06133	Copper	7440-50-8	16.0		0.0708	0.429		2
06135	Lead	7439-92-1	12.0		0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.568		0.0536	0.107		2
06139	Nickel	7440-02-0	20.7		0.107	0.429		2
06141	Selenium	7782-49-2	0.193	J	0.0429	0.429		2
06142	Silver	7440-22-4	0.0507	J	0.0129	0.107		2
06145	Thallium	7440-28-0	0.308		0.0322	0.107		2
06148	Vanadium	7440-62-2	45.2		0.0236	0.107		2
06149	Zinc	7440-66-6	76.4		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0319	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.33		0.0100	0.0100		1

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Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302754
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9400 SDG#: DE169-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011	03:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011	14:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011	06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011	08:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011	15:22	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011	20:14	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011	20:39	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011	08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011	15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011	04:41	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011	11:29	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011	02:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011	02:19	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011	02:19	David K Beck	2

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Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302754
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9400 SDG#: DE169-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:19	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:19	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 07:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 11:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302755
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9500 SDG#: DE169-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1

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Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302755
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9500 SDG#: DE169-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1

The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.87	J	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.46	J	0.36	1.8		1
10138	Anthracene	120-12-7	2.1		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	9.9		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	13		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	31		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	5.1		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	13		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	29		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.1		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	23		0.71	1.8		1
10138	Fluorene	86-73-7	1.1	J	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.2		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	1.0	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	10		0.71	1.8		1
10138	Pyrene	129-00-0	23		0.71	1.8		1

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	2.5	U	2.5	2.5		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	1,000		81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.32	U	0.32	0.32		1
10401	2,4,5-TP	93-72-1	0.26		0.080	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302755
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9500 SDG#: DE169-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-T and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	4.7		0.86	3.6		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36		1
01363	p,p-DDE	72-55-9	1.0		0.071	0.36		1
01363	p,p-DDT	50-29-3	3.6		0.35	1.8		5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	1.2		0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.25	U	0.25	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.4	U	5.4	18		5
10225	Aroclor 5442	12642-23-8	5.4	U	5.4	18		5
10225	Aroclor 5460	11126-42-4	12	J	5.4	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.1		5
10225	PCB-1260	11096-82-5	10		2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.18	20.6		1
07914	Boron	7440-42-8	0.917	U	0.917	5.15		1
01650	Calcium	7440-70-2	4,090		6.32	20.6		1
01654	Iron	7439-89-6	21,800		4.85	20.6		1
01656	Lithium	7439-93-2	17.3		0.23	2.1		1
01657	Magnesium	7439-95-4	4,580		2.62	10.3		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302755
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9500 SDG#: DE169-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	359		0.0804	0.515		1
10145	Phosphorus	7723-14-0	484		0.577	10.3		1
01662	Potassium	7440-09-7	4,590		18.6	51.5		1
01667	Sodium	7440-23-5	72.6	J	38.4	103		1
07968	Strontium	7440-24-6	21.9		0.0639	0.515		1
06969	Tin	7440-31-5	2.64	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,030		0.392	1.03		1
10146	Zirconium	7440-67-7	1.96	J	0.866	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.198	J	0.0630	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.23		0.0841	0.420		2
06126	Barium	7440-39-3	102		0.113	0.420		2
06127	Beryllium	7440-41-7	0.506		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.500		0.0420	0.105		2
06131	Chromium	7440-47-3	20.4		0.126	0.420		2
06132	Cobalt	7440-48-4	6.87		0.0210	0.105		2
06133	Copper	7440-50-8	13.0		0.0694	0.420		2
06135	Lead	7439-92-1	14.4		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.575		0.0525	0.105		2
06139	Nickel	7440-02-0	15.7		0.105	0.420		2
06141	Selenium	7782-49-2	0.139	J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0491	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.222		0.0315	0.105		2
06148	Vanadium	7440-62-2	35.6		0.0231	0.105		2
06149	Zinc	7440-66-6	79.3		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0626	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302755
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9500 SDG#: DE169-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	6.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011	04:10	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011	15:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011	06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011	08:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011	17:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011	21:09	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/22/2011	02:22	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011	20:58	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011	08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011	15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011	04:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011	11:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011	02:28	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011	02:28	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302755
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9500 SDG#: DE169-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:28	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:28	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:28	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:28	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 20:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 08:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 11:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-097-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302756
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9700 SDG#: DE169-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	371		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	33	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-097-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302756
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9700 SDG#: DE169-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	1.4	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	5.3		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	7.4		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	9.2		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	12		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	12		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.5		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.75	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	5.2		0.74	1.9		1
10138	Pyrene	129-00-0	12		0.74	1.9		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302756
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
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-9700 SDG#: DE169-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	58	J	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	5.5	U	5.5	5.5		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	780	U	780	780		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.19		1
10401	2,4,5-TP	93-72-1	0.22		0.084	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1

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LLI Sample # SW 6302756
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	3.5	J	2.4	5.6		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	1.4	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.40		0.074	0.38		1
01363	p,p-DDT	50-29-3	0.98		0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19		5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.6		5
10225	PCB-1260	11096-82-5	37		2.2	9.6		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	13		10
10199	EFH (C15-C20)	n.a.	9.3	J	4.5	13		10
10199	EFH (C21-C30)	n.a.	51		4.5	13		10
10199	EFH (C30 - C40)	n.a.	320		4.5	13		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	13		10

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SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302756
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-9700 SDG#: DE169-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.55	22.1		1
07914	Boron	7440-42-8	0.981	U	0.981	5.51		1
01650	Calcium	7440-70-2	5,200		6.76	22.1		1
01654	Iron	7439-89-6	29,000		5.19	22.1		1
01656	Lithium	7439-93-2	21.7		0.24	2.2		1
01657	Magnesium	7439-95-4	6,170		2.80	11.0		1
06958	Manganese	7439-96-5	490		0.0860	0.551		1
10145	Phosphorus	7723-14-0	421		0.618	11.0		1
01662	Potassium	7440-09-7	5,620		19.9	55.1		1
01667	Sodium	7440-23-5	68.9	J	41.1	110		1
07968	Strontium	7440-24-6	27.0		0.0684	0.551		1
06969	Tin	7440-31-5	2.73	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,270		0.419	1.10		1
10146	Zirconium	7440-67-7	3.05	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.239		0.0649	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.41		0.0865	0.433		2
06126	Barium	7440-39-3	136		0.117	0.433		2
06127	Beryllium	7440-41-7	0.731		0.0173	0.108		2
06128	Cadmium	7440-43-9	2.29		0.0433	0.108		2
06131	Chromium	7440-47-3	26.5		0.130	0.433		2
06132	Cobalt	7440-48-4	10.3		0.0216	0.108		2
06133	Copper	7440-50-8	15.8		0.0714	0.433		2
06135	Lead	7439-92-1	26.4		0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.587		0.0541	0.108		2
06139	Nickel	7440-02-0	20.9		0.108	0.433		2
06141	Selenium	7782-49-2	0.188	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0492	J	0.0130	0.108		2

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SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302756
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-9700 SDG#: DE169-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.309	0.0324	0.108		2
06148	Vanadium	7440-62-2	46.7	0.0238	0.108		2
06149	Zinc	7440-66-6	76.7	0.606	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0586 J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.45	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011 01:08	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011 04:35	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011 15:37	Joseph M Gambler	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 07:12	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 20:22	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 18:08	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 12:32	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011 21:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/15/2011 12:54	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111570003A	06/08/2011 08:55	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 17:14	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 20:18	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 22:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/13/2011 15:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 04:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:37	Joanne M Gates	1

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Analysis Report

Sample Description: SL-097-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302756
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9700 SDG#: DE169-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:31	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:31	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:31	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:31	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 21:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 04:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 08:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 11:55	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:24	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Analysis Report

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	187	U	187	375		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(g,h,i)perylene	191-24-2	130	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	35	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenz(a,h)anthracene	53-70-3	43	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	120	J	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	15		0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.82	J	0.37	1.9		1
10138	Anthracene	120-12-7	74		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	590		7.4	19		10
10138	Benzo(a)pyrene	50-32-8	480		7.4	19		10
10138	Benzo(b)fluoranthene	205-99-2	770		7.4	19		10
10138	Benzo(k)fluoranthene	207-08-9	330		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	540		3.7	19		10
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1,100		7.4	19		10
10138	Fluorene	86-73-7	9.8		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.99	J	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.96	J	0.74	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	320		0.74	1.9		1
10138	Pyrene	129-00-0	880		7.4	19		10
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	6.0	U	6.0	6.0		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.90	U	0.90	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.90	U	0.90	1.9		1
10401	MCPA	94-74-6	760	U	760	760		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.097	U	0.097	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA, 2,4,5-T and 2,4-DB.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.045	J	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.067	U	0.067	0.19		1
01363	Chlordane	57-74-9	0.90	U	0.90	3.8		1
01363	p,p-DDD	72-54-8	2.7	U	2.7	2.7		1
01363	p,p-DDE	72-55-9	3.1		0.074	0.38		1
01363	p,p-DDT	50-29-3	2.4		0.074	0.38		1
01363	Delta BHC	319-86-8	0.090	J	0.040	0.19		1
01363	Dieldrin	60-57-1	0.49		0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.45	U	0.45	0.45		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.27	U	0.27	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.15	J	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	19		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	19		5
10225	Aroclor 5460	11126-42-4	28		5.6	19		5
10225	PCB-1016	12674-11-2	1.9	U	1.9	9.6		5
10225	PCB-1221	11104-28-2	1.9	U	1.9	9.6		5
10225	PCB-1232	11141-16-5	1.9	U	1.9	9.6		5
10225	PCB-1242	53469-21-9	1.9	U	1.9	9.6		5
10225	PCB-1248	12672-29-6	1.9	U	1.9	9.6		5
10225	PCB-1254	11097-69-1	1.9	U	1.9	9.6		5
10225	PCB-1260	11096-82-5	11		2.2	9.6		5
10225	PCB-1262	37324-23-5	1.9	U	1.9	9.6		5
10225	PCB-1268	11100-14-4	1.9	U	1.9	9.6		5
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.7		5
10199	EFH (C15-C20)	n.a.	3.6	J	2.2	6.7		5
10199	EFH (C21-C30)	n.a.	40		2.2	6.7		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	140		2.2	6.7		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.7		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.60	22.2		1
07914	Boron	7440-42-8	0.990	U	0.990	5.56		1
01650	Calcium	7440-70-2	5,540		6.82	22.2		1
01654	Iron	7439-89-6	27,700		5.24	22.2		1
01656	Lithium	7439-93-2	21.0		0.24	2.2		1
01657	Magnesium	7439-95-4	5,950		2.83	11.1		1
06958	Manganese	7439-96-5	453		0.0868	0.556		1
10145	Phosphorus	7723-14-0	430		0.623	11.1		1
01662	Potassium	7440-09-7	5,430		20.0	55.6		1
01667	Sodium	7440-23-5	85.6	J	41.5	111		1
07968	Strontium	7440-24-6	27.7		0.0690	0.556		1
06969	Tin	7440-31-5	2.70	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,190		0.423	1.11		1
10146	Zirconium	7440-67-7	3.40	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.232		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0890	0.445		2
06126	Barium	7440-39-3	132		0.120	0.445		2
06127	Beryllium	7440-41-7	0.678		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.715		0.0445	0.111		2
06131	Chromium	7440-47-3	29.3		0.133	0.445		2
06132	Cobalt	7440-48-4	9.68		0.0222	0.111		2

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Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	17.3		0.0734	0.445		2
06135	Lead	7439-92-1	14.5		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.804		0.0556	0.111		2
06139	Nickel	7440-02-0	23.1		0.111	0.445		2
06141	Selenium	7782-49-2	0.172	J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0504	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.291		0.0334	0.111		2
06148	Vanadium	7440-62-2	43.5		0.0245	0.111		2
06149	Zinc	7440-66-6	97.0		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.737		0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	15.1		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011 01:25	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011 05:00	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011 16:09	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/20/2011 08:58	Joseph M Gambler	10
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 07:54	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 20:31	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 18:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011 21:38	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 21:35	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 16:00	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 20:33	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 22:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 12:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 04:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1

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Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302757
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9800 SDG#: DE169-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:34	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:34	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:34	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:34	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 21:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 04:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 09:07	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 12:01	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:26	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9900 SDG#: DE169-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	177	U	177	355		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9900 SDG#: DE169-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.49	J	0.35	1.7		1
10138	Anthracene	120-12-7	3.5		0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	35		0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	43		0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	82		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	12		0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	35		0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	51		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	4.6		0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	87		6.3	19		1
10138	Fluoranthene	206-44-0	45		0.70	1.7		1
10138	Fluorene	86-73-7	0.75	J	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	13		0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.80	J	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	9.3		0.70	1.7		1
10138	Pyrene	129-00-0	54		0.70	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1

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Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9900 SDG#: DE169-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	130	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	1.2	U	1.2	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.97	U	0.97	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	700		80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.28		0.079	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	

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SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
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-9900 SDG#: DE169-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	4.2		0.85	3.6		1
01363	p,p-DDD	72-54-8	0.33	U	0.33	0.36		1
01363	p,p-DDE	72-55-9	5.1		0.35	1.8		5
01363	p,p-DDT	50-29-3	2.8		0.070	0.36		1
01363	Delta BHC	319-86-8	0.053	U	0.053	0.18		1
01363	Dieldrin	60-57-1	0.82		0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.36		1
01363	Endrin Ketone	53494-70-5	0.11	U	0.11	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.19		0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	1.5	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C15-C20)	n.a.	3.0	J	2.1	6.3		5
10199	EFH (C21-C30)	n.a.	35		2.1	6.3		5

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Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9900 SDG#: DE169-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	130		2.1	6.3		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.3		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,500		5.30	21.1		1
07914	Boron	7440-42-8	0.937	U	0.937	5.27		1
01650	Calcium	7440-70-2	6,740		6.46	21.1		1
01654	Iron	7439-89-6	27,200		4.96	21.1		1
01656	Lithium	7439-93-2	21.6		0.23	2.1		1
01657	Magnesium	7439-95-4	6,000		2.68	10.5		1
06958	Manganese	7439-96-5	473		0.0822	0.527		1
10145	Phosphorus	7723-14-0	391		0.590	10.5		1
01662	Potassium	7440-09-7	4,480		19.0	52.7		1
01667	Sodium	7440-23-5	91.1	J	39.3	105		1
07968	Strontium	7440-24-6	32.1		0.0653	0.527		1
06969	Tin	7440-31-5	2.81	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,190		0.400	1.05		1
10146	Zirconium	7440-67-7	3.56	J	0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0614	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.87		0.0818	0.409		2
06126	Barium	7440-39-3	123		0.110	0.409		2
06127	Beryllium	7440-41-7	0.625		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.670		0.0409	0.102		2
06131	Chromium	7440-47-3	26.1		0.123	0.409		2
06132	Cobalt	7440-48-4	8.45		0.0205	0.102		2

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Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9900 SDG#: DE169-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	16.7		0.0675	0.409		2
06135	Lead	7439-92-1	12.9		0.0106	0.205		2
06138	Molybdenum	7439-98-7	0.771		0.0511	0.102		2
06139	Nickel	7440-02-0	21.2		0.102	0.409		2
06141	Selenium	7782-49-2	0.156	J	0.0409	0.409		2
06142	Silver	7440-22-4	0.0567	J	0.0123	0.102		2
06145	Thallium	7440-28-0	0.269		0.0307	0.102		2
06148	Vanadium	7440-62-2	40.2		0.0225	0.102		2
06149	Zinc	7440-66-6	90.9		0.573	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.80		0.0150	0.524		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9900 SDG#: DE169-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011 02:00	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011 05:25	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011 16:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 08:37	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570004A	06/08/2011 23:07	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 19:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011 22:20	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011 22:35	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 21:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111570004A	06/07/2011 11:55	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 16:25	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 20:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 23:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 10:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 04:58	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302758
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-9900 SDG#: DE169-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:37	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:37	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:37	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:37	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 14:02	Nelli S Markaryan	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 21:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 04:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 09:30	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 13:24	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:27	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302759
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1010 SDG#: DE169-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302759
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1010 SDG#: DE169-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.3	J	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.73	J	0.36	1.8		1
10138	Anthracene	120-12-7	2.9		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	12		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	18		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	8.5		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	19		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	13	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	7.9	J	6.4	19		1
10138	Chrysene	218-01-9	56		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	3.3		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		6.4	19		1
10138	Fluoranthene	206-44-0	28		0.71	1.8		1
10138	Fluorene	86-73-7	1.6	J	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.5		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.71	1.8		1
10138	Naphthalene	91-20-3	1.9		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	17		0.71	1.8		1
10138	Pyrene	129-00-0	41		0.71	1.8		1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	130	J	81	270		1
10401	MCPP (Mecoprop)	93-65-2	340	U	340	340		1
10401	2,4,5-T	93-76-5	0.27	U	0.27	0.27		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

When the concentration detected on the primary and confirmation

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302759
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1010 SDG#: DE169-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-T and 2,4-DB. Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.11	J	0.036	0.18		1
01363	Chlordane	57-74-9	5.7		0.85	3.6		1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36		1
01363	p,p-DDE	72-55-9	1.4		0.071	0.36		1
01363	p,p-DDT	50-29-3	2.6		0.071	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.28		0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.46	U	0.46	0.46		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	18		5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	18		5
10225	Aroclor 5460	11126-42-4	5.3	U	5.3	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.1		5
10225	PCB-1260	11096-82-5	4.8	J	2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302759
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1010 SDG#: DE169-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		5.32	21.2		1
07914	Boron	7440-42-8	0.941	U	0.941	5.29		1
01650	Calcium	7440-70-2	5,420		6.48	21.2		1
01654	Iron	7439-89-6	29,400		9.96	42.3		2
01656	Lithium	7439-93-2	17.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,500		2.69	10.6		1
06958	Manganese	7439-96-5	370		0.0825	0.529		1
10145	Phosphorus	7723-14-0	635		0.592	10.6		1
01662	Potassium	7440-09-7	4,840		19.0	52.9		1
01667	Sodium	7440-23-5	96.9	J	39.5	106		1
07968	Strontium	7440-24-6	27.5		0.0656	0.529		1
06969	Tin	7440-31-5	2.87	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,090		0.402	1.06		1
10146	Zirconium	7440-67-7	2.03	J	0.889	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.440		0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.28		0.0838	0.419		2
06126	Barium	7440-39-3	115		0.113	0.419		2
06127	Beryllium	7440-41-7	0.528		0.0168	0.105		2
06128	Cadmium	7440-43-9	1.03		0.0419	0.105		2
06131	Chromium	7440-47-3	23.4		0.126	0.419		2
06132	Cobalt	7440-48-4	9.76		0.0209	0.105		2
06133	Copper	7440-50-8	15.1		0.0691	0.419		2
06135	Lead	7439-92-1	20.1		0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.675		0.0524	0.105		2
06139	Nickel	7440-02-0	19.9		0.105	0.419		2
06141	Selenium	7782-49-2	0.250	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0965	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.220		0.0314	0.105		2
06148	Vanadium	7440-62-2	50.5		0.0230	0.105		2
06149	Zinc	7440-66-6	93.3		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0090	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.98	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302759
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1010 SDG#: DE169-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/11/2011	05:50	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/18/2011	17:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011	06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011	08:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011	19:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011	23:04	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011	22:12	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011	08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011	15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011	05:02	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/14/2011	05:06	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011	11:50	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302759
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1010 SDG#: DE169-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:40	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:40	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:40	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:40	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 22:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 09:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 13:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039401B	06/06/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1020 SDG#: DE169-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	183	U	183	365		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1020 SDG#: DE169-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2.5		0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.42	J	0.36	1.8		1
10138	Anthracene	120-12-7	11		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	87		0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	70		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	120		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	20		0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	50		0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	76		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	7.7		0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	280		6.6	20		1
10138	Fluoranthene	206-44-0	190		0.73	1.8		1
10138	Fluorene	86-73-7	1.5	J	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	22		0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.88	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	7.8	J	6.6	20		1
10138	Phenanthrene	85-01-8	52		0.73	1.8		1
10138	Pyrene	129-00-0	140		0.73	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	51	J	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1

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Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1020 SDG#: DE169-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	1.0	U	1.0	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.8		1
10401	MCPA	94-74-6	840	U	840	840		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.27		0.082	0.18		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1

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Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1020 SDG#: DE169-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	3.0	J	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.24	U	0.24	0.37		1
01363	p,p-DDE	72-55-9	2.5		0.072	0.37		1
01363	p,p-DDT	50-29-3	2.1		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.46		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.15	U	0.15	0.37		1
01363	Endrin	72-20-8	0.43	U	0.43	0.43		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.099	U	0.099	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	5.5	U	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	4.8	J	2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

Reporting limits were raised due to interference from the sample matrix.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	U	0.88	2.6		2
10199	EFH (C15-C20)	n.a.	4.6		0.88	2.6		2
10199	EFH (C21-C30)	n.a.	26		0.88	2.6		2
10199	EFH (C30 - C40)	n.a.	78		0.88	2.6		2
10199	EFH (C8-C11)	n.a.	0.88	U	0.88	2.6		2

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Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1020 SDG#: DE169-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.37		1
01650	Calcium	7440-70-2	5,010		6.59	21.5		1
01654	Iron	7439-89-6	26,600		5.06	21.5		1
01656	Lithium	7439-93-2	22.1		0.24	2.1		1
01657	Magnesium	7439-95-4	5,530		2.73	10.7		1
06958	Manganese	7439-96-5	373		0.0838	0.537		1
10145	Phosphorus	7723-14-0	361		0.602	10.7		1
01662	Potassium	7440-09-7	4,010		19.3	53.7		1
01667	Sodium	7440-23-5	94.0	J	40.1	107		1
07968	Strontium	7440-24-6	26.4		0.0666	0.537		1
06969	Tin	7440-31-5	2.71	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,100		0.408	1.07		1
10146	Zirconium	7440-67-7	2.63	J	0.903	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.212		0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.45		0.0843	0.422		2
06126	Barium	7440-39-3	118		0.114	0.422		2
06127	Beryllium	7440-41-7	0.598		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.491		0.0422	0.105		2
06131	Chromium	7440-47-3	25.2		0.127	0.422		2
06132	Cobalt	7440-48-4	8.47		0.0211	0.105		2
06133	Copper	7440-50-8	15.2		0.0696	0.422		2
06135	Lead	7439-92-1	15.5		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.606		0.0527	0.105		2
06139	Nickel	7440-02-0	19.2		0.105	0.422		2
06141	Selenium	7782-49-2	0.155	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0602	J	0.0127	0.105		2

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Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1020 SDG#: DE169-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.263		0.0316	0.105		2
06148	Vanadium	7440-62-2	40.5		0.0232	0.105		2
06149	Zinc	7440-66-6	78.7		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.695		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011	02:17	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/12/2011	06:48	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011	12:26	Joseph M Gambler	1

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Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

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-1020 SDG#: DE169-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 09:19	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570004A	06/08/2011 23:16	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 19:59	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011 23:18	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 22:30	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111570004A	06/07/2011 11:55	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 15:10	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 21:03	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 23:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 10:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:10	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:43	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2

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Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302760
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1020 SDG#: DE169-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:43	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:43	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:43	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 22:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11158621201A	06/08/2011 22:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 10:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 13:53	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:28	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302761
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1030 SDG#: DE169-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182	U	182	365		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	41	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302761
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1030 SDG#: DE169-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was detected at a higher concentration in the re-extraction of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	4.2	J	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	24		3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	25		3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	42		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	11		3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	18		3.6	9.0		5
10138	Butylbenzylphthalate	85-68-7	32	U	32	97		5
10138	Di-n-butylphthalate	84-74-2	32	U	32	97		5
10138	Chrysene	218-01-9	33		1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	J	3.6	9.0		5
10138	Diethylphthalate	84-66-2	32	U	32	97		5
10138	Dimethylphthalate	131-11-3	32	U	32	97		5
10138	Fluoranthene	206-44-0	42		3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	10		3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	4.4	J	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Di-n-octylphthalate	117-84-0	32	U	32	97		5
10138	Phenanthrene	85-01-8	13		3.6	9.0		5
10138	Pyrene	129-00-0	36		3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1

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Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302761
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

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Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1030 SDG#: DE169-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	J	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	1,000		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.30		0.082	0.19		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1

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Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302761
LLI Group # 1249333
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Project Name: SSFL Area IV Collocated Soil Sampling

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-1030 SDG#: DE169-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	3.2	U	3.2	3.7		1
01363	p,p-DDD	72-54-8	0.51	U	0.51	0.51		1
01363	p,p-DDE	72-55-9	14		0.36	1.9		5
01363	p,p-DDT	50-29-3	5.0		0.36	1.9		5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.63		0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.28	U	0.28	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.072	U	0.072	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.18		1
01363	Methoxychlor	72-43-5	1.1	U	1.1	1.8		1
01363	Mirex	2385-85-5	0.072	U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	36		10
10225	Aroclor 5442	12642-23-8	11	U	11	36		10
10225	Aroclor 5460	11126-42-4	11	U	11	36		10
10225	PCB-1016	12674-11-2	3.6	U	3.6	19		10
10225	PCB-1221	11104-28-2	3.6	U	3.6	19		10
10225	PCB-1232	11141-16-5	3.6	U	3.6	19		10
10225	PCB-1242	53469-21-9	3.6	U	3.6	19		10
10225	PCB-1248	12672-29-6	3.6	U	3.6	19		10
10225	PCB-1254	11097-69-1	3.6	U	3.6	19		10
10225	PCB-1260	11096-82-5	5.2	J	4.3	19		10
10225	PCB-1262	37324-23-5	3.6	U	3.6	19		10
10225	PCB-1268	11100-14-4	3.6	U	3.6	19		10

Reporting limits were raised due to interference from the sample matrix.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.87	U	0.87	2.6		2
10199	EFH (C15-C20)	n.a.	3.5		0.87	2.6		2
10199	EFH (C21-C30)	n.a.	17		0.87	2.6		2
10199	EFH (C30 - C40)	n.a.	95		0.87	2.6		2
10199	EFH (C8-C11)	n.a.	0.87	U	0.87	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1

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SL-103-SA5DN-SS-0.0-0.5

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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-1030 SDG#: DE169-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.50	21.9		1
07914	Boron	7440-42-8	0.974	U	0.974	5.47		1
01650	Calcium	7440-70-2	5,260		6.71	21.9		1
01654	Iron	7439-89-6	26,600		5.15	21.9		1
01656	Lithium	7439-93-2	19.9		0.24	2.2		1
01657	Magnesium	7439-95-4	6,180		2.78	10.9		1
06958	Manganese	7439-96-5	391		0.0853	0.547		1
10145	Phosphorus	7723-14-0	426		0.613	10.9		1
01662	Potassium	7440-09-7	4,340		19.7	54.7		1
01667	Sodium	7440-23-5	138		40.8	109		1
07968	Strontium	7440-24-6	30.5		0.0678	0.547		1
06969	Tin	7440-31-5	2.74	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,190		0.416	1.09		1
10146	Zirconium	7440-67-7	4.15	J	0.919	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.228		0.0650	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.59		0.0867	0.433		2
06126	Barium	7440-39-3	130		0.117	0.433		2
06127	Beryllium	7440-41-7	0.646		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.562		0.0433	0.108		2
06131	Chromium	7440-47-3	25.0		0.130	0.433		2
06132	Cobalt	7440-48-4	9.11		0.0217	0.108		2
06133	Copper	7440-50-8	17.0		0.0715	0.433		2
06135	Lead	7439-92-1	12.2		0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.918		0.0542	0.108		2
06139	Nickel	7440-02-0	21.5		0.108	0.433		2
06141	Selenium	7782-49-2	0.183	J	0.0433	0.433		2
06142	Silver	7440-22-4	0.0570	J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.275		0.0325	0.108		2

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Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302761
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1030 SDG#: DE169-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	42.4		0.0238	0.108		2
06149	Zinc	7440-66-6	82.8		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	8.10		0.0601	2.10		20
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	5.4		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011 02:35	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/12/2011 07:13	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011 13:01	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1

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Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302761
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1030 SDG#: DE169-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 10:01	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570004A	06/08/2011 23:26	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 20:27	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/17/2011 23:32	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 01:25	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 22:49	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111570004A	06/07/2011 11:55	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 15:35	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 21:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 23:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 11:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:21	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 11:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:46	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2

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Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302761
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1030 SDG#: DE169-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:46	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:46	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:46	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 14:03	Nelli S Markaryan	20
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201A	06/08/2011 22:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201A	06/16/2011 04:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202A	06/11/2011 10:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 13:59	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:29	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201A	06/07/2011 06:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201A	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202A	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1040 SDG#: DE169-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	356		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	40	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	48	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	64	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	32	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	30	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	56	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	350		1
04688	Fluoranthene	206-44-0	58	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	30	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1040 SDG#: DE169-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	64	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	2.5	J	1.8	8.8		5
10138	Butylbenzylphthalate	85-68-7	32	U	32	95		5
10138	Di-n-butylphthalate	84-74-2	32	U	32	95		5
10138	Dibenz(a,h)anthracene	53-70-3	5.1	J	3.5	8.8		5
10138	Diethylphthalate	84-66-2	32	U	32	95		5
10138	Dimethylphthalate	131-11-3	32	U	32	95		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Di-n-octylphthalate	117-84-0	32	U	32	95		5
10138	Phenanthrene	85-01-8	8.6	J	3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1

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Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1040 SDG#: DE169-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	0.75	U	0.75	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	1.9	U	1.9	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	530		81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.17	J	0.080	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these

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Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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-1040 SDG#: DE169-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.096	U	0.096	0.18		1
01363	Chlordane	57-74-9	0.85	U	0.85	3.6		1
01363	p,p-DDD	72-54-8	2.2	U	2.2	2.2		1
01363	p,p-DDE	72-55-9	15		1.4	7.3		20
01363	p,p-DDT	50-29-3	3.7	J	1.4	7.3		20
01363	Delta BHC	319-86-8	0.087	J	0.038	0.18		1
01363	Dieldrin	60-57-1	1.4	U	1.4	1.4		1
01363	Endosulfan I	959-98-8	0.096	U	0.096	0.18		1
01363	Endosulfan II	33213-65-9	0.22	U	0.22	0.36		1
01363	Endosulfan Sulfate	1031-07-8	1.4	U	1.4	7.3		20
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	1.4	U	1.4	7.3		20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.3		20
01363	Heptachlor	76-44-8	0.096	U	0.096	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18		1
01363	Methoxychlor	72-43-5	7.3	U	7.3	35		20
01363	Mirex	2385-85-5	5.7	U	5.7	7.3		20
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	35		10
10225	Aroclor 5442	12642-23-8	11	U	11	35		10
10225	Aroclor 5460	11126-42-4	11	U	11	35		10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18		10
10225	PCB-1221	11104-28-2	3.5	U	3.5	18		10
10225	PCB-1232	11141-16-5	3.5	U	3.5	18		10
10225	PCB-1242	53469-21-9	3.5	U	3.5	18		10
10225	PCB-1248	12672-29-6	3.5	U	3.5	18		10
10225	PCB-1254	11097-69-1	3.5	U	3.5	18		10
10225	PCB-1260	11096-82-5	7.1	J	4.2	18		10

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Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1040 SDG#: DE169-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	3.5	U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18		10
	Reporting limits were raised due to interference from the sample matrix.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.2	U	4.2	13		10
10199	EFH (C15-C20)	n.a.	12	J	4.2	13		10
10199	EFH (C21-C30)	n.a.	150		4.2	13		10
10199	EFH (C30 - C40)	n.a.	330		4.2	13		10
10199	EFH (C8-C11)	n.a.	4.2	U	4.2	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.26	20.9		1
07914	Boron	7440-42-8	0.931	U	0.931	5.23		1
01650	Calcium	7440-70-2	4,790		6.41	20.9		1
01654	Iron	7439-89-6	24,800		4.93	20.9		1
01656	Lithium	7439-93-2	19.8		0.23	2.1		1
01657	Magnesium	7439-95-4	5,200		2.66	10.5		1
06958	Manganese	7439-96-5	374		0.0816	0.523		1
10145	Phosphorus	7723-14-0	405		0.586	10.5		1
01662	Potassium	7440-09-7	3,650		18.8	52.3		1
01667	Sodium	7440-23-5	96.2	J	39.0	105		1
07968	Strontium	7440-24-6	28.5		0.0649	0.523		1
06969	Tin	7440-31-5	2.68	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,120		0.398	1.05		1
10146	Zirconium	7440-67-7	2.35	J	0.879	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.196	J	0.0622	0.207		2

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Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1040 SDG#: DE169-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.62		0.0829	0.414		2
06126	Barium	7440-39-3	120		0.112	0.414		2
06127	Beryllium	7440-41-7	0.591		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.351		0.0414	0.104		2
06131	Chromium	7440-47-3	22.7		0.124	0.414		2
06132	Cobalt	7440-48-4	7.98		0.0207	0.104		2
06133	Copper	7440-50-8	14.5		0.0684	0.414		2
06135	Lead	7439-92-1	11.3		0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.635		0.0518	0.104		2
06139	Nickel	7440-02-0	18.8		0.104	0.414		2
06141	Selenium	7782-49-2	0.165	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0659	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.251		0.0311	0.104		2
06148	Vanadium	7440-62-2	39.7		0.0228	0.104		2
06149	Zinc	7440-66-6	74.6		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.320		0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.99	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
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-1040 SDG#: DE169-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011 02:52	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/12/2011 07:38	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011 13:32	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 10:44	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 20:41	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 20:54	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 01:39	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 02:07	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 23:07	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 18:29	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 22:02	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/06/2011 23:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 13:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1

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Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

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-1040 SDG#: DE169-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:49	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:49	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:49	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:49	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/08/2011 22:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201B	06/16/2011 05:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 11:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 14:10	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:30	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201B	06/07/2011 06:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302762
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1040 SDG#: DE169-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	183	U	183	365		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Chrysene	218-01-9	21	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	18	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	7.1	J	3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	7.5	J	3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	9.7		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	5.5	J	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	8.7	J	3.6	9.0		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	98		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	98		5
10138	Chrysene	218-01-9	14		1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	96	J	33	98		5
10138	Fluoranthene	206-44-0	12		3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.3	J	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98		5
10138	Phenanthrene	85-01-8	4.3	J	3.6	9.0		5
10138	Pyrene	129-00-0	12		3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1

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Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	53	J	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.68	U	0.68	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.5	J	0.87	1.9		1
10401	MCPA	94-74-6	1,300		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.18	J	0.082	0.19		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.0	J	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.21	U	0.21	0.37		1
01363	p,p-DDE	72-55-9	3.0		0.072	0.37		1
01363	p,p-DDT	50-29-3	1.8		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.072	U	0.072	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.23	U	0.23	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	6.6	J	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	8.2	J	2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5

Reporting limits were raised due to interference from the sample matrix.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.8	U	8.8	26		20
10199	EFH (C15-C20)	n.a.	23	J	8.8	26		20
10199	EFH (C21-C30)	n.a.	280		8.8	26		20
10199	EFH (C30 - C40)	n.a.	530		8.8	26		20
10199	EFH (C8-C11)	n.a.	8.8	U	8.8	26		20

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.51	21.9		1
07914	Boron	7440-42-8	0.975	U	0.975	5.48		1
01650	Calcium	7440-70-2	5,180		6.71	21.9		1
01654	Iron	7439-89-6	28,300		5.16	21.9		1
01656	Lithium	7439-93-2	21.8		0.24	2.2		1
01657	Magnesium	7439-95-4	6,130		2.78	11.0		1
06958	Manganese	7439-96-5	433		0.0854	0.548		1
10145	Phosphorus	7723-14-0	405		0.613	11.0		1
01662	Potassium	7440-09-7	5,270		19.7	54.8		1
01667	Sodium	7440-23-5	95.8	J	40.9	110		1
07968	Strontium	7440-24-6	28.5		0.0679	0.548		1
06969	Tin	7440-31-5	2.70	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,170		0.416	1.10		1
10146	Zirconium	7440-67-7	3.42	J	0.920	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0638	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.21		0.0851	0.425		2
06126	Barium	7440-39-3	134		0.115	0.425		2
06127	Beryllium	7440-41-7	0.663		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.429		0.0425	0.106		2
06131	Chromium	7440-47-3	25.2		0.128	0.425		2
06132	Cobalt	7440-48-4	9.79		0.0213	0.106		2
06133	Copper	7440-50-8	16.1		0.0702	0.425		2
06135	Lead	7439-92-1	12.1		0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.624		0.0532	0.106		2
06139	Nickel	7440-02-0	20.7		0.106	0.425		2
06141	Selenium	7782-49-2	0.184	J	0.0425	0.425		2
06142	Silver	7440-22-4	0.0487	J	0.0128	0.106		2

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Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.303		0.0319	0.106		2
06148	Vanadium	7440-62-2	44.0		0.0234	0.106		2
06149	Zinc	7440-66-6	77.6		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.233		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011	03:10	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/12/2011	08:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011	08:35	Joseph M Gambler	5

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Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 11:26	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 20:50	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 21:22	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 02:21	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 23:26	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 18:54	Heather E Williams	20
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 22:17	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/07/2011 00:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 07:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:07	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:52	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2

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Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302763
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1100 SDG#: DE169-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:52	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:52	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:52	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 12:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/08/2011 23:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	2	11158621201B	06/16/2011 05:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 12:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 14:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:31	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11158621201B	06/07/2011 06:45	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302764
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1110 SDG#: DE169-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	371		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-111-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302764
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1110 SDG#: DE169-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.2		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.2		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.2		5
10138	Benzo(a)anthracene	56-55-3	7.1	J	3.7	9.2		5
10138	Benzo(a)pyrene	50-32-8	8.3	J	3.7	9.2		5
10138	Benzo(b)fluoranthene	205-99-2	13		3.7	9.2		5
10138	Benzo(g,h,i)perylene	191-24-2	5.9	J	3.7	9.2		5
10138	Benzo(k)fluoranthene	207-08-9	6.8	J	3.7	9.2		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	99		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	99		5
10138	Chrysene	218-01-9	11		1.8	9.2		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.2		5
10138	Diethylphthalate	84-66-2	33	U	33	99		5
10138	Dimethylphthalate	131-11-3	33	U	33	99		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	U	33	99		5
10138	Fluoranthene	206-44-0	11		3.7	9.2		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.2		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.6	J	3.7	9.2		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.2		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.2		5
10138	Naphthalene	91-20-3	3.7	U	3.7	9.2		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.2		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	99		5
10138	Phenanthrene	85-01-8	3.7	U	3.7	9.2		5
10138	Pyrene	129-00-0	10		3.7	9.2		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	J	42	130	10000000	1

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Sample Description: SL-111-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302764
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1110 SDG#: DE169-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	630		85	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	3.7	J	2.3	5.6		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	2.5	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.35	J	0.073	0.38		1
01363	p,p-DDE	72-55-9	2.6		0.073	0.38		1
01363	p,p-DDT	50-29-3	1.7		0.073	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.29	J	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.11	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.10	J	0.038	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.10	U	0.10	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.89	U	0.89	2.7		2
10199	EFH (C15-C20)	n.a.	2.5	J	0.89	2.7		2
10199	EFH (C21-C30)	n.a.	9.5		0.89	2.7		2
10199	EFH (C30 - C40)	n.a.	36		0.89	2.7		2
10199	EFH (C8-C11)	n.a.	0.89	U	0.89	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1

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-1110 SDG#: DE169-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		5.60	22.2		1
07914	Boron	7440-42-8	0.990	U	0.990	5.56		1
01650	Calcium	7440-70-2	4,480		6.82	22.2		1
01654	Iron	7439-89-6	25,700		5.24	22.2		1
01656	Lithium	7439-93-2	20.6		0.24	2.2		1
01657	Magnesium	7439-95-4	5,430		2.83	11.1		1
06958	Manganese	7439-96-5	409		0.0868	0.556		1
10145	Phosphorus	7723-14-0	389		0.623	11.1		1
01662	Potassium	7440-09-7	4,660		20.0	55.6		1
01667	Sodium	7440-23-5	77.8	J	41.5	111		1
07968	Strontium	7440-24-6	26.1		0.0690	0.556		1
06969	Tin	7440-31-5	2.67	J	1.11	11.1		1
06970	Titanium	7440-32-6	1,170		0.423	1.11		1
10146	Zirconium	7440-67-7	2.95	J	0.934	5.56		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0661	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.15		0.0881	0.441		2
06126	Barium	7440-39-3	125		0.119	0.441		2
06127	Beryllium	7440-41-7	0.641		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.406		0.0441	0.110		2
06131	Chromium	7440-47-3	24.4		0.132	0.441		2
06132	Cobalt	7440-48-4	9.12		0.0220	0.110		2
06133	Copper	7440-50-8	14.6		0.0727	0.441		2
06135	Lead	7439-92-1	11.5		0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.641		0.0551	0.110		2
06139	Nickel	7440-02-0	18.8		0.110	0.441		2
06141	Selenium	7782-49-2	0.166	J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0509	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.285		0.0330	0.110		2

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SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302764
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-1110 SDG#: DE169-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	42.5		0.0242	0.110		2
06149	Zinc	7440-66-6	74.4		0.617	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.460		0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.5		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.81	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.44		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011 03:27	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/12/2011 08:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011 09:06	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1

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-1110 SDG#: DE169-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 12:09	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 21:00	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 21:50	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 12:50	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 02:35	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/09/2011 23:44	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 14:20	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 22:32	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/07/2011 00:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 06:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:34	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:18	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302764
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1110 SDG#: DE169-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 02:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 02:55	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 02:55	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 02:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 13:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/16/2011 06:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11158621201B	06/16/2011 06:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 13:02	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 14:39	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201A	06/06/2011 09:33	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201A	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182	U	182	364		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recovery of bis(2-ethylhexyl)phthalate was above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.0		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.0		5
10138	Anthracene	120-12-7	1.8	U	1.8	9.0		5
10138	Benzo(a)anthracene	56-55-3	7.8	J	3.6	9.0		5
10138	Benzo(a)pyrene	50-32-8	9.1		3.6	9.0		5
10138	Benzo(b)fluoranthene	205-99-2	15		3.6	9.0		5
10138	Benzo(g,h,i)perylene	191-24-2	7.4	J	3.6	9.0		5
10138	Benzo(k)fluoranthene	207-08-9	8.6	J	3.6	9.0		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	98		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	98		5
10138	Chrysene	218-01-9	20		1.8	9.0		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.0		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Fluoranthene	206-44-0	15		3.6	9.0		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.0		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.3	J	3.6	9.0		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.0		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.0		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.0		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.0		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98		5
10138	Phenanthrene	85-01-8	5.1	J	3.6	9.0		5
10138	Pyrene	129-00-0	14		3.6	9.0		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	0.94	U	0.94	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	880	U	880	880		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.19		1
10401	2,4,5-TP	93-72-1	0.14	J	0.082	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1

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Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.2	J	0.87	3.7		1
01363	p,p-DDD	72-54-8	0.81	U	0.81	0.81		1
01363	p,p-DDE	72-55-9	5.7		0.36	1.9		5
01363	p,p-DDT	50-29-3	2.9		0.072	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.36	U	0.36	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.17	U	0.17	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.31	U	0.31	0.31		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	4.3		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	5.6		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.87	U	0.87	2.6		2
10199	EFH (C15-C20)	n.a.	4.5		0.87	2.6		2
10199	EFH (C21-C30)	n.a.	29		0.87	2.6		2
10199	EFH (C30 - C40)	n.a.	76		0.87	2.6		2
10199	EFH (C8-C11)	n.a.	0.87	U	0.87	2.6		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		5.38	21.4		1
07914	Boron	7440-42-8	0.952	U	0.952	5.35		1
01650	Calcium	7440-70-2	4,590		6.55	21.4		1
01654	Iron	7439-89-6	41,100		10.1	42.8		2
01656	Lithium	7439-93-2	20.1		0.24	2.1		1
01657	Magnesium	7439-95-4	5,550		2.72	10.7		1
06958	Manganese	7439-96-5	401		0.0834	0.535		1
10145	Phosphorus	7723-14-0	424		0.599	10.7		1
01662	Potassium	7440-09-7	4,430		19.2	53.5		1
01667	Sodium	7440-23-5	81.1	J	39.9	107		1
07968	Strontium	7440-24-6	27.0		0.0663	0.535		1
06969	Tin	7440-31-5	2.62	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,010		0.406	1.07		1
10146	Zirconium	7440-67-7	1.96	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0641	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.59		0.0855	0.428		2
06126	Barium	7440-39-3	122		0.115	0.428		2
06127	Beryllium	7440-41-7	0.606		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.418		0.0428	0.107		2
06131	Chromium	7440-47-3	24.1		0.128	0.428		2
06132	Cobalt	7440-48-4	8.71		0.0214	0.107		2
06133	Copper	7440-50-8	15.0		0.0706	0.428		2
06135	Lead	7439-92-1	12.0		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.653		0.0535	0.107		2
06139	Nickel	7440-02-0	18.7		0.107	0.428		2
06141	Selenium	7782-49-2	0.167	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0409	J	0.0128	0.107		2

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Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.263		0.0321	0.107		2
06148	Vanadium	7440-62-2	41.1		0.0235	0.107		2
06149	Zinc	7440-66-6	71.7		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.325		0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011	03:45	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/14/2011	07:59	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011	09:38	Joseph M Gambler	5

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Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 12:51	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 22:00	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 23:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 03:02	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 03:16	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/10/2011 00:03	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 14:45	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 22:47	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/07/2011 01:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 12:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:38	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/14/2011 05:42	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:22	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 03:04	David K Beck	2

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Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302765
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1120 SDG#: DE169-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 03:04	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 03:04	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 03:04	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 13:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/16/2011 06:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11158621201B	06/16/2011 06:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 13:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 15:10	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201B	06/06/2011 09:36	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201B	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302766
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

113-0 SDG#: DE169-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	183	U	183	365		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)anthracene	56-55-3	200		18	180		1
04688	Benzo(a)pyrene	50-32-8	170	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	230		18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	93	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	130	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	190		18	180		1
04688	Dibenz(a,h)anthracene	53-70-3	24	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	50	J	18	360		1
04688	Fluoranthene	206-44-0	280		18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	85	J	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1

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Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302766
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

113-0 SDG#: DE169-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	68	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	300		18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	3.0	J	1.8	9.1		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	98		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	98		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1

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Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302766
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

113-0 SDG#: DE169-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	1.0	U	1.0	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	910		83	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.25		0.082	0.19		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

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SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302766
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113-0 SDG#: DE169-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	3.7	J	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.34	U	0.34	0.37		1
01363	p,p-DDE	72-55-9	7.0		0.36	1.9		5
01363	p,p-DDT	50-29-3	3.5		0.36	1.9		5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.53	U	0.53	0.53		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37		1
01363	Endrin	72-20-8	0.072	U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.37		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	22		5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.3		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.3		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.3		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.3		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.3		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.3		5
10225	PCB-1260	11096-82-5	19		2.1	9.3		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.3		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.3		5
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302766
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

113-0 SDG#: DE169-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.4	U	4.4	13		10
10199	EFH (C15-C20)	n.a.	6.0	J	4.4	13		10
10199	EFH (C21-C30)	n.a.	43		4.4	13		10
10199	EFH (C30 - C40)	n.a.	260		4.4	13		10
10199	EFH (C8-C11)	n.a.	4.4	U	4.4	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,600		5.46	21.7		1
07914	Boron	7440-42-8	0.966	U	0.966	5.43		1
01650	Calcium	7440-70-2	5,180		6.65	21.7		1
01654	Iron	7439-89-6	28,200		5.11	21.7		1
01656	Lithium	7439-93-2	21.2		0.24	2.2		1
01657	Magnesium	7439-95-4	6,050		2.76	10.9		1
06958	Manganese	7439-96-5	450		0.0847	0.543		1
10145	Phosphorus	7723-14-0	396		0.608	10.9		1
01662	Potassium	7440-09-7	4,820		19.5	54.3		1
01667	Sodium	7440-23-5	80.5	J	40.5	109		1
07968	Strontium	7440-24-6	29.3		0.0673	0.543		1
06969	Tin	7440-31-5	2.71	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,160		0.413	1.09		1
10146	Zirconium	7440-67-7	3.29	J	0.912	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.413		0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.73		0.0843	0.422		2
06126	Barium	7440-39-3	135		0.114	0.422		2
06127	Beryllium	7440-41-7	0.685		0.0169	0.105		2

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SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302766
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

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14420 Albemarle Point Place
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113-0 SDG#: DE169-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.649		0.0422	0.105		2
06131	Chromium	7440-47-3	25.8		0.127	0.422		2
06132	Cobalt	7440-48-4	10.1		0.0211	0.105		2
06133	Copper	7440-50-8	17.9		0.0696	0.422		2
06135	Lead	7439-92-1	16.5		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.831		0.0527	0.105		2
06139	Nickel	7440-02-0	22.0		0.105	0.422		2
06141	Selenium	7782-49-2	0.186	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0625	J	0.0127	0.105		2
06145	Thallium	7440-28-0	0.307		0.0316	0.105		2
06148	Vanadium	7440-62-2	45.2		0.0232	0.105		2
06149	Zinc	7440-66-6	93.2		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	53.8		0.313	10.9		100
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.52		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-113-SA5DN-SS-0.0-0.5

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113-0 SDG#: DE169-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/22/2011 04:02	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/14/2011 08:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011 10:08	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 14:58	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 22:10	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/09/2011 23:40	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 03:30	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 03:57	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/10/2011 01:35	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 17:39	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 23:02	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/07/2011 01:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 08:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302766
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

113-0 SDG#: DE169-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:27	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 03:07	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 03:07	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 03:07	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 03:07	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 14:05	Nelli S Markaryan	100
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/16/2011 07:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11158621201B	06/16/2011 07:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 13:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 15:21	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201B	06/06/2011 09:40	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201B	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302767
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

114-0 SDG#: DE169-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	357		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzo(a)pyrene	50-32-8	28	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	59	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302767
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

114-0 SDG#: DE169-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.9		5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.9		5
10138	Benzo(b)fluoranthene	205-99-2	7.8	J	3.5	8.9		5
10138	Benzo(g,h,i)perylene	191-24-2	5.4	J	3.5	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	6.3	J	3.5	8.9		5
10138	Butylbenzylphthalate	85-68-7	32	U	32	96		5
10138	Di-n-butylphthalate	84-74-2	32	U	32	96		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.9		5
10138	Diethylphthalate	84-66-2	32	U	32	96		5
10138	Dimethylphthalate	131-11-3	32	U	32	96		5
10138	Fluoranthene	206-44-0	6.0	J	3.5	8.9		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.9		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.9		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.9		5
10138	Di-n-octylphthalate	117-84-0	32	U	32	96		5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.9		5
10138	Pyrene	129-00-0	5.4	J	3.5	8.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	930		81	270		1

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Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302767
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

114-0 SDG#: DE169-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.13	J	0.080	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.043	J	0.036	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36		1
01363	p,p-DDE	72-55-9	0.38		0.071	0.36		1
01363	p,p-DDT	50-29-3	1.3		0.071	0.36		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	1.2		0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.41	U	0.41	0.41		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.075	U	0.075	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.3	U	5.3	18		5
10225	Aroclor 5442	12642-23-8	5.3	U	5.3	18		5
10225	Aroclor 5460	11126-42-4	5.8	J	5.3	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.1		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.1		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.1		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.1		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.1		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.1		5
10225	PCB-1260	11096-82-5	15		2.1	9.1		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.1		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.1		5

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Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302767
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

114-0 SDG#: DE169-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,500		5.22	20.8		1
07914	Boron	7440-42-8	0.924	U	0.924	5.19		1
01650	Calcium	7440-70-2	5,180		6.37	20.8		1
01654	Iron	7439-89-6	24,400		4.89	20.8		1
01656	Lithium	7439-93-2	19.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,840		2.64	10.4		1
06958	Manganese	7439-96-5	421		0.0810	0.519		1
10145	Phosphorus	7723-14-0	439		0.581	10.4		1
01662	Potassium	7440-09-7	4,610		18.7	51.9		1
01667	Sodium	7440-23-5	71.8	J	38.7	104		1
07968	Strontium	7440-24-6	25.0		0.0644	0.519		1
06969	Tin	7440-31-5	2.56	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,090		0.395	1.04		1
10146	Zirconium	7440-67-7	2.34	J	0.872	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.156	J	0.0623	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.17		0.0831	0.415		2
06126	Barium	7440-39-3	117		0.112	0.415		2
06127	Beryllium	7440-41-7	0.539		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.454		0.0415	0.104		2
06131	Chromium	7440-47-3	20.2		0.125	0.415		2
06132	Cobalt	7440-48-4	7.58		0.0208	0.104		2
06133	Copper	7440-50-8	14.5		0.0685	0.415		2
06135	Lead	7439-92-1	10.6		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.666		0.0519	0.104		2
06139	Nickel	7440-02-0	16.2		0.104	0.415		2
06141	Selenium	7782-49-2	0.138	J	0.0415	0.415		2
06142	Silver	7440-22-4	0.0636	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.267		0.0312	0.104		2
06148	Vanadium	7440-62-2	37.3		0.0228	0.104		2
06149	Zinc	7440-66-6	65.9		0.581	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.149		0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.83	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302767
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

114-0 SDG#: DE169-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 12:34	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/14/2011 08:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011 10:46	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/10/2011 00:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 04:11	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/10/2011 01:54	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302767
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

114-0 SDG#: DE169-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:31	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 03:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 03:10	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 03:10	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 03:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 13:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/16/2011 07:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 14:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 15:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

121-0 SDG#: DE169-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	179	U	179	358		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	20	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	30	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	38	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	20	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	350		1
04688	Fluoranthene	206-44-0	36	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

121-0 SDG#: DE169-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	40	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.6	U	3.6	8.9		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.9		5
10138	Anthracene	120-12-7	2.7	J	1.8	8.9		5
10138	Benzo(k)fluoranthene	207-08-9	16		3.6	8.9		5
10138	Butylbenzylphthalate	85-68-7	32	U	32	97		5
10138	Di-n-butylphthalate	84-74-2	32	U	32	97		5
10138	Chrysene	218-01-9	240		1.8	8.9		5
10138	Dibenz(a,h)anthracene	53-70-3	3.8	J	3.6	8.9		5
10138	Diethylphthalate	84-66-2	32	U	32	97		5
10138	Dimethylphthalate	131-11-3	32	U	32	97		5
10138	Fluorene	86-73-7	3.6	U	3.6	8.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.1	J	3.6	8.9		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	8.9		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	8.9		5
10138	Naphthalene	91-20-3	3.6	U	3.6	8.9		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	8.9		5
10138	Di-n-octylphthalate	117-84-0	32	U	32	97		5
10138	Phenanthrene	85-01-8	21		3.6	8.9		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1

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Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

121-0 SDG#: DE169-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	0.99	U	0.99	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.86	1.8		1
10401	MCPA	94-74-6	830		82	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.17	J	0.080	0.18		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

HPLC Organics	**SW-846 8315A**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

121-0 SDG#: DE169-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	4.6		0.86	3.6		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36		1
01363	p,p-DDE	72-55-9	0.32	U	0.32	0.36		1
01363	p,p-DDT	50-29-3	2.3		0.071	0.36		1
01363	Delta BHC	319-86-8	0.076	J	0.039	0.18		1
01363	Dieldrin	60-57-1	0.55		0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.39	U	0.39	0.39		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.33	U	0.33	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	2.1		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

121-0 SDG#: DE169-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	6.3	J	4.3	13		10
10199	EFH (C21-C30)	n.a.	130		4.3	13		10
10199	EFH (C30 - C40)	n.a.	310		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	16	U	16	38		10
10318	o-Terphenyl	84-15-1	16	U	16	38		10
10318	p-Terphenyl	92-94-4	28	J	16	38		10
	Reporting limits were raised due to interference from the sample matrix.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,000		5.29	21.0		1
07914	Boron	7440-42-8	0.936	U	0.936	5.26		1
01650	Calcium	7440-70-2	4,600		6.45	21.0		1
01654	Iron	7439-89-6	26,300		4.95	21.0		1
01656	Lithium	7439-93-2	20.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,370		2.67	10.5		1
06958	Manganese	7439-96-5	393		0.0820	0.526		1
10145	Phosphorus	7723-14-0	391		0.589	10.5		1
01662	Potassium	7440-09-7	4,260		18.9	52.6		1
01667	Sodium	7440-23-5	75.1	J	39.2	105		1
07968	Strontium	7440-24-6	24.8		0.0652	0.526		1
06969	Tin	7440-31-5	2.74	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,100		0.400	1.05		1
10146	Zirconium	7440-67-7	2.43	J	0.884	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.252		0.0619	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0825	0.413		2
06126	Barium	7440-39-3	121		0.111	0.413		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

121-0 SDG#: DE169-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.612		0.0165	0.103		2
06128	Cadmium	7440-43-9	1.76		0.0413	0.103		2
06131	Chromium	7440-47-3	70.8		0.124	0.413		2
06132	Cobalt	7440-48-4	8.93		0.0206	0.103		2
06133	Copper	7440-50-8	17.8		0.0681	0.413		2
06135	Lead	7439-92-1	27.3		0.0107	0.206		2
06138	Molybdenum	7439-98-7	1.36		0.0516	0.103		2
06139	Nickel	7440-02-0	46.7		0.103	0.413		2
06141	Selenium	7782-49-2	0.159	J	0.0413	0.413		2
06142	Silver	7440-22-4	0.0813	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.298		0.0310	0.103		2
06148	Vanadium	7440-62-2	39.9		0.0227	0.103		2
06149	Zinc	7440-66-6	167		0.578	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.351		0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

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14420 Albemarle Point Place
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121-0 SDG#: DE169-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 12:51	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/14/2011 09:14	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011 11:16	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 15:41	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 22:19	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/10/2011 00:35	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 04:25	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/10/2011 02:12	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 18:04	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 23:17	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/07/2011 01:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/14/2011 16:57	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1

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Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302768
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

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14420 Albemarle Point Place
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121-0 SDG#: DE169-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:35	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 03:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 03:13	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 03:13	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 03:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 13:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/16/2011 07:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11158621201B	06/16/2011 07:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 14:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11157243202A	06/08/2011 15:44	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201B	06/06/2011 09:41	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201B	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402A	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302769
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

125-0 SDG#: DE169-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	368		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzo(a)pyrene	50-32-8	22	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	19	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Chrysene	218-01-9	47	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	260	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1

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SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302769
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

125-0 SDG#: DE169-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data was observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1		5
10138	Anthracene	120-12-7	2.1	J	1.8	9.1		5
10138	Benzo(a)anthracene	56-55-3	10		3.6	9.1		5
10138	Benzo(g,h,i)perylene	191-24-2	6.5	J	3.6	9.1		5
10138	Benzo(k)fluoranthene	207-08-9	11		3.6	9.1		5
10138	Butylbenzylphthalate	85-68-7	33	U	33	98		5
10138	Di-n-butylphthalate	84-74-2	33	U	33	98		5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1		5
10138	Diethylphthalate	84-66-2	33	U	33	98		5
10138	Dimethylphthalate	131-11-3	33	U	33	98		5
10138	Fluoranthene	206-44-0	24		3.6	9.1		5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.4	J	3.6	9.1		5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1		5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1		5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1		5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1		5
10138	Di-n-octylphthalate	117-84-0	33	U	33	98		5
10138	Phenanthrene	85-01-8	10		3.6	9.1		5
10138	Pyrene	129-00-0	21		3.6	9.1		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1

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SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302769
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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125-0 SDG#: DE169-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	51	J	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.9		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.94	U	0.94	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	1,200		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.21	U	0.21	0.21		1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP and 2,4-DB.

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

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Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066	U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	1.9	J	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.37		1
01363	p,p-DDE	72-55-9	1.5		0.073	0.37		1
01363	p,p-DDT	50-29-3	1.0		0.073	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.24	U	0.24	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.099	U	0.099	0.37		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.26	U	0.26	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	6.3	J	5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4		5
10225	PCB-1254	11097-69-1	1.8	U	1.8	9.4		5
10225	PCB-1260	11096-82-5	7.6	J	2.1	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5

Reporting limits were raised due to interference from the sample matrix.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)	n.a.	3.9	J	2.2	6.6		5
10199	EFH (C21-C30)	n.a.	27		2.2	6.6		5

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125-0 SDG#: DE169-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C30 - C40)	n.a.	110		2.2	6.6		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,200		5.55	22.1		1
07914	Boron	7440-42-8	0.981	U	0.981	5.51		1
01650	Calcium	7440-70-2	5,500		6.76	22.1		1
01654	Iron	7439-89-6	30,200		10.4	44.1		2
01656	Lithium	7439-93-2	21.5		0.24	2.2		1
01657	Magnesium	7439-95-4	6,330		2.80	11.0		1
06958	Manganese	7439-96-5	499		0.0860	0.551		1
10145	Phosphorus	7723-14-0	397		0.617	11.0		1
01662	Potassium	7440-09-7	5,400		19.8	55.1		1
01667	Sodium	7440-23-5	82.0	J	41.1	110		1
07968	Strontium	7440-24-6	30.6		0.0684	0.551		1
06969	Tin	7440-31-5	2.77	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,170		0.419	1.10		1
10146	Zirconium	7440-67-7	3.41	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.269		0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.18		0.0873	0.437		2
06126	Barium	7440-39-3	133		0.118	0.437		2
06127	Beryllium	7440-41-7	0.693		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.542		0.0437	0.109		2
06131	Chromium	7440-47-3	26.2		0.131	0.437		2
06132	Cobalt	7440-48-4	9.98		0.0218	0.109		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302769
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

125-0 SDG#: DE169-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	17.2		0.0720	0.437		2
06135	Lead	7439-92-1	13.0		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.633		0.0546	0.109		2
06139	Nickel	7440-02-0	20.1		0.109	0.437		2
06141	Selenium	7782-49-2	0.159	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0469	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.312		0.0327	0.109		2
06148	Vanadium	7440-62-2	45.8		0.0240	0.109		2
06149	Zinc	7440-66-6	82.7		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.163		0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.9		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302769
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

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Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

125-0 SDG#: DE169-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 13:08	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLD026	06/14/2011 09:39	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11154SLB026	06/21/2011 11:55	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11154SLB026	06/04/2011 06:00	Roman Kuropatkin	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLD026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 16:23	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570003A	06/08/2011 22:29	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111580024A	06/10/2011 01:03	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111540012A	06/18/2011 04:52	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580007A	06/10/2011 02:31	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111540012A	06/04/2011 08:35	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580007A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111580024A	06/08/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	111570003A	06/07/2011 11:50	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580027A	06/09/2011 16:49	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 23:31	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/07/2011 01:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 09:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580027A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708002	06/14/2011 05:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708002	06/14/2011 06:10	John W Yanzuk II	2
01656	Lithium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708002	06/10/2011 12:39	Joanne M Gates	1

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Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302769
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

125-0 SDG#: DE169-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06126	Barium	SW-846 6020	1	111601026001D	06/11/2011 03:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06131	Chromium	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06133	Copper	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06135	Lead	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111601026001C	06/11/2011 03:16	David K Beck	2
06139	Nickel	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06141	Selenium	SW-846 6020	1	111601026001B	06/11/2011 03:16	David K Beck	2
06142	Silver	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06145	Thallium	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
06149	Zinc	SW-846 6020	1	111601026001A	06/11/2011 03:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	111595711004	06/10/2011 13:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708002	06/09/2011 20:19	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026001	06/09/2011 20:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711004	06/09/2011 02:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11158621201B	06/16/2011 07:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11158621201B	06/16/2011 07:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157621202B	06/11/2011 15:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11157243202A	06/08/2011 15:50	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201B	06/06/2011 09:42	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11158621201B	06/14/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157621202B	06/06/2011 08:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201B	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11157243202A	06/06/2011 12:10	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB10-SA5DN-SS-053111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB10 SDG#: DE169-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.18		0.531	1.06		1
	N-Nitrosodimethylamine is detected in the method blank at an estimated concentration of 12.10 ng/l. The blank value was not subtracted from the analytical result.							
	The analysis was repeated outside of the required hold time and N-Nitrosodimethylamine was again detected in the blank and sample. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	63		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1

*=This limit was used in the evaluation of the final result
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Sample Description: EB10-SA5DN-SS-053111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB10 SDG#: DE169-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.054		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.054		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.054		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.054		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.054		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.054		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.054		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.054		1
10137	Butylbenzylphthalate	85-68-7	0.054	U	0.054	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.062	J	0.054	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.054		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.054		1
10137	Diethylphthalate	84-66-2	0.054	U	0.054	1.1		1
10137	Dimethylphthalate	131-11-3	0.054	U	0.054	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.054	U	0.054	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.054		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.054		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.054		1
10137	1-Methylnaphthalene	90-12-0	0.028	J	0.011	0.054		1
10137	2-Methylnaphthalene	91-57-6	0.030	J	0.011	0.054		1
10137	Naphthalene	91-20-3	0.15		0.033	0.054		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.054		1
10137	Di-n-octylphthalate	117-84-0	0.054	U	0.054	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.054		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.054		1
	Reporting limits were raised due to limited sample volume.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1

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Sample Description: EB10-SA5DN-SS-053111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB10 SDG#: DE169-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.4		1
10407	2,4-DB	94-82-6	0.33	U	0.33	1.1		1
10407	Dicamba	1918-00-9	0.087	U	0.087	0.33		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	330	U	330	1,100		1
10407	MCPP	93-65-2	54	U	54	220		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010		1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.010		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB10-SA5DN-SS-053111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB10 SDG#: DE169-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.50		1
00177	p,p-DDD	72-54-8	0.0050	U	0.0050	0.020		1
00177	p,p-DDE	72-55-9	0.0050	U	0.0050	0.020		1
00177	p,p-DDT	50-29-3	0.0050	U	0.0050	0.020		1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.010		1
00177	Dieldrin	60-57-1	0.0053	U	0.0053	0.020		1
00177	Endosulfan I	959-98-8	0.0043	U	0.0043	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0058	U	0.0058	0.020		1
00177	Endrin	72-20-8	0.0081	U	0.0081	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.10		1
00177	Endrin Ketone	53494-70-5	0.0050	U	0.0050	0.020		1
00177	Heptachlor	76-44-8	0.0088	J	0.0026	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.010		1
00177	Methoxychlor	72-43-5	0.030	U	0.030	0.10		1
00177	Mirex	2385-85-5	0.084	U	0.084	0.25		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C15-C20)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C21-C30)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C30 - C40)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C8-C11)	n.a.	0.095	U	0.095	0.57		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB10 SDG#: DE169-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.084	U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084	U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084	U	0.084	0.26		1
	The LCSD recovery for m-Terphenyl is outside the QC limits. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.							
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000052	U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		mg/l		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000046	U	0.000046	0.00020		1

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SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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-EB10 SDG#: DE169-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.5		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11153WAI026	06/21/2011 23:40	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11155WAA026	06/11/2011 12:18	Mark A Clark	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11153WAB026	06/17/2011 02:11	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11155WAA026	06/04/2011 11:00	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11153WAB026	06/02/2011 14:15	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11153WAI026	06/02/2011 13:30	Wanda F Oswald	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111580002A	06/09/2011 00:47	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111520020A	06/04/2011 01:03	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111540002A	06/08/2011 07:59	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111570020A	06/13/2011 20:59	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111570021A	06/08/2011 05:59	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111570021A	06/07/2011 03:30	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111570020A	06/07/2011 03:30	Sherry L Morrow	1

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EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
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-EB10 SDG#: DE169-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111540002A	06/03/2011 19:00	Elaine F Stoltzfus	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111520020A	06/02/2011 09:20	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111580002A	06/07/2011 18:00	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580017A	06/08/2011 17:04	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111530034A	06/02/2011 22:31	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111530009A	06/02/2011 18:01	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111530008A	06/04/2011 10:59	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	2	111580017A	06/07/2011 18:00	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111530008A	06/02/2011 18:30	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111601848003	06/12/2011 07:14	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111601848003	06/10/2011 12:57	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06025	Arsenic	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06026	Barium	SW-846 6020	1	111536050006D	06/08/2011 00:37	David K Beck	1
06027	Beryllium	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06028	Cadmium	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06031	Chromium	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06032	Cobalt	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06033	Copper	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06035	Lead	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06038	Molybdenum	SW-846 6020	1	111536050006C	06/08/2011 00:37	David K Beck	1
06039	Nickel	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06041	Selenium	SW-846 6020	1	111536050006B	06/08/2011 00:37	David K Beck	1
06042	Silver	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06045	Thallium	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06048	Vanadium	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
06049	Zinc	SW-846 6020	1	111536050006A	06/08/2011 00:37	David K Beck	1
00259	Mercury	SW-846 7470A	1	111525713004	06/02/2011 23:44	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111601848003	06/09/2011 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111536050006	06/03/2011 09:32	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111525713004	06/01/2011 16:30	Nelli S Markaryan	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB10-SA5DN-SS-053111 Water**
SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302770
LLI Group # 1249333
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

Submitted: 06/01/2011 09:35
Reported: 07/01/2011 13:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-EB10 SDG#: DE169-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11152196901B	06/02/2011 05:31	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11152196901B	06/02/2011 05:31	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11154621701A	06/03/2011 18:28	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11152281401B	06/01/2011 11:44	Elyse P Brunstetter	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11153117101B	06/03/2011 09:22	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11153117101B	06/02/2011 10:00	Nancy J Shoop	1
00200	18b pH by 9040B	SW-846 9040B	1	11152020001A	06/01/2011 19:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111572AA	Sample number(s): 6302747-6302749,6302751									
Acetone	8.4		6.7	8.0	ug/kg	113		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	103		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	104		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	106		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	110		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	106		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	75		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	89		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	106		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	84		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	113		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	108		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	107		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	105		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	111		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108		61-134		
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	105		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	108		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	106		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	99		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	108		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	110		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	108		80-120		
Batch number: E111531BA	Sample number(s): 6302747-6302749,6302751									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	111	70-130	6	30
Batch number: E111571AA	Sample number(s): 6302752-6302753									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	106	80-123	6	30
Batch number: L111531AA	Sample number(s): 6302752-6302753									
Acetone	6	U	6.	20	ug/l	108	108	49-234	0	30
Benzene	0.5	U	0.5	5	ug/l	100	102	79-120	2	30
Bromobenzene	1	U	1.	5	ug/l	91	94	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	96	99	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	95	97	80-120	1	30
Bromoform	1	U	1.	5	ug/l	81	82	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	109	114	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	96	94	66-151	1	30
n-Butylbenzene	1	U	1.	5	ug/l	97	100	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	92	96	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	92	93	80-120	2	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	99	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	96	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	109	113	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	91	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	103	105	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	100	109	60-129	9	30
2-Chlorotoluene	1	U	1.	5	ug/l	95	95	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	98	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	69	70	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	90	56-126	4	30
Dibromochloromethane	1	U	1.	5	ug/l	91	92	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	99	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	95	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	92	95	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	93	95	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	102	104	79-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	109	109	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	95	99	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	97	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	100	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	99	78-120	4	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	95	77-124	7	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	99	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	93	93	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	93	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	100	79-120	1	30
Freon 113	2	U	2.	10	ug/l	100	99	69-128	1	30
Freon 133a	2	U	2.	5	ug/l	106	109	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	82	86	58-120	4	30
2-Hexanone	3	U	3.	10	ug/l	94	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	101	100	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	90	93	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	96	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	93	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	2	30
n-Propylbenzene	1	U	1.	5	ug/l	94	95	80-120	0	30
Styrene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	95	97	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	96	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	100	100	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	86	87	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	82	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	104	103	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	98	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	96	98	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	117	113	64-129	4	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	95	97	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	95	99	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	96	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	100	109	65-125	9	30
m+p-Xylene	0.8	U	0.8	5	ug/l	99	99	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	97	80-120	2	30
Batch number: 11153SLD026	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302769									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11153WAB026	Sample number(s): 6302752,6302770									
Acenaphthene	0.010	U	0.010	0.050	ug/l	86	91	74-109	6	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	87	94	70-110	8	30
Anthracene	0.010	U	0.010	0.050	ug/l	92	93	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	88	90	72-114	3	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	89	89	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	94	84	69-123	12	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	101	85	57-131	17	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	98	87	59-130	13	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	69	83	40-138	18	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	95	83	74-131	13	30
Chrysene	0.010	U	0.010	0.050	ug/l	89	95	76-116	6	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	104	87	55-134	18	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	82	101	57-134	20	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	64	88	40-119	31*	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	83	85	57-154	3	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.010	U	0.010	0.050	ug/l	94	98	75-116	4	30
Fluorene	0.010	U	0.010	0.050	ug/l	98	107	75-114	9	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	101	85	69-124	17	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	83	93	71-117	11	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	78	86	75-115	9	30
Naphthalene	0.030	U	0.030	0.050	ug/l	84	85	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	48	49	36-89	3	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	95	96	57-145	1	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	90	89	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	87	96	69-118	10	30
Batch number: 11153WAI026	Sample number(s): 6302770									
N-Nitrosodimethylamine	12.1		0.500	1.00	ng/l	95	100	70-130	5	30
Batch number: 11154SLB026	Sample number(s): 6302747-6302749,6302751,6302754-6302769									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	87		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	98		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	93		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	84		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	86		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	103		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	88		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	73		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	106		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	84		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	88		56-121		
Batch number: 11155WAA026	Sample number(s): 6302752,6302770									
Aniline	1	U	1.	5	ug/l	57	56	49-101	3	30
Benzidine	20	U	20.	60	ug/l	42	39	34-117	8	30
Benzoic acid	6	U	6.	15	ug/l	46	41	10-69	13	30
Benzyl alcohol	5	U	5.	15	ug/l	85	84	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	94	95	82-117	1	30
Carbazole	1	U	1.	5	ug/l	96	97	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	89	70-123	0	30
4-Chloroaniline	1	U	1.	5	ug/l	51	47	42-124	8	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	94	74-124	2	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	94	94	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	95	95	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	84	69	54-132	20	30
2-Chlorophenol	1	U	1.	5	ug/l	92	94	77-108	3	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	96	95	82-111	1	30
Dibenzofuran	1	U	1.	5	ug/l	98	98	83-108	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	87	55-118	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	89	50-119	0	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	88	53-119	0	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	53	55	49-111	3	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	94	95	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	86	89	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	98	98	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	93	96	78-119	3	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	84	85	52-131	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	98	98	81-115	0	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	98	85-115	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	101	103	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	99	102	81-118	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	85	85	57-124	0	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	82	82	36-118	0	30
Hexachloroethane	1	U	1.	5	ug/l	84	85	52-113	1	30
Isophorone	1	U	1.	5	ug/l	95	97	74-117	2	30
2-Methylphenol	1	U	1.	5	ug/l	82	83	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	79	80	61-103	1	30
2-Nitroaniline	1	U	1.	5	ug/l	100	102	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	84	82	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	64	60	59-100	7	30
Nitrobenzene	1	U	1.	5	ug/l	98	96	75-109	2	30
2-Nitrophenol	1	U	1.	5	ug/l	99	102	86-120	3	30
4-Nitrophenol	10	U	10.	30	ug/l	45	43	16-78	4	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	89	91	69-110	3	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	96	67-136	1	30
Pentachlorophenol	3	U	3.	15	ug/l	87	86	53-110	0	30
Phenol	1	U	1.	5	ug/l	48	49	21-67	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	90	71-112	1	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	100	98	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	104	81-113	2	30
Batch number: 11157SLD026	Sample number(s): 6302747-6302749,6302751,6302754-6302769									
Acenaphthene	17	U	17.	170	ug/kg	132*		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	133*		75-122		
Aniline	170 U		170.	500	ug/kg	110*		34-94		
Anthracene	17	U	17.	170	ug/kg	133*		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	107		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	130*		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	133*		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	126		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	147*		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	141*		67-125		
Benzoic acid	170 U		170.	500	ug/kg	130*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	125*		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	130*		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	140*		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	134*		79-112		
Carbazole	17	U	17.	170	ug/kg	131*		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	128*		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	87		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	128*		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	119*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	120		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	102		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	129*		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	126*		79-110		
Chrysene	17	U	17.	170	ug/kg	130*		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	145*		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	130*		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	116*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	117*		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	119*		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	86		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	130*		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	129*		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	132*		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	131*		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	141*		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	131*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	130*		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	130*		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	139*		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	138*		75-117		
Fluoranthene	17	U	17.	170	ug/kg	133*		78-116		
Fluorene	17	U	17.	170	ug/kg	129*		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	133*		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	132*		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	124*		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	114*		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	145*		64-119		
Isophorone	17	U	17.	170	ug/kg	129*		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	129*		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	121*		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	122*		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	118*		66-117		
Naphthalene	17	U	17.	170	ug/kg	126*		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	134*		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	127*		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	98		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	129*		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	132*		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	114		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	118*		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	111*		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	133		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	148*		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	119*		51-117		
Phenanthrene	17	U	17.	170	ug/kg	129*		77-113		
Phenol	17	U	17.	170	ug/kg	112		58-112		
Pyrene	17	U	17.	170	ug/kg	136*		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	130*		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	131*		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	136*		78-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11151B34B	Sample number(s): 6302747-6302749,6302751									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	74	67-119	8	30
Batch number: 11157A20A	Sample number(s): 6302753									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111580002A	Sample number(s): 6302770									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	97	96	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	100	99	72-141	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	99	96	53-129	3	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 111580011A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	101	98	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	101	98	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	104		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	111		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	103		80-120		
PETN	800 U		800.	2,400	ug/kg	113		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	93		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111520020A	Sample number(s): 6302770									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	96	92	69-130	4	30
Batch number: 111570003A	Sample number(s): 6302747-6302749,6302756-6302757,6302762-6302766,6302768-6302769									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	97		80-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111570004A	Sample number(s): 6302751,6302758,6302760-6302761									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 111540002A	Sample number(s): 6302752,6302770									
2,4-D	0.16	U	0.16	0.50	ug/l	96	112	73-157	15	30
Dalapon	0.25	U	0.25	1.3	ug/l	76	86	40-100	12	30
2,4-DB	0.30	U	0.30	1.0	ug/l	92	104	65-130	12	30
Dicamba	0.080	U	0.080	0.30	ug/l	88	100	68-135	13	30
Dinoseb	0.10	U	0.10	0.50	ug/l	72	84	32-91	15	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	112	128	76-170	13	30
MCPA	300 U		300.	1,000	ug/l	84	94	65-128	11	30
MCPP	50	U	50.	200	ug/l	88	96	67-137	9	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	92	108	63-147	16	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	108	63-134	8	30
Batch number: 111580024A	Sample number(s): 6302754-6302769									
2,4-D	1.2	U	1.2	3.6	ug/kg	95		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	49		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	86		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	90		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	125		62-170		
MCPA	76	U	76.	250	ug/kg	74		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	76		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	89		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		68-114		
Batch number: 111590022A	Sample number(s): 6302756,6302764									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 111540012A	Sample number(s): 6302754-6302769									
Aldrin	0.066	U	0.066	0.17	ug/kg	82		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	115		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	103		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	124		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	109		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	100		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	119		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	103		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	88		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	75		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	97		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	116		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	86		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	105		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	104		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	122		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111570020A	Sample number(s): 6302752,6302770									
Aldrin	0.0020	U	0.0020	0.010	ug/l	98	97	54-159	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	120	130	59-146	8	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	120	120	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	125	125	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	142*	142*	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	110	110	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	125	130	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	130*	130*	68-128	0	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	110	110	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	120	115	52-132	4	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	110	110	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	110	115	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	120	57-126	9	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	122	73-156	9	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	130	52-133	8	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111570021A	Sample number(s): 6302752,6302770									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	78	84	35-84	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	90	92	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	90	98	56-135	9	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111580007A	Sample number(s): 6302747-6302749,6302751,6302754-6302769									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	88	88	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	82		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	110		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111580017A	Sample number(s): 6302770									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	98	98	69-125	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	103	99	77-125	4	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	100	68-124	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	87	80-121	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	80	80	46-103	0	30
Batch number: 111580027A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	111		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	115		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	73		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	114		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		54-107		
Batch number: 111520021A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769									
Ethanol	100	U	100.	500	ug/kg	90		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	92		68-129		
Batch number: 111530009A	Sample number(s): 6302770									
Diethylene glycol	10	U	10.	100	mg/l	105	110	78-126	5	20
Ethylene glycol	10	U	10.	100	mg/l	105	110	80-124	5	20
Propylene glycol	10	U	10.	100	mg/l	105	105	80-120	0	20
Batch number: 111530020A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769									
Diethylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111530034A	Sample number(s): 6302770									
Ethanol	200	U	200.	1,000	ug/l	96		66-132		
Isopropanol	200	U	200.	1,000	ug/l	92		75-125		
Methanol	200	U	200.	1,000	ug/l	96		71-140		
Batch number: 111530008A	Sample number(s): 6302770									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	81	71*	75-125	13	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	93	81	75-125	14	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	88	78	75-125	12	20
Batch number: 111590035A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
Batch number: 111525713004	Sample number(s): 6302752,6302770									
Mercury	0.000046	U	0.00004 6	0.00020	mg/l	91	89	80-120	2	20
Batch number: 111536050006A	Sample number(s): 6302752,6302770									
Antimony	0.00030	U	0.00030	0.0010	mg/l	102	99	87-110	3	20
Arsenic	0.00095	U	0.00095	0.0020	mg/l	100	100	86-111	0	20
Beryllium	0.00013	U	0.00013	0.00050	mg/l	106	106	90-113	0	20
Cadmium	0.00020	U	0.00020	0.00050	mg/l	99	103	90-114	3	20
Chromium	0.00060	U	0.00060	0.0020	mg/l	96	96	90-118	1	20
Cobalt	0.00010	U	0.00010	0.00050	mg/l	100	100	87-113	0	20
Copper	0.00038	U	0.00038	0.0020	mg/l	99	99	90-113	1	20
Lead	0.000052		0.00005	0.0010	mg/l	99	102	90-115	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	U	2							
Nickel	0.00050 U	0.00050	0.0020	mg/l	101	102	90-113	0	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	100	101	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	100	89-116	3	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	94	96	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	98	90-116	1	20
Batch number: 111536050006B	Sample number(s): 6302752,6302770								
Selenium	0.00025 U	0.00025	0.0020	mg/l	103	106	85-114	2	20
Batch number: 111536050006C	Sample number(s): 6302752,6302770								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	100	98	89-115	2	20
Batch number: 111536050006D	Sample number(s): 6302752,6302770								
Barium	0.00053 U	0.00053	0.0020	mg/l	98	99	88-113	1	20
Batch number: 111595711004	Sample number(s): 6302747-6302751,6302754-6302769								
Mercury	0.0028 U	0.0028	0.0984	mg/kg	100		88-123		
Batch number: 111601026001A	Sample number(s): 6302747-6302751,6302754-6302769								
Antimony	0.0600 U	0.0600	0.200	mg/kg	127		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	101		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	104		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	109		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	108		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	98		83-110		
Lead	0.0104 U	0.0104	0.200	mg/kg	104		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	105		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	104		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	104		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	96		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	104		81-112		
Batch number: 111601026001B	Sample number(s): 6302747-6302751,6302754-6302769								
Selenium	0.0400 U	0.0400	0.400	mg/kg	102		83-111		
Batch number: 111601026001C	Sample number(s): 6302747-6302751,6302754-6302769								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	110		78-122		
Batch number: 111601026001D	Sample number(s): 6302747-6302751,6302754-6302769								
Barium	0.108 U	0.108	0.400	mg/kg	105		81-111		
Batch number: 111601848003	Sample number(s): 6302752,6302770								
Aluminum	0.0834 U	0.0834	0.200	mg/l	102	105	90-112	3	20
Boron	0.0138 U	0.0138	0.0500	mg/l	103	103	89-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	103	107	90-112	4	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	105	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	105	80-120	3	20
Magnesium	0.0195 J	0.0172	0.100	mg/l	104	108	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	108	108	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	109	103	80-120	5	20
Potassium	0.239 U	0.239	0.500	mg/l	102	106	85-115	4	20
Sodium	0.433 U	0.433	1.00	mg/l	102	105	87-114	3	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	107	106	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	107	102	90-110	5	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	108	90-113	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Zirconium	0.0206	U	0.0206	0.0500	mg/l	102	107	80-120	5	20
Batch number: 111605708002	Sample number(s): 6302747-6302751,6302754-6302769									
Aluminum	5.03	U	5.03	20.0	mg/kg	90		61-110		
Boron	0.890	U	0.890	5.00	mg/kg	99		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	101		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	93		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	102		89-112		
Phosphorus	0.975	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	94		78-110		
Sodium	37.3	U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.07	J	1.00	10.0	mg/kg	100		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	82		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	101		80-120		
Batch number: 11152196901B	Sample number(s): 6302770									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	100	98	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	101	101	90-110	0	20
Batch number: 11152281401B	Sample number(s): 6302752,6302770									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	108	104	90-110	4	20
Batch number: 11153117101B	Sample number(s): 6302770									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	106	106	90-110	0	20
Batch number: 11154102201A	Sample number(s): 6302747-6302748,6302750-6302751,6302756-6302758,6302760-6302764									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	102		80-120		
Batch number: 11154102201B	Sample number(s): 6302765-6302766,6302768-6302769									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	102		80-120		
Batch number: 11154621701A	Sample number(s): 6302752,6302770									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	0	20
Batch number: 11157243202A	Sample number(s): 6302747-6302748,6302750-6302751,6302754-6302769									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11157621202A	Sample number(s): 6302747-6302748,6302750-6302751,6302754-6302761									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11157621202B	Sample number(s): 6302762-6302769									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11158621201A	Sample number(s): 6302747-6302748,6302750-6302751,6302754-6302761									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	93		90-110		
Batch number: 11158621201B	Sample number(s): 6302762-6302769									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	93		90-110		
Batch number: 11161196605B	Sample number(s): 6302752									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	96	94	90-110	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11152020001A	Sample number(s): 6302752,6302770								
18b pH by 9040B					100	100	90-110	0	3
Batch number: 11157039401B	Sample number(s): 6302747,6302750-6302751,6302754-6302759								
18a pH by 9045C					100		95-105		
Batch number: 11157039402A	Sample number(s): 6302760-6302768								
18a pH by 9045C					100		95-105		
Batch number: 11157039402B	Sample number(s): 6302769								
18a pH by 9045C					100		95-105		
Batch number: 11159162401B	Sample number(s): 6302754-6302755,6302759,6302767								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162402A	Sample number(s): 6302747-6302751,6302756-6302758,6302760-6302766,6302768-6302769								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111572AA	Sample number(s): 6302747-6302749,6302751 UNSPK: 6302747								
Acetone	87	95	15-210	10	30				
Benzene	117	112	55-143	25	30				
Bromobenzene	111	104	43-139	26	30				
Bromochloromethane	113	112	60-137	21	30				
Bromodichloromethane	106	105	53-136	21	30				
Bromoform	95	97	38-124	18	30				
Bromomethane	91	86	42-168	26	30				
2-Butanone	83	93	37-163	9	30				
n-Butylbenzene	121	104	30-146	35*	30				
sec-Butylbenzene	120	106	33-157	32*	30				
tert-Butylbenzene	117	105	41-152	31*	30				
Carbon Tetrachloride	125	118	45-153	27	30				
Chlorobenzene	116	108	49-135	27	30				
Chloroethane	85	79	39-152	27	30				
2-Chloroethyl Vinyl Ether	81	87	32-139	12	30				
Chloroform	116	112	61-142	24	30				
Chloromethane	100	96	51-163	25	30				
2-Chlorotoluene	114	103	42-146	30	30				
4-Chlorotoluene	117	105	39-145	31*	30				
Chlorotrifluoroethene	68*	80	70-130	5	30				
1,2-Dibromo-3-chloropropane	83	97	30-139	4	30				
Dibromochloromethane	102	103	51-128	19	30				
1,2-Dibromoethane	102	101	54-129	21	30				
Dibromomethane	99	102	57-130	17	30				
1,2-Dichlorobenzene	112	104	36-133	27	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichlorobenzene	112	102	34-134	29	30				
1,4-Dichlorobenzene	111	102	35-136	29	30				
Dichlorodifluoromethane	97	89	26-151	28	30				
1,1-Dichloroethane	118	114	63-142	24	30				
1,2-Dichloroethane	112	114	68-131	19	30				
1,1-Dichloroethene	130	124	61-149	25	30				
cis-1,2-Dichloroethene	113	109	60-136	24	30				
trans-1,2-Dichloroethene	115	112	59-142	23	30				
1,2-Dichloropropane	108	107	62-135	21	30				
1,3-Dichloropropane	104	106	58-129	18	30				
2,2-Dichloropropane	120	116	53-147	24	30				
1,1-Dichloropropene	122	114	54-145	27	30				
cis-1,3-Dichloropropene	101	103	51-131	18	30				
trans-1,3-Dichloropropene	98	100	49-129	19	30				
Ethylbenzene	118	108	44-141	29	30				
Freon 113	132	126	56-156	25	30				
Freon 133a	98	115	61-131	6	30				
Hexachlorobutadiene	105	93	10-155	32*	30				
2-Hexanone	85	97	32-160	7	30				
Isopropylbenzene	123	111	38-144	30	30				
p-Isopropyltoluene	119	104	29-152	33*	30				
Methyl Tertiary Butyl Ether	95	102	55-129	13	30				
4-Methyl-2-pentanone	85	93	46-139	11	30				
Methylene Chloride	118	114	61-141	21	30				
n-Propylbenzene	121	108	39-157	32*	30				
Styrene	116	108	35-134	27	30				
1,1,1,2-Tetrachloroethane	112	109	52-130	23	30				
1,1,2,2-Tetrachloroethane	91	93	40-152	18	30				
Tetrachloroethene	128	117	42-149	29	30				
Toluene	118	110	50-146	27	30				
1,2,3-Trichlorobenzene	97	94	10-140	23	30				
1,2,4-Trichlorobenzene	94	88	10-136	26	30				
1,1,1-Trichloroethane	121	116	64-142	24	30				
1,1,2-Trichloroethane	102	104	54-139	18	30				
Trichloroethene	114	110	53-144	23	30				
Trichlorofluoromethane	114	108	47-163	26	30				
1,2,3-Trichloropropane	92	96	45-154	17	30				
1,2,4-Trimethylbenzene	114	104	37-149	29	30				
1,3,5-Trimethylbenzene	120	107	38-150	31*	30				
Vinyl Chloride	100	97	50-154	23	30				
m+p-Xylene	123	112	44-137	29	30				
o-Xylene	116	108	42-137	27	30				
Batch number: E111531BA	Sample number(s): 6302747-6302749,6302751 UNSPK: 6302747								
1,4-Dioxane	81	85	70-130	14	30				
Batch number: 11153SLD026	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302769 UNSPK: 6302747								
N-Nitrosodimethylamine	82	86	70-130	5	30				
Batch number: 11154SLB026	Sample number(s): 6302747-6302749,6302751,6302754-6302769 UNSPK: 6302747								
Acenaphthene	80	81	63-105	2	30				
Acenaphthylene	77	78	67-114	2	30				

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Reported: 07/01/11 at 01:59 PM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	84	86	60-122	3	30				
Benzo(a)anthracene	92	94	59-128	3	30				
Benzo(a)pyrene	93	95	45-138	4	30				
Benzo(b)fluoranthene	105	104	43-155	0	30				
Benzo(g,h,i)perylene	55	56	33-141	2	30				
Benzo(k)fluoranthene	103	109	42-144	6	30				
Butylbenzylphthalate	105	106	57-173	1	30				
Di-n-butylphthalate	98	100	65-148	2	30				
Chrysene	91	94	48-134	4	30				
Dibenz(a,h)anthracene	70	71	22-133	3	30				
Diethylphthalate	84	82	70-136	1	30				
Dimethylphthalate	84	82	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	103	102	39-167	0	30				
Fluoranthene	91	93	26-166	4	30				
Fluorene	83	83	66-122	2	30				
Indeno(1,2,3-cd)pyrene	66	67	21-143	3	30				
1-Methylnaphthalene	88	89	72-123	3	30				
2-Methylnaphthalene	79	80	64-103	2	30				
Naphthalene	81	82	61-102	2	30				
N-Nitrosodimethylamine	71	72	48-113	3	30				
Di-n-octylphthalate	121	119	40-192	0	30				
Phenanthrene	82	84	12-165	3	30				
Pyrene	84	86	15-153	4	30				
Batch number: 11157SLD026	Sample number(s): 6302747-6302749,6302751,6302754-6302769 UNSPK: 6302747								
Acenaphthene	125*	126*	75-115	1	30				
Acenaphthylene	128*	127*	81-110	0	30				
Aniline	98*	93	35-95	5	30				
Anthracene	130*	128*	75-115	1	30				
Benzidine	78	68	35-141	13	30				
Benzo(a)anthracene	130*	124*	65-122	4	30				
Benzo(a)pyrene	131*	128*	57-126	1	30				
Benzo(b)fluoranthene	123	121	59-125	1	30				
Benzo(g,h,i)perylene	146*	142*	59-127	2	30				
Benzo(k)fluoranthene	136*	133*	56-132	2	30				
Benzoic acid	73	81	10-173	11	30				
Benzyl alcohol	122*	125*	67-115	3	30				
4-Bromophenyl-phenylether	124	121	67-129	2	30				
Butylbenzylphthalate	136*	133	73-134	1	30				
Di-n-butylphthalate	129*	125*	67-123	3	30				
Carbazole	128*	125*	64-120	2	30				
4-Chloro-3-methylphenol	125*	127*	76-110	2	30				
4-Chloroaniline	85	83	23-95	2	30				
bis(2-Chloroethoxy)methane	121*	124*	75-104	2	30				
bis(2-Chloroethyl)ether	116	119*	60-116	3	30				
bis(2-Chloroisopropyl)ether	114	117	55-142	3	30				
2-Chloronaphthalene	112	111	50-141	0	30				
2-Chlorophenol	128*	128*	73-121	1	30				
4-Chlorophenyl-phenylether	125*	124*	80-109	0	30				
Chrysene	131*	122	62-128	6	30				
Dibenz(a,h)anthracene	144*	141*	65-125	1	30				
Dibenzofuran	123*	124*	71-112	1	30				
1,2-Dichlorobenzene	113*	115*	66-108	2	30				

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1,3-Dichlorobenzene	111*	113*	63-109	2	30				
1,4-Dichlorobenzene	112*	114*	70-100	2	30				
3,3'-Dichlorobenzidine	75	69	16-119	7	30				
2,4-Dichlorophenol	127*	129*	78-117	3	30				
Diethylphthalate	126*	123*	66-118	2	30				
2,4-Dimethylphenol	128*	127*	78-110	0	30				
3,5-Dimethylphenol	102	103	70-130	1	30				
Dimethylphthalate	124*	125*	64-118	1	30				
4,6-Dinitro-2-methylphenol	43	56	24-116	27	30				
2,4-Dinitrophenol	18*	27	20-143	39*	30				
2,4-Dinitrotoluene	126*	124*	73-113	1	30				
2,6-Dinitrotoluene	125*	123	69-123	1	30				
1,2-Diphenylhydrazine	133*	131*	71-129	1	30				
bis(2-Ethylhexyl)phthalate	135*	130*	63-122	3	30				
Fluoranthene	132*	126*	73-112	4	30				
Fluorene	126*	123*	77-111	2	30				
Hexachlorobenzene	129*	123*	77-114	4	30				
Hexachlorobutadiene	118	122*	62-120	4	30				
Hexachlorocyclopentadiene	98	106	10-153	8	30				
Hexachloroethane	110*	111*	57-109	1	30				
Indeno(1,2,3-cd)pyrene	144*	142*	61-126	1	30				
Isophorone	124*	125*	73-102	1	30				
1-Methylnaphthalene	125*	125*	73-112	1	30				
2-Methylnaphthalene	118*	118*	76-114	1	30				
2-Methylphenol	121*	123*	75-111	2	30				
4-Methylphenol	119*	119*	71-111	1	30				
Naphthalene	120*	121*	72-116	1	30				
2-Nitroaniline	131*	126*	67-125	3	30				
3-Nitroaniline	122	115	59-122	5	30				
4-Nitroaniline	97	90	52-112	7	30				
Nitrobenzene	124*	123*	72-106	0	30				
2-Nitrophenol	125*	124*	74-115	0	30				
4-Nitrophenol	100	94	54-113	5	30				
N-Nitroso-di-n-propylamine	118*	119*	60-116	1	30				
N-Nitrosodimethylamine	104	118*	47-116	14	30				
N-Nitrosodiphenylamine	129	128	86-145	1	30				
Di-n-octylphthalate	140*	137*	56-126	1	30				
Pentachlorophenol	88	94	28-127	7	30				
Phenanthrene	123	123	65-125	1	30				
Phenol	113	114	58-126	2	30				
Pyrene	134*	129*	74-126	3	30				
1,2,4-Trichlorobenzene	124*	121*	72-115	2	30				
2,4,5-Trichlorophenol	128*	123*	78-109	4	30				
2,4,6-Trichlorophenol	127*	130*	77-115	3	30				
Batch number: 11151B34B	Sample number(s): 6302747-6302749,6302751 UNSPK: 6302747								
9a TPH by EPA 8015B Gas C5-C12	61	62	39-118	5	30				
Batch number: 111580011A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769 UNSPK: 6302747								
4-Amino-2,6-Dinitrotoluene	110	106	80-127	8	50				
2-Amino-4,6-Dinitrotoluene	109	104	80-137	9	50				
1,3-Dinitrobenzene	115	111	38-166	7	50				

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2,4-Dinitrotoluene	106	101	80-131	9	50				
2,6-Dinitrotoluene	109	103	80-127	9	50				
HMX	95	89	63-128	11	50				
Nitrobenzene	108	103	80-125	8	50				
Nitroglycerin	94	90	80-120	9	50				
2-Nitrotoluene	105	99	80-122	9	50				
3-Nitrotoluene	111	107	72-119	8	50				
4-Nitrotoluene	103	99	80-125	8	50				
PETN	120	113	80-121	9	50				
RDX	88	83	75-129	10	50				
Tetryl	83	78	55-174	10	50				
1,3,5-Trinitrobenzene	101	95	82-126	10	50				
2,4,6-Trinitrotoluene	108	103	82-130	9	50				
Batch number: 111570003A	Sample number(s): 6302747-6302749,6302756-6302757,6302762-6302766,6302768-6302769 UNSPK: 6302747								
25a Formaldehyde 8315A	97	92	80-120	7	50				
Batch number: 111570004A	Sample number(s): 6302751,6302758,6302760-6302761 UNSPK: P304840								
25a Formaldehyde 8315A	92	94	80-120	3	50				
Batch number: 111580024A	Sample number(s): 6302754-6302769 UNSPK: 6302754								
2,4-D	64	49	17-180	26	35				
Dalapon	26	38	10-125	40	50				
2,4-DB	25	47	10-201	61*	50				
Dicamba	130	63	10-190	70*	50				
Dinoseb	18	18	10-46	1	35				
2,4-DP (Dichlorprop)	106	110	33-178	3	50				
MCPA	115	108	10-213	6	50				
MCPP (Mecoprop)	30	35	10-184	18	50				
2,4,5-T	34	46	10-156	30	35				
2,4,5-TP	44	46	24-141	4	35				
Batch number: 111590022A	Sample number(s): 6302756,6302764 UNSPK: 6302756								
6a Perchlorate EPA 6850	107	103	80-120	4	20				
Batch number: 111540012A	Sample number(s): 6302754-6302769 UNSPK: 6302754								
Aldrin	58	55	16-126	5	50				
Alpha BHC	76	64	10-129	17	50				
Beta BHC	59	59	14-147	0	50				
Gamma BHC - Lindane	91	76	10-140	18	50				
p,p-DDD	65	62	16-163	4	50				
p,p-DDE	63	9*	18-161	41	50				
p,p-DDT	1690*	-67*	10-176	159*	50				
Delta BHC	66	59	23-140	10	50				
Dieldrin	274*	57	19-154	132*	50				
Endosulfan I	42	52	16-137	19	50				
Endosulfan II	143	82	28-154	55*	50				
Endosulfan Sulfate	83	63	21-160	27	50				
Endrin	0*	62	11-149	200*	50				
Endrin Aldehyde	439*	39	10-148	167*	35				
Endrin Ketone	0*	48	22-165	200*	50				
Heptachlor	80	67	13-126	18	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Heptachlor Epoxide	276*	82	13-157	108*	50				
Methoxychlor	89	74	32-147	19	50				
Batch number: 111580007A	Sample number(s): 6302747-6302749,6302751,6302754-6302769 UNSPK: 6302747								
PCB-1016	82	78	29-146	5	50				
PCB-1260	113	106	39-149	7	50				
Batch number: 111580027A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769 UNSPK: 6302747								
EFH (C12-C14)	104	111	49-123	6	20				
EFH (C15-C20)	116	123	49-123	6	20				
EFH (C21-C30)	92	125*	49-123	30*	20				
EFH (C30 - C40)	78	99	49-123	18	20				
EFH (C8-C11)	88	92	49-123	3	20				
Batch number: 111520021A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769 UNSPK: 6302747								
Ethanol	83	82	48-130	2	20				
Isopropanol	80	80	12-149	0	20				
Methanol	86	79	43-138	8	20				
Batch number: 111530020A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769 UNSPK: 6302747								
Diethylene glycol	42*	22*	59-109	61*	20				
Ethylene glycol	65	39*	63-107	51*	20				
Propylene glycol	73	44*	63-107	50*	20				
Batch number: 111530034A	Sample number(s): 6302770 UNSPK: P302916								
Ethanol	88	92	62-145	4	20				
Isopropanol	88	88	73-131	0	20				
Methanol	92	96	52-159	4	20				
Batch number: 111590035A	Sample number(s): 6302747-6302749,6302751,6302756-6302758,6302760-6302766,6302768-6302769 UNSPK: 6302747								
m-Terphenyl	76	73*	75-125	2	20				
o-Terphenyl	88	85	75-125	3	20				
p-Terphenyl	88	85	75-125	3	20				
Batch number: 111595711004	Sample number(s): 6302747-6302751,6302754-6302769 UNSPK: 6302747 BKG: 6302747								
Mercury	115	106	65-135	10	20	0.0028 U	0.0142 J	200* (1)	20
Batch number: 111601026001A	Sample number(s): 6302747-6302751,6302754-6302769 UNSPK: 6302747 BKG: 6302747								
Antimony	57*	54*	75-125	5	20	0.118 J	0.181 J	42* (1)	20
Arsenic	158*	169*	75-125	2	20	4.94	5.99	19	20
Beryllium	84	88	75-125	2	20	0.760	0.765	1	20
Cadmium	105	103	75-125	3	20	0.130	0.233	57* (1)	20
Chromium	126*	108	75-125	5	20	23.6	24.1	2	20
Cobalt	97	92	75-125	5	20	11.1	10.1	9	20
Copper	113	110	75-125	2	20	11.9	12.0	1	20
Lead	89	109	75-125	5	20	8.55	7.90	8	20
Nickel	154*	154*	75-125	1	20	16.0	19.7	21*	20
Silver	104	101	75-125	4	20	0.0743 J	0.0588 J	23* (1)	20
Thallium	95	93	75-125	1	20	0.264	0.274	3 (1)	20

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Vanadium	210*	210*	75-125	0	20	37.6	43.0	13	20
Zinc	102 (2)	90 (2)	75-125	2	20	52.3	47.5	10	20
Batch number: 111601026001B	Sample number(s): 6302747-6302751,6302754-6302769 UNSPK: 6302747 BKG: 6302747								
Selenium	90	90	75-125	1	20	0.0561 J	0.0447 J	23* (1)	20
Batch number: 111601026001C	Sample number(s): 6302747-6302751,6302754-6302769 UNSPK: 6302747 BKG: 6302747								
Molybdenum	94	93	75-125	2	20	0.273	0.273	0 (1)	20
Batch number: 111601026001D	Sample number(s): 6302747-6302751,6302754-6302769 UNSPK: 6302747 BKG: 6302747								
Barium	188 (2)	117 (2)	75-125	5	20	130	131	1	20
Batch number: 111605708002	Sample number(s): 6302747-6302751,6302754-6302769 UNSPK: 6302747 BKG: 6302747								
Aluminum	1891 (2)	3229 (2)	75-125	9	20	26,600	27,900	5	20
Boron	106	106	84-115	1	20	0.864 U	0.864 U	0 (1)	20
Calcium	476 (2)	385 (2)	75-125	4	20	5,970	8,600	36*	20
Iron	84 (2)	1419 (2)	75-125	4	20	30,000	28,100	7	20
Lithium	100	101	82-114	2	20	25.0	24.9	0	20
Magnesium	138 (2)	300 (2)	75-125	5	20	6,040	5,970	1	20
Manganese	-398 (2)	-610 (2)	75-125	11	20	1,200	434	94*	20
Phosphorus	92	106	75-125	6	20	148	150	1	20
Potassium	104	120	75-125	5	20	2,210	2,720	21*	20
Sodium	93	93	75-125	0	20	650	572	13	20
Strontium	98	97	75-115	0	20	43.6	41.8	4	20
Tin	87	87	80-110	1	20	2.57 J	2.59 J	1 (1)	20
Titanium	188 (2)	402 (2)	75-125	19	20	845	809	4	20
Zirconium	96	96	75-125	1	20	1.84 J	3.48 J	62* (1)	20
Batch number: 11154102201A	Sample number(s): 6302747-6302748,6302750-6302751,6302756-6302758,6302760-6302764 UNSPK: 6302747 BKG: 6302747								
17a Cyanide by 9012B	106		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11154102201B	Sample number(s): 6302765-6302766,6302768-6302769 UNSPK: 6302765 BKG: 6302765								
17a Cyanide by 9012B	105		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11157243202A	Sample number(s): 6302747-6302748,6302750-6302751,6302754-6302769 UNSPK: 6302747 BKG: 6302747								
3a Cr VI by EPA 7199	90		75-125			1.0	0.31 J	107* (1)	20
Batch number: 11157621202A	Sample number(s): 6302747-6302748,6302750-6302751,6302754-6302761 UNSPK: 6302747 BKG: 6302747								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11157621202B	Sample number(s): 6302762-6302769 UNSPK: 6302762 BKG: 6302762								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11158621201A	Sample number(s): 6302747-6302748,6302750-6302751,6302754-6302761 UNSPK: 6302747 BKG: 6302747								
11a Anions by 300.0 - Fluoride	40*		80-120			16.0	13.2	19	20
11a Anions by 300.0 - Nitrate	91		80-120			1.4 J	1.7	23* (1)	20

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Batch number: 11158621201B	Sample number(s): 6302762-6302769 UNSPK: 6302762 BKG: 6302762								
11a Anions by 300.0 - Fluoride	67*		80-120			1.3	2.6	65* (1)	20
11a Anions by 300.0 - Nitrate	98		80-120			1.9	1.7	11 (1)	20
Batch number: 11157039401B	Sample number(s): 6302747,6302750-6302751,6302754-6302759 BKG: 6302747								
18a pH by 9045C						8.95	8.93	0	3
Batch number: 11157039402A	Sample number(s): 6302760-6302768 BKG: 6302763								
18a pH by 9045C						7.10	7.12	0	3
Batch number: 11157039402B	Sample number(s): 6302769 BKG: P304841								
18a pH by 9045C						7.74	7.86	2	3
Batch number: 11159162401B	Sample number(s): 6302754-6302755,6302759,6302767 BKG: P302800								
Moisture Content by 160.3						12.7	13.7	7	20
Batch number: 11167162402A	Sample number(s): 6302747-6302751,6302756-6302758,6302760-6302766,6302768-6302769 BKG: 6302747								
28a Moisture Content by 160.3						12.3	12.4	1	20
Moisture Content by 160.3						12.3	12.4	1	20
Moisture Content by 160.3						12.3	12.4	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111572AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6302747	105	110	99	96
6302748	100	95	104	100
6302749	101	97	103	101
6302751	103	102	99	94
Blank	104	105	98	94
LCS	102	101	102	102
MS	100	95	104	100
MSD	101	97	103	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111531BA

	Toluene-d8
6302747	95
6302748	95
6302749	94

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

6302751	95
Blank	95
LCS	95
LCSD	95
MS	95
MSD	94
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111571AA

	Toluene-d8
6302752	97
6302753	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111531AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6302752	107	102	98	98
6302753	111	103	100	98
Blank	107	104	100	98
LCS	107	101	104	105
LCSD	105	103	101	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11153SLD026

	N-Nitrosodimethylamine-d6
6302747	89
6302748	93
6302749	86
6302751	121
6302756	1473*
6302757	1367*
6302758	1166*
6302760	989*
6302761	1083*
6302762	1044*
6302763	1033*
6302764	955*
6302765	1004*
6302766	1010*
6302767	1039*
6302768	1021*
6302769	969*
Blank	121
LCS	132

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

MS	93		
MSD	86		
Limits:	50-150		

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11153WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6302752	116	93	119
6302770	103	91	86
Blank	105	99	77
LCS	97	83	90
LCSD	108	102	99
Limits:	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11153WAI026

	N-Nitrosodimethylamine-d6
6302770	156*
Blank	138
LCS	119
LCSD	145
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11154SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6302747	94	85	101
6302748	92	82	97
6302749	95	83	102
6302751	93	84	102
6302754	96	84	97
6302755	102	87	121
6302756	97	86	110
6302757	97	87	118
6302758	100	90	132
6302759	97	85	158*
6302760	100	87	94
6302761	103	92	98
6302762	107	98	106
6302763	97	88	101
6302764	99	89	101
6302765	98	88	97
6302766	97	86	94
6302767	93	85	91
6302768	92	84	91
6302769	98	90	98
Blank	91	84	102
LCS	96	87	102
MS	92	82	97
MSD	95	83	102

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

Limits:	40-130	45-130	45-135			

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11155WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6302752	49	32	83	74	79	77
6302770	51	35	84	82	85	81
Blank	56	41	92	81	84	79
LCS	60	41	88	85	90	86
LCSD	63	43	91	89	91	90
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11157SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6302747	77	78	76	71	69	86
6302748	89	93	91	89	89	87
6302749	89	94	90	87	87	84
6302751	80	82	84	79	79	84
6302754	88	88	84	82	85	81
6302755	83	85	70	80	82	84
6302756	84	87	79	84	86	80
6302757	86	89	84	84	90	77
6302758	80	82	75	78	81	79
6302759	81	84	76	80	81	78
6302760	89	90	87	84	88	88
6302761	94	95	79	83	89	90
6302762	87	89	81	81	88	86
6302763	89	91	83	83	89	89
6302764	84	87	76	80	83	83
6302765	89	90	90	86	83	87
6302766	89	90	86	86	88	87
6302767	88	89	86	86	89	86
6302768	89	94	89	90	93	83
6302769	87	91	81	90	92	80
Blank	82	87	90	85	87	84
LCS	88	91	95	91	92	87
MS	89	93	91	89	89	87
MSD	89	94	90	87	87	84
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11151B34B

	Trifluorotoluene-F
6302747	72
6302748	74
6302749	74
6302751	71
Blank	77
LCS	79
LCSD	87

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

MS 74
MSD 74

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11157A20A

	Trifluorotoluene-F
6302753	73
Blank	72
LCS	104
LCSD	101

Limits: 63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111520020A

	Butyraldehyde
6302770	108
Blank	85
LCS	88
LCSD	87

Limits: 45-145

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111540002A

	2,4-Dichlorophenylacetic acid
6302752	82
6302770	90
Blank	86
LCS	93
LCSD	102

Limits: 35-144

Analysis Name: 12a Pesticides by 8081A
Batch number: 111540012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6302754	87	82
6302755	80	109
6302756	64	53
6302757	75	147*
6302758	80	140*
6302759	87	126*
6302760	69	128*
6302761	75	95
6302762	79	0*
6302763	84	110
6302764	83	106
6302765	90	123*
6302766	89	137*

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

6302767	87	103
6302768	67	240*
6302769	83	118
Blank	84	106
LCS	87	106
MS	76	89
MSD	61	57
Limits:	50-130	20-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111570003A

	Butyraldehyde
6302747	138*
6302748	135*
6302749	135*
6302756	143*
6302757	130*
6302762	135*
6302763	129*
6302764	124
6302765	130*
6302766	141*
6302768	130*
6302769	116
Blank	134*
LCS	115
MS	135*
MSD	135*
Limits:	64-126

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111570004A

	Butyraldehyde
6302751	135*
6302758	138*
6302760	150*
6302761	141*
Blank	142*
LCS	135*
MS	140*
MSD	143*
Limits:	64-126

Analysis Name: 12b Pesticides by 8081A
Batch number: 111570020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6302752	111	113
6302770	111	115
Blank	105	95
LCS	105	108
LCSD	107	86

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111570021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6302752	117	95
6302770	115	97
Blank	125	97
LCS	112	78
LCSD	110	82
Limits:	30-150	45-120

Analysis Name: 16b Energetics by 8330A
Batch number: 111580002A

	2-Nitro-m-xylene
6302770	103
Blank	106
LCS	104
LCSD	107
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111580007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6302747	88	105
6302748	100	116
6302749	90	109
6302751	69	118
6302754	90	79
6302755	520*	495*
6302756	94	111
6302757	109	102
6302758	95	96
6302759	101	108
6302760	100	88
6302761	106	105
6302762	108	125*
6302763	105	78
6302764	99	117
6302765	106	111
6302766	105	113
6302767	111	119
6302768	92	106
6302769	105	111
Blank	82	109
LCS	96	113
LCSD	95	111
MS	100	116
MSD	90	109
Limits:	53-139	45-120

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

Analysis Name: 16a Energetics by 8330A
Batch number: 111580011A

	2-Nitro-m-xylene
6302747	113
6302748	130
6302749	129
6302751	115
6302756	121
6302757	122
6302758	123
6302760	114
6302761	118
6302762	117
6302763	113
6302764	108
6302765	120
6302766	114
6302768	111
6302769	117
Blank	121
LCS	117
LCSD	123
MS	130
MSD	129
Limits:	80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111580024A

	2,4-Dichlorophenylacetic acid
6302754	58
6302755	69
6302756	73
6302757	80
6302758	80
6302759	62
6302760	76
6302761	79
6302762	78
6302763	74
6302764	62
6302765	72
6302766	65
6302767	67
6302768	70
6302769	75
Blank	86
LCS	87
MS	76
MSD	79
Limits:	36-156

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

Analysis Name: 19a Alcohols by 8015B
Batch number: 111520021A

	Acetone
6302747	75
6302748	74
6302749	76
6302751	73
6302756	70
6302757	73
6302758	76
6302760	72
6302761	72
6302762	75
6302763	74
6302764	73
6302765	72
6302766	71
6302768	74
6302769	73
Blank	87
LCS	86
MS	74
MSD	76
Limits:	42-138

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111530008A

	n-Triacontane-d62
6302770	90
Blank	87
LCS	85
LCSD	73
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111530009A

	Tetramethylene glycol
6302770	104
Blank	102
LCS	110
LCSD	106
Limits:	77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111530020A

	Tetramethylene glycol
6302747	73
6302748	80
6302749	79
6302751	73

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

6302756	79
6302757	80
6302758	80
6302760	82
6302761	83
6302762	89
6302763	85
6302764	86
6302765	93
6302766	88
6302768	89
6302769	86
Blank	86
LCS	93
MS	80
MSD	79
Limits:	29-137

Analysis Name: 19b Alcohols by 8015B
Batch number: 111530034A

	Acetone
6302770	86
Blank	97
LCS	97
MS	86
MSD	86
Limits:	54-147

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111580017A

	Chlorobenzene	Orthoterphenyl
6302770	86	95
Blank	85	92
LCS	85	103
LCSD	82	98
Limits:	28-152	52-131

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111580027A

	Chlorobenzene	Orthoterphenyl
6302747	84	101
6302748	92	109
6302749	94	112
6302751	84	107
6302756	95	112
6302757	95	116
6302758	68	107
6302760	75	106
6302761	94	111
6302762	89	109
6302763	90	112

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249333
Reported: 07/01/11 at 01:59 PM

Surrogate Quality Control

6302764	86	107
6302765	88	105
6302766	98	119
6302768	86	118
6302769	90	107
Blank	92	108
LCS	103	117
MS	92	109
MSD	94	112
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111590035A

	n-Triacontane-d62
6302747	92
6302748	91
6302749	91
6302751	90
6302756	89
6302757	89
6302758	94
6302760	89
6302761	88
6302762	109
6302763	75
6302764	73
6302765	126
6302766	103
6302768	118
6302769	79
Blank	97
LCS	97
MS	91
MSD	91
Limits:	50-150

*- Outside of specification
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Acct #13013 LC# 6302747-70 GR# 1249335

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0840	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-SS sleeve			X	X																	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	1-SS sleeve			X	X																	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	1-SS sleeve			X	X																	
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-SS sleeve			X	X																	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	1-SS sleeve			X	X																	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	1-SS sleeve			X	X																	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	1-SS sleeve			X	X																	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	1-SS sleeve			X	X																	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	1-SS sleeve			X	X																	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	* ~~1-16 oz jar~~ 2-16 oz jars	X	X	X	X	X	X	X	X		X	X				X							
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	* ~~2-16 oz jars~~ 1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/31/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	6/1/11 0925	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

* Sample containers received updated - mrg 6/1/11

Add'l #13013 LC# 6302747-70 GR# 1249333

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpheriyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-008-SA5DN-SB-4.5	5/31/11	1540	SOIL	NONE	4-Encores										X	X											
SL-008-SA5DN-SB-4.0-5.0	5/31/11	1544	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-008-SA5DN-SB-9.0-10.0	5/31/11	1549	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-010-SA5DN-SB-4.5	5/31/11	1419	SOIL	NONE	4-Encores										X	X											
SL-010-SA5DN-SB-4.0-5.0	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-010-SA5DN-SB-9.0-10.0	5/31/11	1431	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
DUP-10-SA5DN-QC-053111	5/31/11	1145	SOIL	NONE	5-Encores										X	X	X										
DUP-10-SA5DN-QC-053111	5/31/11	1145	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-013-SA5DN-SB-4.5	5/31/11	1007	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-4.0-5.0	5/31/11	1011	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-013-SA5DN-SB-9.5	5/31/11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-9.0-10.0	5/31/11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-014-SA5DN-SB-4.5MS	5/31/11	1135	SOIL	NONE	15-Encores										X	X	X										
SL-014-SA5DN-SB-4.0-5.0MS	5/31/11	1140	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-014-SA5DN-SB-9.5	5/31/11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-014-SA5DN-SB-9.0-10.0	5/31/11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD sample
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	5-1 L ambers			X	X	X																	
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	1-500 mL poly		X				X	X	X														
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	HNO3	1-500 mL poly	X																					
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	6-40 mL vials										X	X											
TB-053111	5/31/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/31/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	6/1/11 0956	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

AOC#13013 LL#630274-70 GR#1249333

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-121-SA5DN-SS-0.0-0.5	5/31/11	1040	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-121-SA5DN-SS-0.0-0.5	5/31/11	1040	SOIL	NONE	1-SS sleeve			X	X																	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	1-SS sleeve			X	X																	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	12-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HNO3	1-500 mL poly	X																				
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	1-500 mL poly		X				X	X	X													
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NaOH	1-500 mL glass																	X				
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	None	1-250 mL glass														X							
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HCl	2-40 mL vial																				X	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	4-40 mL vial													X						X		

Relinquished by: (*Signature*) | Date/Time: 05/31/2011 / 1700 | Received for Laboratory by: (*Signature*)

Received by: (*Signature*) | Date/Time: 0935

Airbill No.(s)
8695 1442 0968; 8695 1441 0979
8695 1441 0980; 8695 1441 0990
8695 1441 1004; 8695 1441 1015

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/01/2011
Group Number: 1249336
SDG: DX095
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-014-SA5DN-SB-4.0-5.0 Soil	6302775
SL-014-SA5DN-SB-4.0-5.0MS Soil	6302776
SL-014-SA5DN-SB-4.0-5.0MSD Soil	6302777
SL-014-SA5DN-SB-9.0-10.0 Soil	6302778
EB11-SA5DN-SB-053111 Water	6302779
SL-094-SA5DN-SS-0.0-0.5 Soil	6302780
SL-095-SA5DN-SS-0.0-0.5 Soil	6302781
SL-097-SA5DN-SS-0.0-0.5 Soil	6302782
SL-098-SA5DN-SS-0.0-0.5 Soil	6302783
SL-099-SA5DN-SS-0.0-0.5 Soil	6302784
SL-101-SA5DN-SS-0.0-0.5 Soil	6302785
SL-102-SA5DN-SS-0.0-0.5 Soil	6302786
SL-103-SA5DN-SS-0.0-0.5 Soil	6302787
SL-104-SA5DN-SS-0.0-0.5 Soil	6302788
SL-110-SA5DN-SS-0.0-0.5 Soil	6302789
SL-111-SA5DN-SS-0.0-0.5 Soil	6302790
SL-112-SA5DN-SS-0.0-0.5 Soil	6302791
SL-113-SA5DN-SS-0.0-0.5 Soil	6302792
SL-114-SA5DN-SS-0.0-0.5 Soil	6302793
SL-121-SA5DN-SS-0.0-0.5 Soil	6302794
SL-125-SA5DN-SS-0.0-0.5 Soil	6302795
EB10-SA5DN-SS-053111 Water	6302796

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302775
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302775
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0223 JB	0.0201	1.12	1
11031	12378-PeCDD	40321-76-4	0.0696 JB	0.0225	5.58	1
11031	123478-HxCDD	39227-28-6	0.0832 JBQ	0.0180	5.58	1
11031	123678-HxCDD	57653-85-7	0.102 JBQ	0.0179	5.58	1
11031	123789-HxCDD	19408-74-3	0.0975 JB	0.0180	5.58	1
11031	1234678-HpCDD	35822-46-9	0.723 JB	0.0241	5.58	1
11031	OCDD	3268-87-9	5.37 JB	0.0252	11.2	1
11031	2378-TCDF	51207-31-9	0.0194 U	0.0194	1.12	1
11031	12378-PeCDF	57117-41-6	0.0708 JBQ	0.0117	5.58	1
11031	23478-PeCDF	57117-31-4	0.117 JBQ	0.0120	5.58	1
11031	123478-HxCDF	70648-26-9	0.0121 U	0.0121	5.58	1
11031	123678-HxCDF	57117-44-9	0.0759 JBQ	0.0107	5.58	1
11031	123789-HxCDF	72918-21-9	0.106 JB	0.0139	5.58	1
11031	234678-HxCDF	60851-34-5	0.0768 JBQ	0.0116	5.58	1
11031	1234678-HpCDF	67562-39-4	0.118 JB	0.0119	5.58	1
11031	1234789-HpCDF	55673-89-7	0.132 JB	0.0185	5.58	1
11031	OCDF	39001-02-0	0.385 JB	0.0271	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302775
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302775
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 09:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302776
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302776
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.1	B	0.0227	1.10	1
11031	12378-PeCDD	40321-76-4	102	B	0.0311	5.48	1
11031	123478-HxCDD	39227-28-6	104	B	0.0295	5.48	1
11031	123678-HxCDD	57653-85-7	103	B	0.0309	5.48	1
11031	123789-HxCDD	19408-74-3	103	B	0.0311	5.48	1
11031	1234678-HpCDD	35822-46-9	95.4	B	0.0338	5.48	1
11031	OCDD	3268-87-9	198	B	0.0343	11.0	1
11031	2378-TCDF	51207-31-9	20.8	B	0.0294	1.10	1
11031	12378-PeCDF	57117-41-6	103	B	0.0190	5.48	1
11031	23478-PeCDF	57117-31-4	101	B	0.0187	5.48	1
11031	123478-HxCDF	70648-26-9	100	B	0.0438	5.48	1
11031	123678-HxCDF	57117-44-9	105	B	0.0392	5.48	1
11031	123789-HxCDF	72918-21-9	98.6	B	0.0528	5.48	1
11031	234678-HxCDF	60851-34-5	102	B	0.0401	5.48	1
11031	1234678-HpCDF	67562-39-4	94.1	B	0.0336	5.48	1
11031	1234789-HpCDF	55673-89-7	96.2	B	0.0566	5.48	1
11031	OCDF	39001-02-0	195	B	0.0424	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-014-SA5DN-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302776
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302776
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 10:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302777
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302777
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.7	B	0.0270	1.10	1
11031	12378-PeCDD	40321-76-4	105	B	0.0352	5.49	1
11031	123478-HxCDD	39227-28-6	104	B	0.0316	5.49	1
11031	123678-HxCDD	57653-85-7	106	B	0.0319	5.49	1
11031	123789-HxCDD	19408-74-3	99.5	B	0.0296	5.49	1
11031	1234678-HpCDD	35822-46-9	97.7	B	0.0388	5.49	1
11031	OCDD	3268-87-9	203	B	0.0383	11.0	1
11031	2378-TCDF	51207-31-9	19.9	B	0.0287	1.10	1
11031	12378-PeCDF	57117-41-6	101	B	0.0203	5.49	1
11031	23478-PeCDF	57117-31-4	98.0	B	0.0189	5.49	1
11031	123478-HxCDF	70648-26-9	102	B	0.0482	5.49	1
11031	123678-HxCDF	57117-44-9	101	B	0.0445	5.49	1
11031	123789-HxCDF	72918-21-9	100	B	0.0544	5.49	1
11031	234678-HxCDF	60851-34-5	104	B	0.0441	5.49	1
11031	1234678-HpCDF	67562-39-4	99.1	B	0.0390	5.49	1
11031	1234789-HpCDF	55673-89-7	99.7	B	0.0631	5.49	1
11031	OCDF	39001-02-0	195	B	0.0388	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-014-SA5DN-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302777
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302777
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0144 SDG#: DX095-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 11:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302778
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0149 SDG#: DX095-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302778
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0149 SDG#: DX095-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.449	JB	0.322	1.15	1
11031	12378-PeCDD	40321-76-4	1.82	JB	0.368	5.75	1
11031	123478-HxCDD	39227-28-6	1.88	JB	0.315	5.75	1
11031	123678-HxCDD	57653-85-7	1.84	JB	0.326	5.75	1
11031	123789-HxCDD	19408-74-3	1.86	JB	0.351	5.75	1
11031	1234678-HpCDD	35822-46-9	2.57	JB	0.438	5.75	1
11031	OCDD	3268-87-9	5.43	JB	0.589	11.5	1
11031	2378-TCDF	51207-31-9	0.343	JBQ	0.337	1.15	1
11031	12378-PeCDF	57117-41-6	1.42	JB	0.172	5.75	1
11031	23478-PeCDF	57117-31-4	1.58	JB	0.183	5.75	1
11031	123478-HxCDF	70648-26-9	1.60	JBQ	0.264	5.75	1
11031	123678-HxCDF	57117-44-9	1.73	JBQ	0.224	5.75	1
11031	123789-HxCDF	72918-21-9	2.26	JBQ	0.356	5.75	1
11031	234678-HxCDF	60851-34-5	1.45	JBQ	0.237	5.75	1
11031	1234678-HpCDF	67562-39-4	1.80	JBQ	0.192	5.75	1
11031	1234789-HpCDF	55673-89-7	2.83	JB	0.383	5.75	1
11031	OCDF	39001-02-0	5.90	JB	0.774	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	39	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-014-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302778
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0149 SDG#: DX095-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302778
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:55

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0149 SDG#: DX095-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 12:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11167162402A	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302779
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X11EB SDG#: DX095-03EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.249	U	0.249	2.07	1
10915	12378-PeCDD	40321-76-4	0.315	JB	0.257	10.3	1
10915	123478-HxCDD	39227-28-6	0.347	JBQ	0.202	10.3	1
10915	123678-HxCDD	57653-85-7	0.346	JBQ	0.221	10.3	1
10915	123789-HxCDD	19408-74-3	0.448	JBQ	0.205	10.3	1
10915	1234678-HpCDD	35822-46-9	2.31	JBQ	0.317	10.3	1
10915	OCDD	3268-87-9	6.43	JB	0.326	20.7	1
10915	2378-TCDF	51207-31-9	0.247	U	0.247	2.07	1
10915	12378-PeCDF	57117-41-6	0.368	JB	0.164	10.3	1
10915	23478-PeCDF	57117-31-4	0.841	JBQ	0.153	10.3	1
10915	123478-HxCDF	70648-26-9	0.656	JB	0.197	10.3	1
10915	123678-HxCDF	57117-44-9	0.656	JBQ	0.189	10.3	1
10915	123789-HxCDF	72918-21-9	0.833	JB	0.164	10.3	1
10915	234678-HxCDF	60851-34-5	0.601	JB	0.150	10.3	1
10915	1234678-HpCDF	67562-39-4	1.67	JBQ	0.144	10.3	1
10915	1234789-HpCDF	55673-89-7	0.454	JB	0.156	10.3	1
10915	OCDF	39001-02-0	2.24	JB	0.441	20.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	54	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	48	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB11-SA5DN-SB-053111 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5DN-SB-053111

LLI Sample # WW 6302779
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:50

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X11EB SDG#: DX095-03EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11154001	06/07/2011 18:54	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11154001	06/03/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302780
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9400 SDG#: DX095-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302780
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9400 SDG#: DX095-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0369	JB	0.0203	1.08	1
11031	12378-PeCDD	40321-76-4	0.411	JB	0.0386	5.42	1
11031	123478-HxCDD	39227-28-6	0.469	JBQ	0.0345	5.42	1
11031	123678-HxCDD	57653-85-7	2.25	JB	0.0357	5.42	1
11031	123789-HxCDD	19408-74-3	1.60	JB	0.0346	5.42	1
11031	1234678-HpCDD	35822-46-9	54.7	B	0.0710	5.42	1
11031	OCDD	3268-87-9	882	B	0.0692	10.8	1
11031	2378-TCDF	51207-31-9	0.0555	U	0.0555	1.08	1
11031	12378-PeCDF	57117-41-6	0.830	JB	0.0323	5.42	1
11031	23478-PeCDF	57117-31-4	0.891	JB	0.0297	5.42	1
11031	123478-HxCDF	70648-26-9	0.661	JB	0.0285	5.42	1
11031	123678-HxCDF	57117-44-9	0.422	JBQ	0.0253	5.42	1
11031	123789-HxCDF	72918-21-9	1.01	JB	0.0245	5.42	1
11031	234678-HxCDF	60851-34-5	0.601	JB	0.0252	5.42	1
11031	1234678-HpCDF	67562-39-4	4.64	JB	0.0210	5.42	1
11031	1234789-HpCDF	55673-89-7	0.376	JB	0.0269	5.42	1
11031	OCDF	39001-02-0	18.8	B	0.0280	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-094-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302780
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9400 SDG#: DX095-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-094-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-094-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302780
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 08:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9400 SDG#: DX095-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 13:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302781
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9500 SDG#: DX095-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302781
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9500 SDG#: DX095-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0720	JBQ	0.0289	1.06	1
11031	12378-PeCDD	40321-76-4	0.417	JB	0.0497	5.31	1
11031	123478-HxCDD	39227-28-6	0.556	JB	0.0459	5.31	1
11031	123678-HxCDD	57653-85-7	2.15	JB	0.0488	5.31	1
11031	123789-HxCDD	19408-74-3	1.64	JB	0.0467	5.31	1
11031	1234678-HpCDD	35822-46-9	57.5	B	0.0794	5.31	1
11031	OCDD	3268-87-9	831	B	0.107	10.6	1
11031	2378-TCDF	51207-31-9	0.0970	U	0.0970	1.06	1
11031	12378-PeCDF	57117-41-6	0.499	JBQ	0.0447	5.31	1
11031	23478-PeCDF	57117-31-4	0.860	JB	0.0412	5.31	1
11031	123478-HxCDF	70648-26-9	0.599	JB	0.0358	5.31	1
11031	123678-HxCDF	57117-44-9	0.463	JB	0.0350	5.31	1
11031	123789-HxCDF	72918-21-9	0.768	JB	0.0326	5.31	1
11031	234678-HxCDF	60851-34-5	0.551	JB	0.0348	5.31	1
11031	1234678-HpCDF	67562-39-4	6.99	B	0.0348	5.31	1
11031	1234789-HpCDF	55673-89-7	0.635	JB	0.0446	5.31	1
11031	OCDF	39001-02-0	31.0	B	0.0372	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	80	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-095-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302781
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9500 SDG#: DX095-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-095-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-095-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302781
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9500 SDG#: DX095-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 14:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-097-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302782
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9700 SDG#: DX095-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-097-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302782
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9700 SDG#: DX095-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0808	JBQ	0.0315	1.12	1
11031	12378-PeCDD	40321-76-4	0.398	JBQ	0.0634	5.59	1
11031	123478-HxCDD	39227-28-6	0.782	JB	0.0614	5.59	1
11031	123678-HxCDD	57653-85-7	3.77	JB	0.0623	5.59	1
11031	123789-HxCDD	19408-74-3	2.20	JB	0.0622	5.59	1
11031	1234678-HpCDD	35822-46-9	117	B	0.135	5.59	1
11031	OCDD	3268-87-9	1,760	B	0.114	11.2	1
11031	2378-TCDF	51207-31-9	0.339	JBQ	0.103	1.12	1
11031	12378-PeCDF	57117-41-6	0.862	JB	0.0539	5.59	1
11031	23478-PeCDF	57117-31-4	0.882	JB	0.0515	5.59	1
11031	123478-HxCDF	70648-26-9	1.05	JB	0.0557	5.59	1
11031	123678-HxCDF	57117-44-9	0.538	JB	0.0549	5.59	1
11031	123789-HxCDF	72918-21-9	1.12	JB	0.0597	5.59	1
11031	234678-HxCDF	60851-34-5	0.597	JB	0.0519	5.59	1
11031	1234678-HpCDF	67562-39-4	9.26	B	0.0405	5.59	1
11031	1234789-HpCDF	55673-89-7	0.753	JB	0.0531	5.59	1
11031	OCDF	39001-02-0	35.0	B	0.0348	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	116	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	101	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-097-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302782
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9700 SDG#: DX095-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-097-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302782
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9700 SDG#: DX095-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 21:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302783
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9800 SDG#: DX095-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302783
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9800 SDG#: DX095-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.266 JBQ	0.0244	1.11	1
11031	12378-PeCDD	40321-76-4	2.45 JB	0.0548	5.55	1
11031	123478-HxCDD	39227-28-6	4.03 JB	0.0678	5.55	1
11031	123678-HxCDD	57653-85-7	24.8 B	0.0674	5.55	1
11031	123789-HxCDD	19408-74-3	9.29 B	0.0651	5.55	1
11031	1234678-HpCDD	35822-46-9	824 B	0.196	5.55	1
11031	OCDD	3268-87-9	12,600 EB	0.189	11.1	1
11031	2378-TCDF	51207-31-9	0.527 JB	0.0915	1.11	1
11031	12378-PeCDF	57117-41-6	1.48 JB	0.0469	5.55	1
11031	23478-PeCDF	57117-31-4	2.09 JB	0.0454	5.55	1
11031	123478-HxCDF	70648-26-9	3.71 JB	0.0591	5.55	1
11031	123678-HxCDF	57117-44-9	2.00 JB	0.0570	5.55	1
11031	123789-HxCDF	72918-21-9	1.75 JB	0.0600	5.55	1
11031	234678-HxCDF	60851-34-5	2.59 JB	0.0583	5.55	1
11031	1234678-HpCDF	67562-39-4	101 B	0.0728	5.55	1
11031	1234789-HpCDF	55673-89-7	5.40 JB	0.0960	5.55	1
11031	OCDF	39001-02-0	588 B	0.0567	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	114	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	84	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302783
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9800 SDG#: DX095-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	88	17 - 157
13C12-1278-TCDD (CRS)	105	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-098-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302783
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 09:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9800 SDG#: DX095-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 22:36	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Analysis Report

Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302784
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9900 SDG#: DX095-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302784
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9900 SDG#: DX095-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.256	JBQ	0.0274	1.02	1
11031	12378-PeCDD	40321-76-4	2.04	JB	0.0627	5.11	1
11031	123478-HxCDD	39227-28-6	3.05	JB	0.0673	5.11	1
11031	123678-HxCDD	57653-85-7	15.5	B	0.0684	5.11	1
11031	123789-HxCDD	19408-74-3	7.11	B	0.0689	5.11	1
11031	1234678-HpCDD	35822-46-9	488	B	0.194	5.11	1
11031	OCDD	3268-87-9	8,970	EB	0.196	10.2	1
11031	2378-TCDF	51207-31-9	0.580	JB	0.110	1.02	1
11031	12378-PeCDF	57117-41-6	1.59	JB	0.0507	5.11	1
11031	23478-PeCDF	57117-31-4	1.42	JB	0.0478	5.11	1
11031	123478-HxCDF	70648-26-9	2.55	JB	0.0481	5.11	1
11031	123678-HxCDF	57117-44-9	1.37	JB	0.0466	5.11	1
11031	123789-HxCDF	72918-21-9	1.31	JB	0.0515	5.11	1
11031	234678-HxCDF	60851-34-5	1.49	JB	0.0466	5.11	1
11031	1234678-HpCDF	67562-39-4	36.3	B	0.0516	5.11	1
11031	1234789-HpCDF	55673-89-7	2.26	JB	0.0669	5.11	1
11031	OCDF	39001-02-0	168	B	0.0422	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-099-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302784
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9900 SDG#: DX095-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-099-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302784
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9900 SDG#: DX095-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/17/2011 23:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Analysis Report

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302785
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1010 SDG#: DX095-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302785
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1010 SDG#: DX095-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.208	JBQ	0.0309	1.06	1
11031	12378-PeCDD	40321-76-4	1.03	JB	0.0566	5.29	1
11031	123478-HxCDD	39227-28-6	1.01	JBQ	0.0473	5.29	1
11031	123678-HxCDD	57653-85-7	2.96	JB	0.0506	5.29	1
11031	123789-HxCDD	19408-74-3	2.37	JB	0.0483	5.29	1
11031	1234678-HpCDD	35822-46-9	55.6	B	0.0693	5.29	1
11031	OCDD	3268-87-9	920	B	0.105	10.6	1
11031	2378-TCDF	51207-31-9	0.815	JB	0.103	1.06	1
11031	12378-PeCDF	57117-41-6	1.56	JB	0.0516	5.29	1
11031	23478-PeCDF	57117-31-4	1.53	JB	0.0478	5.29	1
11031	123478-HxCDF	70648-26-9	1.30	JB	0.0407	5.29	1
11031	123678-HxCDF	57117-44-9	1.18	JB	0.0400	5.29	1
11031	123789-HxCDF	72918-21-9	1.06	JB	0.0394	5.29	1
11031	234678-HxCDF	60851-34-5	0.941	JB	0.0364	5.29	1
11031	1234678-HpCDF	67562-39-4	5.98	B	0.0335	5.29	1
11031	1234789-HpCDF	55673-89-7	0.642	JB	0.0387	5.29	1
11031	OCDF	39001-02-0	17.1	B	0.0393	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	98	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302785
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1010 SDG#: DX095-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302785
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:30

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1010 SDG#: DX095-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 00:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302786
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1020 SDG#: DX095-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302786
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1020 SDG#: DX095-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.209	JB	0.0295	1.10	1
11031	12378-PeCDD	40321-76-4	2.04	JB	0.0543	5.48	1
11031	123478-HxCDD	39227-28-6	3.21	JB	0.0709	5.48	1
11031	123678-HxCDD	57653-85-7	15.4	B	0.0749	5.48	1
11031	123789-HxCDD	19408-74-3	7.60	B	0.0717	5.48	1
11031	1234678-HpCDD	35822-46-9	509	B	0.203	5.48	1
11031	OCDD	3268-87-9	8,510	EB	0.195	11.0	1
11031	2378-TCDF	51207-31-9	0.373	JB	0.0685	1.10	1
11031	12378-PeCDF	57117-41-6	0.523	JB	0.0395	5.48	1
11031	23478-PeCDF	57117-31-4	0.991	JB	0.0377	5.48	1
11031	123478-HxCDF	70648-26-9	2.43	JB	0.0508	5.48	1
11031	123678-HxCDF	57117-44-9	1.22	JB	0.0481	5.48	1
11031	123789-HxCDF	72918-21-9	1.09	JB	0.0552	5.48	1
11031	234678-HxCDF	60851-34-5	1.37	JB	0.0473	5.48	1
11031	1234678-HpCDF	67562-39-4	38.3	B	0.0593	5.48	1
11031	1234789-HpCDF	55673-89-7	2.41	JB	0.0808	5.48	1
11031	OCDF	39001-02-0	191	B	0.0717	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302786
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1020 SDG#: DX095-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302786
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:20

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1020 SDG#: DX095-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 01:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302787
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1030 SDG#: DX095-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302787
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1030 SDG#: DX095-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.130	JB	0.0267	1.06	1
11031	12378-PeCDD	40321-76-4	1.43	JB	0.0566	5.28	1
11031	123478-HxCDD	39227-28-6	2.03	JB	0.0653	5.28	1
11031	123678-HxCDD	57653-85-7	12.7	B	0.0671	5.28	1
11031	123789-HxCDD	19408-74-3	4.89	JB	0.0641	5.28	1
11031	1234678-HpCDD	35822-46-9	412	B	0.159	5.28	1
11031	OCDD	3268-87-9	6,190	EB	0.194	10.6	1
11031	2378-TCDF	51207-31-9	0.464	JBQ	0.0904	1.06	1
11031	12378-PeCDF	57117-41-6	0.480	JB	0.0443	5.28	1
11031	23478-PeCDF	57117-31-4	1.04	JB	0.0421	5.28	1
11031	123478-HxCDF	70648-26-9	2.32	JB	0.0530	5.28	1
11031	123678-HxCDF	57117-44-9	1.24	JB	0.0514	5.28	1
11031	123789-HxCDF	72918-21-9	1.24	JB	0.0589	5.28	1
11031	234678-HxCDF	60851-34-5	1.37	JB	0.0521	5.28	1
11031	1234678-HpCDF	67562-39-4	28.8	B	0.0509	5.28	1
11031	1234789-HpCDF	55673-89-7	2.21	JB	0.0658	5.28	1
11031	OCDF	39001-02-0	132	B	0.0560	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302787
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1030 SDG#: DX095-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302787
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:05

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1030 SDG#: DX095-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 02:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

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Analysis Report

Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302788
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1040 SDG#: DX095-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302788
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1040 SDG#: DX095-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0383	JB	0.0270	1.06	1
11031	12378-PeCDD	40321-76-4	0.429	JB	0.0533	5.28	1
11031	123478-HxCDD	39227-28-6	0.725	JB	0.0701	5.28	1
11031	123678-HxCDD	57653-85-7	4.88	JB	0.0702	5.28	1
11031	123789-HxCDD	19408-74-3	2.46	JB	0.0679	5.28	1
11031	1234678-HpCDD	35822-46-9	145	B	0.116	5.28	1
11031	OCDD	3268-87-9	2,460	B	0.120	10.6	1
11031	2378-TCDF	51207-31-9	0.414	JB	0.115	1.06	1
11031	12378-PeCDF	57117-41-6	0.690	JB	0.0467	5.28	1
11031	23478-PeCDF	57117-31-4	0.712	JB	0.0448	5.28	1
11031	123478-HxCDF	70648-26-9	0.867	JB	0.0486	5.28	1
11031	123678-HxCDF	57117-44-9	0.570	JB	0.0491	5.28	1
11031	123789-HxCDF	72918-21-9	0.839	JB	0.0543	5.28	1
11031	234678-HxCDF	60851-34-5	0.702	JB	0.0467	5.28	1
11031	1234678-HpCDF	67562-39-4	12.0	B	0.0483	5.28	1
11031	1234789-HpCDF	55673-89-7	1.04	JB	0.0632	5.28	1
11031	OCDF	39001-02-0	46.4	B	0.0577	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302788
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1040 SDG#: DX095-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302788
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1040 SDG#: DX095-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 03:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302789
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX095-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302789
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX095-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0819	JB	0.0314	1.09	1
11031	12378-PeCDD	40321-76-4	0.560	JB	0.0599	5.44	1
11031	123478-HxCDD	39227-28-6	0.702	JB	0.0717	5.44	1
11031	123678-HxCDD	57653-85-7	3.22	JB	0.0734	5.44	1
11031	123789-HxCDD	19408-74-3	2.14	JB	0.0728	5.44	1
11031	1234678-HpCDD	35822-46-9	91.0	B	0.123	5.44	1
11031	OCDD	3268-87-9	1,610	B	0.140	10.9	1
11031	2378-TCDF	51207-31-9	0.264	JB	0.0901	1.09	1
11031	12378-PeCDF	57117-41-6	0.355	JB	0.0429	5.44	1
11031	23478-PeCDF	57117-31-4	0.812	JB	0.0419	5.44	1
11031	123478-HxCDF	70648-26-9	0.643	JB	0.0465	5.44	1
11031	123678-HxCDF	57117-44-9	0.426	JB	0.0455	5.44	1
11031	123789-HxCDF	72918-21-9	1.14	JB	0.0484	5.44	1
11031	234678-HxCDF	60851-34-5	0.606	JB	0.0428	5.44	1
11031	1234678-HpCDF	67562-39-4	7.40	B	0.0571	5.44	1
11031	1234789-HpCDF	55673-89-7	0.600	JB	0.0681	5.44	1
11031	OCDF	39001-02-0	36.6	B	0.0642	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302789
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX095-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-110-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302789
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:50

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1100 SDG#: DX095-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 04:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302790
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX095-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302790
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX095-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0543	JB	0.0228	1.11	1
11031	12378-PeCDD	40321-76-4	0.443	JB	0.0465	5.53	1
11031	123478-HxCDD	39227-28-6	0.929	JB	0.0626	5.53	1
11031	123678-HxCDD	57653-85-7	6.32	B	0.0641	5.53	1
11031	123789-HxCDD	19408-74-3	2.86	JB	0.0625	5.53	1
11031	1234678-HpCDD	35822-46-9	204	B	0.141	5.53	1
11031	OCDD	3268-87-9	3,790	B	0.146	11.1	1
11031	2378-TCDF	51207-31-9	0.213	JB	0.0679	1.11	1
11031	12378-PeCDF	57117-41-6	0.337	JB	0.0339	5.53	1
11031	23478-PeCDF	57117-31-4	0.523	JB	0.0316	5.53	1
11031	123478-HxCDF	70648-26-9	1.06	JB	0.0448	5.53	1
11031	123678-HxCDF	57117-44-9	0.575	JB	0.0417	5.53	1
11031	123789-HxCDF	72918-21-9	1.25	JB	0.0467	5.53	1
11031	234678-HxCDF	60851-34-5	0.658	JB	0.0456	5.53	1
11031	1234678-HpCDF	67562-39-4	15.7	B	0.0428	5.53	1
11031	1234789-HpCDF	55673-89-7	1.02	JB	0.0621	5.53	1
11031	OCDF	39001-02-0	73.5	B	0.0436	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-111-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302790
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX095-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302790
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 13:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1110 SDG#: DX095-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 05:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302791
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1120 SDG#: DX095-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302791
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1120 SDG#: DX095-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.101	JBQ	0.0240	1.08	1
11031	12378-PeCDD	40321-76-4	0.523	JB	0.0442	5.41	1
11031	123478-HxCDD	39227-28-6	0.867	JB	0.0667	5.41	1
11031	123678-HxCDD	57653-85-7	4.29	JB	0.0697	5.41	1
11031	123789-HxCDD	19408-74-3	2.30	JB	0.0730	5.41	1
11031	1234678-HpCDD	35822-46-9	126	B	0.121	5.41	1
11031	OCDD	3268-87-9	1,950	B	0.103	10.8	1
11031	2378-TCDF	51207-31-9	0.300	JBQ	0.0871	1.08	1
11031	12378-PeCDF	57117-41-6	0.697	JB	0.0414	5.41	1
11031	23478-PeCDF	57117-31-4	0.788	JB	0.0378	5.41	1
11031	123478-HxCDF	70648-26-9	0.853	JB	0.0408	5.41	1
11031	123678-HxCDF	57117-44-9	0.595	JB	0.0377	5.41	1
11031	123789-HxCDF	72918-21-9	0.922	JB	0.0415	5.41	1
11031	234678-HxCDF	60851-34-5	0.680	JB	0.0400	5.41	1
11031	1234678-HpCDF	67562-39-4	10.2	B	0.0407	5.41	1
11031	1234789-HpCDF	55673-89-7	0.776	JB	0.0568	5.41	1
11031	OCDF	39001-02-0	42.4	B	0.0377	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-112-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302791
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1120 SDG#: DX095-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-112-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302791
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1120 SDG#: DX095-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 06:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302792
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX095-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302792
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX095-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.213	JB	0.0248	1.09	1
11031	12378-PeCDD	40321-76-4	1.37	JB	0.0719	5.47	1
11031	123478-HxCDD	39227-28-6	2.92	JB	0.0979	5.47	1
11031	123678-HxCDD	57653-85-7	16.7	B	0.102	5.47	1
11031	123789-HxCDD	19408-74-3	7.00	B	0.102	5.47	1
11031	1234678-HpCDD	35822-46-9	589	B	0.205	5.47	1
11031	OCDD	3268-87-9	9,240	EB	0.178	10.9	1
11031	2378-TCDF	51207-31-9	0.558	JB	0.0971	1.09	1
11031	12378-PeCDF	57117-41-6	1.55	JB	0.0510	5.47	1
11031	23478-PeCDF	57117-31-4	2.30	JB	0.0489	5.47	1
11031	123478-HxCDF	70648-26-9	4.78	JB	0.0600	5.47	1
11031	123678-HxCDF	57117-44-9	1.98	JB	0.0598	5.47	1
11031	123789-HxCDF	72918-21-9	2.08	JB	0.0559	5.47	1
11031	234678-HxCDF	60851-34-5	2.18	JB	0.0565	5.47	1
11031	1234678-HpCDF	67562-39-4	51.4	B	0.0523	5.47	1
11031	1234789-HpCDF	55673-89-7	3.41	JB	0.0706	5.47	1
11031	OCDF	39001-02-0	220	B	0.0441	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	108	23 - 140
13C12-OCDD	127	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	111	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	104	26 - 138
13C12-OCDF	101	17 - 157
13C12-1278-TCDD (CRS)	112	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302792
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX095-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302792
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1130 SDG#: DX095-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 10:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302793
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1140 SDG#: DX095-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302793
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1140 SDG#: DX095-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.103	JBQ	0.0294	1.04	1
11031	12378-PeCDD	40321-76-4	0.393	JB	0.0429	5.22	1
11031	123478-HxCDD	39227-28-6	0.414	JB	0.0624	5.22	1
11031	123678-HxCDD	57653-85-7	1.53	JB	0.0632	5.22	1
11031	123789-HxCDD	19408-74-3	1.26	JB	0.0617	5.22	1
11031	1234678-HpCDD	35822-46-9	29.8	B	0.0791	5.22	1
11031	OCDD	3268-87-9	455	B	0.0996	10.4	1
11031	2378-TCDF	51207-31-9	0.320	JB	0.0783	1.04	1
11031	12378-PeCDF	57117-41-6	0.479	JB	0.0464	5.22	1
11031	23478-PeCDF	57117-31-4	0.594	JB	0.0400	5.22	1
11031	123478-HxCDF	70648-26-9	0.558	JB	0.0364	5.22	1
11031	123678-HxCDF	57117-44-9	0.393	JB	0.0369	5.22	1
11031	123789-HxCDF	72918-21-9	0.760	JB	0.0365	5.22	1
11031	234678-HxCDF	60851-34-5	0.346	JB	0.0347	5.22	1
11031	1234678-HpCDF	67562-39-4	3.43	JB	0.0334	5.22	1
11031	1234789-HpCDF	55673-89-7	0.368	JB	0.0420	5.22	1
11031	OCDF	39001-02-0	16.1	B	0.0364	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-114-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302793
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1140 SDG#: DX095-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-114-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-114-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302793
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:10

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1140 SDG#: DX095-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 11:05	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302794
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX095-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302794
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX095-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.255	JB	0.0315	1.06	1
11031	12378-PeCDD	40321-76-4	1.63	JB	0.0764	5.32	1
11031	123478-HxCDD	39227-28-6	2.95	JB	0.0866	5.32	1
11031	123678-HxCDD	57653-85-7	12.0	B	0.0909	5.32	1
11031	123789-HxCDD	19408-74-3	6.78	B	0.0862	5.32	1
11031	1234678-HpCDD	35822-46-9	399	B	0.159	5.32	1
11031	OCDD	3268-87-9	6,220	EB	0.151	10.6	1
11031	2378-TCDF	51207-31-9	1.03	JB	0.140	1.06	1
11031	12378-PeCDF	57117-41-6	2.39	JB	0.0651	5.32	1
11031	23478-PeCDF	57117-31-4	2.76	JB	0.0634	5.32	1
11031	123478-HxCDF	70648-26-9	1.96	JB	0.0498	5.32	1
11031	123678-HxCDF	57117-44-9	1.55	JB	0.0496	5.32	1
11031	123789-HxCDF	72918-21-9	1.12	JB	0.0505	5.32	1
11031	234678-HxCDF	60851-34-5	1.87	JB	0.0468	5.32	1
11031	1234678-HpCDF	67562-39-4	29.6	B	0.0503	5.32	1
11031	1234789-HpCDF	55673-89-7	2.08	JB	0.0600	5.32	1
11031	OCDF	39001-02-0	131	B	0.0425	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	94	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302794
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX095-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-121-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302794
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:40

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1210 SDG#: DX095-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 12:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302795
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1250 SDG#: DX095-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302795
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1250 SDG#: DX095-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.105	JB	0.0286	1.08	1
11031	12378-PeCDD	40321-76-4	0.773	JB	0.0572	5.40	1
11031	123478-HxCDD	39227-28-6	1.54	JB	0.0546	5.40	1
11031	123678-HxCDD	57653-85-7	6.66	B	0.0591	5.40	1
11031	123789-HxCDD	19408-74-3	3.86	JB	0.0544	5.40	1
11031	1234678-HpCDD	35822-46-9	206	B	0.156	5.40	1
11031	OCDD	3268-87-9	3,190	B	0.142	10.8	1
11031	2378-TCDF	51207-31-9	0.403	JB	0.0815	1.08	1
11031	12378-PeCDF	57117-41-6	0.868	JB	0.0431	5.40	1
11031	23478-PeCDF	57117-31-4	0.995	JB	0.0388	5.40	1
11031	123478-HxCDF	70648-26-9	1.07	JB	0.0462	5.40	1
11031	123678-HxCDF	57117-44-9	0.736	JB	0.0433	5.40	1
11031	123789-HxCDF	72918-21-9	1.28	JB	0.0483	5.40	1
11031	234678-HxCDF	60851-34-5	0.876	JB	0.0465	5.40	1
11031	1234678-HpCDF	67562-39-4	16.6	B	0.0448	5.40	1
11031	1234789-HpCDF	55673-89-7	1.13	JB	0.0615	5.40	1
11031	OCDF	39001-02-0	70.2	B	0.0407	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302795
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1250 SDG#: DX095-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA5DN-SS-0.0-0.5

LLI Sample # SW 6302795
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:15

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X1250 SDG#: DX095-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11164001	06/18/2011 12:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11164001	06/13/2011 15:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402A	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB10-SA5DN-SS-053111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302796
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X10EB SDG#: DX095-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.448	U	0.448	2.17	1
10915	12378-PeCDD	40321-76-4	0.444	U	0.444	10.8	1
10915	123478-HxCDD	39227-28-6	0.350	U	0.350	10.8	1
10915	123678-HxCDD	57653-85-7	0.361	U	0.361	10.8	1
10915	123789-HxCDD	19408-74-3	0.729	JBQ	0.344	10.8	1
10915	1234678-HpCDD	35822-46-9	3.37	JBQ	0.539	10.8	1
10915	OCDD	3268-87-9	8.31	JB	0.526	21.7	1
10915	2378-TCDF	51207-31-9	0.381	U	0.381	2.17	1
10915	12378-PeCDF	57117-41-6	0.707	JBQ	0.297	10.8	1
10915	23478-PeCDF	57117-31-4	0.704	JB	0.259	10.8	1
10915	123478-HxCDF	70648-26-9	1.14	JBQ	0.418	10.8	1
10915	123678-HxCDF	57117-44-9	0.974	JB	0.389	10.8	1
10915	123789-HxCDF	72918-21-9	0.344	U	0.344	10.8	1
10915	234678-HxCDF	60851-34-5	1.07	JB	0.273	10.8	1
10915	1234678-HpCDF	67562-39-4	2.34	JB	0.264	10.8	1
10915	1234789-HpCDF	55673-89-7	0.949	JB	0.261	10.8	1
10915	OCDF	39001-02-0	3.04	JB	0.731	21.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	51	25 - 164
13C12-12378-PeCDD	46	25 - 181
13C12-123478-HxCDD	43	32 - 141
13C12-123678-HxCDD	42	28 - 130
13C12-123789-HxCDD	43	28 - 130
13C12-1234678-HpCDD	38	23 - 140
13C12-OCDD	30	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	43	24 - 185
13C12-23478-PeCDF	46	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	34	26 - 123
13C12-234678-HxCDF	45	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	32	28 - 143
13C12-1234789-HpCDF	36	26 - 138
13C12-OCDF	29	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB10-SA5DN-SS-053111 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5DN-SS-053111

LLI Sample # WW 6302796
LLI Group # 1249336
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 12:15

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:04

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X10EB SDG#: DX095-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11154001	06/07/2011 19:51	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11154001	06/03/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249336
Reported: 06/22/11 at 11:04 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11159162401B	Sample number(s): 6302780-6302781,6302785,6302793								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162402A	Sample number(s): 6302775-6302778,6302782-6302784,6302786-6302792,6302794-6302795								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11154001	Sample number(s): 6302779,6302796								
2378-TCDD	0.343 J	0.294	2.00	pg/l	92		67-158		
12378-PeCDD	1.18 J	0.332	10.0	pg/l	96		70-142		
123478-HxCDD	0.888 J	0.249	10.0	pg/l	96		70-164		
123678-HxCDD	0.712 J	0.265	10.0	pg/l	99		76-134		
123789-HxCDD	1.50 J	0.250	10.0	pg/l	97		64-162		
1234678-HpCDD	3.82 J	0.318	10.0	pg/l	98		70-140		
OCDD	9.88 J	0.354	20.0	pg/l	97		78-144		
2378-TCDF	0.368 J	0.302	2.00	pg/l	97		75-158		
12378-PeCDF	0.895 J	0.188	10.0	pg/l	100		80-134		
23478-PeCDF	0.981 J	0.165	10.0	pg/l	99		68-160		
123478-HxCDF	1.05 J	0.203	10.0	pg/l	99		72-134		
123678-HxCDF	1.06 J	0.193	10.0	pg/l	98		84-130		
123789-HxCDF	1.01 J	0.198	10.0	pg/l	99		78-130		
234678-HxCDF	1.18 J	0.169	10.0	pg/l	98		70-156		
1234678-HpCDF	2.66 J	0.169	10.0	pg/l	99		82-122		
1234789-HpCDF	1.23 J	0.188	10.0	pg/l	97		78-138		
OCDF	3.74 J	0.491	20.0	pg/l	97		63-170		
Batch number: 11164001	Sample number(s): 6302775-6302778,6302780-6302795								
2378-TCDD	0.0351 J	0.0153	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0563 J	0.0182	5.00	ng/kg	93		70-142		
123478-HxCDD	0.0874 J	0.0231	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0862 J	0.0234	5.00	ng/kg	94		76-134		
123789-HxCDD	0.127 J	0.0236	5.00	ng/kg	94		64-162		
1234678-HpCDD	0.463 J	0.0262	5.00	ng/kg	94		70-140		
OCDD	1.18 J	0.0213	10.0	ng/kg	93		78-144		
2378-TCDF	0.0163 J	0.0139	1.00	ng/kg	90		75-158		
12378-PeCDF	0.0601 J	0.00950	5.00	ng/kg	95		80-134		
23478-PeCDF	0.0796 J	0.00960	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0717 J	0.0130	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0613 J	0.0113	5.00	ng/kg	93		84-130		
123789-HxCDF	0.115 J	0.0130	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0686 J	0.0119	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.111 J	0.00880	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.122 J	0.0156	5.00	ng/kg	94		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249336
Reported: 06/22/11 at 11:04 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.393 J	0.0249	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11159162401B	Sample number(s): 6302780-6302781,6302785,6302793 BKG: P302800								
Moisture Content by 160.3						12.7	13.7	7	20
Batch number: 11167162402A	Sample number(s): 6302775-6302778,6302782-6302784,6302786-6302792,6302794-6302795 BKG: P302747								
Moisture Content by 160.3						12.3	12.4	1	20
Batch number: 11164001	Sample number(s): 6302775-6302778,6302780-6302795 UNSPK: 6302775								
2378-TCDD	87	89	67-158	3	25				
12378-PeCDD	93	95	70-142	3	25				
123478-HxCDD	94	95	70-164	1	25				
123678-HxCDD	94	96	76-134	2	25				
123789-HxCDD	94	90	64-162	3	25				
1234678-HpCDD	86	88	70-140	2	25				
OCDD	88	90	78-144	2	25				
2378-TCDF	95	90	75-158	4	25				
12378-PeCDF	94	92	80-134	2	25				
23478-PeCDF	92	89	68-160	4	25				
123478-HxCDF	91	93	72-134	2	25				
123678-HxCDF	95	92	84-130	4	25				
123789-HxCDF	90	91	78-130	2	25				
234678-HxCDF	93	95	70-156	3	25				
1234678-HpCDF	86	90	82-122	5	25				
1234789-HpCDF	88	91	78-138	4	25				
OCDF	89	89	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11154001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6302779	68	63	49	51	64	66
6302796	51	46	32	34	45	44
Blank	79	73	67	67	72	74
OPR	78	77	70	72	76	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249336
Reported: 06/22/11 at 11:04 PM

Surrogate Quality Control

(CRS)

6302779	48	51	37	85	64	62
6302796	32	36	29	97	46	43
Blank	60	62	49	98	73	72
OPR	69	69	56	89	78	76
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6302779	63	65	54	39	69	63
6302796	42	43	38	30	54	43
Blank	71	74	64	51	77	72
OPR	78	77	71	58	77	75
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11164001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6302775	65	67	62	69	64	64
6302776	66	66	65	72	68	60
6302777	63	65	66	73	68	66
6302778	60	60	60	72	66	58
6302780	76	76	69	74	74	86
6302781	73	77	70	70	73	87
6302782	73	74	75	78	81	80
6302783	89	86	83	87	84	92
6302784	74	77	72	74	72	77
6302785	79	76	70	70	74	75
6302786	70	73	65	68	70	70
6302787	79	77	71	72	74	74
6302788	74	80	75	75	73	75
6302789	76	82	70	72	71	75
6302790	81	82	72	75	72	79
6302791	73	76	72	74	70	80
6302792	89	81	88	89	91	111
6302793	79	80	80	81	83	91
6302794	72	80	76	76	78	87
6302795	68	80	74	76	73	80
Blank	77	71	71	82	75	79
MS	66	66	65	72	68	60
MSD	63	65	66	73	68	66
OPR	60	64	68	74	70	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6302775	82	63	57	87	74	70
6302776	79	55	53	89	74	74
6302777	85	65	61	84	68	72
6302778	78	50	39	89	63	67
6302780	79	74	69	94	79	77

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249336
Reported: 06/22/11 at 11:04 PM

Surrogate Quality Control

6302781	80	77	80	89	79	75
6302782	94	88	101	94	78	84
6302783	101	93	88	105	93	88
6302784	81	79	73	89	79	75
6302785	72	72	56	98	78	78
6302786	69	65	57	90	78	75
6302787	75	72	62	90	81	78
6302788	86	78	73	85	86	75
6302789	78	76	71	95	81	75
6302790	86	74	69	90	84	75
6302791	80	71	67	86	78	75
6302792	112	104	101	112	85	93
6302793	90	87	78	97	80	85
6302794	83	83	78	94	84	81
6302795	86	76	71	82	87	78
Blank	103	70	64	108	79	82
MS	79	55	53	89	74	74
MSD	85	65	61	84	68	72
OPR	83	68	66	91	69	75
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6302775	74	73	79	78	59	71
6302776	74	74	77	77	57	71
6302777	72	77	79	79	59	68
6302778	72	65	59	51	53	67
6302780	77	79	81	90	73	76
6302781	76	76	86	89	69	77
6302782	87	86	96	116	73	77
6302783	90	92	106	114	84	89
6302784	75	76	89	88	71	77
6302785	75	79	78	55	76	73
6302786	73	76	77	66	70	73
6302787	78	81	83	73	71	78
6302788	76	77	89	83	74	85
6302789	75	75	83	75	71	84
6302790	77	78	84	80	77	86
6302791	72	71	78	82	73	76
6302792	93	93	108	127	85	82
6302793	86	85	94	86	75	78
6302794	79	84	92	90	77	80
6302795	76	81	86	85	72	78
Blank	83	83	90	88	68	76
MS	74	74	77	77	57	71
MSD	72	77	79	79	59	68
OPR	75	76	80	78	57	65
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Acct #13013 LL# 6302775-96 GR # 1249336

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-008-SA5DN-SB-4.5	5/31/11	1540	SOIL	NONE	4-Encores										X	X											
SL-008-SA5DN-SB-4.0-5.0	5/31/11	1544	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-008-SA5DN-SB-9.0-10.0	5/31/11	1549	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-010-SA5DN-SB-4.5	5/31/11	1419	SOIL	NONE	4-Encores										X	X											
SL-010-SA5DN-SB-4.0-5.0	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-010-SA5DN-SB-9.0-10.0	5/31/11	1431	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
DUP10-SA5DN-QC-053111	5/31/11	1445	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA5DN-QC-053111	5/31/11	1445	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X														
SL-013-SA5DN-SB-4.5	5/31/11	1007	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-4.0-5.0	5/31/11	1011	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-013-SA5DN-SB-9.5	5/31/11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-9.0-10.0	5/31/11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-014-SA5DN-SB-4.5MS	5/31/11	1135	SOIL	NONE	15-Encores										X	X	X										MS/MSD sample
SL-014-SA5DN-SB-4.0-5.0MS	5/31/11	1140	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-014-SA5DN-SB-9.5*	5/31/11	1150	SOIL	NONE	5-Encores										X	X	X										
SL014-SA5DN-SB-9.0-10.0	5/31/11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	5-1 L ambers			X	X	X																	
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	1-500 mL poly		X				X	X	X														
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	HNO3	1-500 mL poly	X																					
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	6-40 mL vials										X	X											
TB-053111	5/31/11	1430	WATER	HCL	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
	05/31/2011 / 1700	
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**
	6/1/11 0935	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015

Laboratory:

Lancaster Laboratories, Inc.

Lot# 13013 LL# 6302775-96 GR# 1249336

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	SS ONLY: *Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8016B	Other Instructions and Notes
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0940	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0940	SOIL	NONE	1-SS sleeve			X	X																	
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-SS sleeve			X	X																	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	1-SS sleeve			X	X																	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	1-SS sleeve			X	X																	
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-SS sleeve			X	X																	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	1-SS sleeve			X	X																	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	1-SS sleeve			X	X																	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	1-SS sleeve			X	X																	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	1-SS sleeve			X	X																	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	1-SS sleeve			X	X																	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X				X						
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	2-16 oz jars			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/31/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/1/11 0925	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

Acct# 13013 CL# 6302775-96 GR# 1249336

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-121-SA5DN-SS-0.0-0.5	5/31/11	1040	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-121-SA5DN-SS-0.0-0.5	5/31/11	1040	SOIL	NONE	1-SS sleeve			X	X																	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	1-SS sleeve			X	X																	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	4-1 liter amber			X	X	X					X	X	X			X	X		X			
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HNO3	1-500 mL poly	X																				
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	1-500 mL poly		X				X	X	X													
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NaOH	1-500 mL glass																	X				
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	None	1-250 mL glass																					
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HCl	2-40 mL vial																				X	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	4-40 mL vial													X						X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Other Instructions and Notes
	05/31/2011 / 1700		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	0456	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/01/2011
Group Number: 1249337
SDG: DE168
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA5DN-SB-4.0-5.0 Soil	6302797
SL-008-SA5DN-SB-9.0-10.0 Soil	6302798
SL-010-SA5DN-SB-4.0-5.0 Soil	6302799
SL-010-SA5DN-SB-9.0-10.0 Soil	6302800
DUP-10-SA5DN-QC-053111 Soil	6302801
SL-013-SA5DN-SB-4.0-5.0 Soil	6302802
SL-013-SA5DN-SB-9.0-10.0 Soil	6302803

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Valerie L. Tomayko
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302797
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0804 SDG#: DE168-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		7.3	8.7		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.94
06192	Methylene Chloride	75-09-2	1.6	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302797
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0804 SDG#: DE168-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.94
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.41
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302797
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0804 SDG#: DE168-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302797
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0804 SDG#: DE168-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,900		5.66	22.5		1
07914	Boron	7440-42-8	17.5		1.00	5.62		1
01650	Calcium	7440-70-2	33,000		6.90	22.5		1
01654	Iron	7439-89-6	29,200		5.30	22.5		1
01656	Lithium	7439-93-2	24.2		0.25	2.2		1
01657	Magnesium	7439-95-4	6,330		2.86	11.2		1
06958	Manganese	7439-96-5	246		0.0877	0.562		1
10145	Phosphorus	7723-14-0	278		0.630	11.2		1
01662	Potassium	7440-09-7	3,070		20.2	56.2		1
01667	Sodium	7440-23-5	737		42.0	112		1
07968	Strontium	7440-24-6	44.5		0.0697	0.562		1
06969	Tin	7440-31-5	2.87	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,170		0.427	1.12		1
10146	Zirconium	7440-67-7	3.20	J	0.945	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0669	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.54		0.0891	0.446		2
06126	Barium	7440-39-3	131		0.120	0.446		2
06127	Beryllium	7440-41-7	0.807		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.128		0.0446	0.111		2
06131	Chromium	7440-47-3	27.2		0.134	0.446		2
06132	Cobalt	7440-48-4	9.12		0.0223	0.111		2
06133	Copper	7440-50-8	12.8		0.0735	0.446		2
06135	Lead	7439-92-1	9.71		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.284		0.0557	0.111		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302797
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0804 SDG#: DE168-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	18.0	0.111	0.446		2
06141	Selenium	7782-49-2	0.0523 J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0548 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.281	0.0334	0.111		2
06148	Vanadium	7440-62-2	54.8	0.0245	0.111		2
06149	Zinc	7440-66-6	52.4	0.624	3.34		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.4	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.93	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-008-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 06:30	Holly Berry	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011 15:28	Jason M Long	23.41

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Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302797
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0804 SDG#: DE168-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115324563	06/02/2011 10:57	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115324563	06/02/2011 11:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115324563	06/02/2011 11:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115324563	06/02/2011 10:56	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 22:18	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11155SLA026	06/21/2011 05:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11155SLA026	06/06/2011 10:00	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 09:49	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 17:57	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 13:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 17:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 05:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 04:29	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 04:29	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 04:29	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 04:29	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302797
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0804 SDG#: DE168-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11166375203A	06/16/2011 14:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/13/2011 22:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11159243201A	06/09/2011 15:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11166373203A	06/15/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302798
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0809 SDG#: DE168-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302798
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0809 SDG#: DE168-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		5.54	22.0		1
07914	Boron	7440-42-8	10.3		0.980	5.51		1
01650	Calcium	7440-70-2	8,250		6.75	22.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302798
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0809 SDG#: DE168-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,600		5.19	22.0		1
01656	Lithium	7439-93-2	22.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,220		2.80	11.0		1
06958	Manganese	7439-96-5	240		0.0859	0.551		1
10145	Phosphorus	7723-14-0	178		0.617	11.0		1
01662	Potassium	7440-09-7	2,510		19.8	55.1		1
01667	Sodium	7440-23-5	414		41.1	110		1
07968	Strontium	7440-24-6	20.9		0.0683	0.551		1
06969	Tin	7440-31-5	2.95	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,350		0.419	1.10		1
10146	Zirconium	7440-67-7	1.68	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.57		0.0856	0.428		2
06126	Barium	7440-39-3	74.4		0.116	0.428		2
06127	Beryllium	7440-41-7	0.616		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0765	J	0.0428	0.107		2
06131	Chromium	7440-47-3	17.5		0.128	0.428		2
06132	Cobalt	7440-48-4	6.04		0.0214	0.107		2
06133	Copper	7440-50-8	8.84		0.0706	0.428		2
06135	Lead	7439-92-1	5.23		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.390		0.0535	0.107		2
06139	Nickel	7440-02-0	10.8		0.107	0.428		2
06141	Selenium	7782-49-2	0.0428	U	0.0428	0.428		2
06142	Silver	7440-22-4	0.0255	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.283		0.0321	0.107		2
06148	Vanadium	7440-62-2	36.7		0.0235	0.107		2
06149	Zinc	7440-66-6	50.2		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302798
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0809 SDG#: DE168-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	9.13	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011	22:43	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11155SLA026	06/22/2011	01:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11155SLA026	06/06/2011	10:00	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011	07:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011	10:07	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011	22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011	18:22	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011	13:40	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011	18:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011	06:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011	04:47	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011	04:47	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011	04:47	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011	04:47	David K Beck	2

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Analysis Report

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302798
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-0809 SDG#: DE168-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 04:47	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 04:47	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 04:47	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11166375203A	06/16/2011 16:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 00:06	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11159243201A	06/09/2011 15:42	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11166373203A	06/15/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302799
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1004 SDG#: DE168-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.5		7.0	8.4		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.91
06192	Methylene Chloride	75-09-2	2.4	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302799
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1004 SDG#: DE168-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1

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Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302799
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1004 SDG#: DE168-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1

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Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302799
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

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Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1004 SDG#: DE168-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.66	22.5		1
07914	Boron	7440-42-8	13.5		0.981	5.51		1
01650	Calcium	7440-70-2	4,020		6.76	22.1		1
01654	Iron	7439-89-6	29,100		5.19	22.1		1
01656	Lithium	7439-93-2	29.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,360		2.80	11.0		1
06958	Manganese	7439-96-5	272		0.0860	0.551		1
10145	Phosphorus	7723-14-0	290		0.618	11.0		1
01662	Potassium	7440-09-7	3,460		19.8	55.1		1
01667	Sodium	7440-23-5	469		41.1	110		1
07968	Strontium	7440-24-6	25.6		0.0684	0.551		1
06969	Tin	7440-31-5	3.14	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,370		0.427	1.12		1
10146	Zirconium	7440-67-7	2.25	J	0.926	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0681	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.83		0.0908	0.454		2
06126	Barium	7440-39-3	104		0.123	0.454		2
06127	Beryllium	7440-41-7	0.754		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.117		0.0454	0.114		2
06131	Chromium	7440-47-3	22.0		0.136	0.454		2
06132	Cobalt	7440-48-4	6.74		0.0227	0.114		2
06133	Copper	7440-50-8	10.2		0.0749	0.454		2
06135	Lead	7439-92-1	5.77		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.403		0.0568	0.114		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302799
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-1004 SDG#: DE168-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	16.9	0.114	0.454		2
06141	Selenium	7782-49-2	0.0454 U	0.0454	0.454		2
06142	Silver	7440-22-4	0.0281 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.298	0.0341	0.114		2
06148	Vanadium	7440-62-2	44.9	0.0250	0.114		2
06149	Zinc	7440-66-6	58.3	0.636	3.41		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.4	0.92	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.68	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-010-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 06:52	Holly Berry	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011 15:48	Jason M Long	21.48

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Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302799
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Suite 210
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-1004 SDG#: DE168-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115324563	06/02/2011 10:59	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115324563	06/02/2011 11:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115324563	06/02/2011 11:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115324563	06/02/2011 10:59	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 23:08	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11155SLA026	06/22/2011 02:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11155SLA026	06/06/2011 10:00	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 10:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 18:26	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 13:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 18:26	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 04:50	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 04:50	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 04:50	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 04:50	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302799
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1004 SDG#: DE168-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11166375203A	06/16/2011 16:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 00:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11159243201A	06/09/2011 15:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11166373203A	06/15/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302800
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1009 SDG#: DE168-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302800
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1009 SDG#: DE168-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	J	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1

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Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302800
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1009 SDG#: DE168-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		5.59	22.2		1
07914	Boron	7440-42-8	17.0		0.980	5.51		1
01650	Calcium	7440-70-2	6,300		6.75	22.0		1
01654	Iron	7439-89-6	37,900		25.9	110		5
01656	Lithium	7439-93-2	30.3		0.24	2.2		1
01657	Magnesium	7439-95-4	6,540		2.80	11.0		1
06958	Manganese	7439-96-5	653		0.0859	0.551		1
10145	Phosphorus	7723-14-0	256		0.617	11.0		1
01662	Potassium	7440-09-7	3,000		19.8	55.1		1
01667	Sodium	7440-23-5	515		41.1	110		1
07968	Strontium	7440-24-6	36.3		0.0683	0.551		1
06969	Tin	7440-31-5	3.15	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,240		0.423	1.11		1
10146	Zirconium	7440-67-7	3.03	J	0.925	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.227	J	0.0687	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.01		0.0916	0.458		2
06126	Barium	7440-39-3	143		0.124	0.458		2
06127	Beryllium	7440-41-7	0.918		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.121		0.0458	0.115		2
06131	Chromium	7440-47-3	27.3		0.137	0.458		2
06132	Cobalt	7440-48-4	11.1		0.0229	0.115		2
06133	Copper	7440-50-8	12.1		0.0756	0.458		2
06135	Lead	7439-92-1	9.45		0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.333		0.0573	0.115		2
06139	Nickel	7440-02-0	20.8		0.115	0.458		2
06141	Selenium	7782-49-2	0.0526	J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0223	J	0.0137	0.115		2
06145	Thallium	7440-28-0	0.307		0.0344	0.115		2
06148	Vanadium	7440-62-2	52.8		0.0252	0.115		2
06149	Zinc	7440-66-6	56.5		0.641	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0056	J	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.8		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.1		1

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Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302800
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1009 SDG#: DE168-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.51	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/10/2011 23:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11155SLA026	06/22/2011 02:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11155SLA026	06/06/2011 10:00	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 12:56	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 10:44	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 18:37	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 13:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 14:00	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 18:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:23	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302800
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1009 SDG#: DE168-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 04:59	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 04:59	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 04:59	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 04:59	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11166375203A	06/16/2011 16:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 01:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 16:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11166373203A	06/15/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.0		6.9	8.2		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	1.8	J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.91
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.9	U	5.9	18		26.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	68.1		18.9	37.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.8 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.05
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
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-DP10 SDG#: DE168-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	190	J	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,900		5.69	22.6		1
07914	Boron	7440-42-8	15.4		0.997	5.60		1
01650	Calcium	7440-70-2	90,600		34.3	112		5
01654	Iron	7439-89-6	28,600		5.28	22.4		1
01656	Lithium	7439-93-2	25.3		0.25	2.2		1
01657	Magnesium	7439-95-4	6,400		2.84	11.2		1
06958	Manganese	7439-96-5	273		0.0874	0.560		1
10145	Phosphorus	7723-14-0	174		0.627	11.2		1
01662	Potassium	7440-09-7	2,930		20.2	56.0		1
01667	Sodium	7440-23-5	597		41.8	112		1
07968	Strontium	7440-24-6	69.4		0.0694	0.560		1
06969	Tin	7440-31-5	2.65	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,410		0.430	1.13		1
10146	Zirconium	7440-67-7	3.36	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.245		0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.25		0.0905	0.452		2
06126	Barium	7440-39-3	142		0.122	0.452		2
06127	Beryllium	7440-41-7	0.863		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.115		0.0452	0.113		2
06131	Chromium	7440-47-3	31.9		0.136	0.452		2
06132	Cobalt	7440-48-4	13.1		0.0226	0.113		2
06133	Copper	7440-50-8	14.7		0.0747	0.452		2
06135	Lead	7439-92-1	10.6		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.481		0.0566	0.113		2
06139	Nickel	7440-02-0	20.0		0.113	0.452		2
06141	Selenium	7782-49-2	0.0452	U	0.0452	0.452		2
06142	Silver	7440-22-4	0.0446	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.305		0.0339	0.113		2
06148	Vanadium	7440-62-2	63.9		0.0249	0.113		2
06149	Zinc	7440-66-6	59.5		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.1		1

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Analysis Report

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011	07:14	Holly Berry	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011	16:08	Jason M Long	26.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011	13:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115224558	06/01/2011	13:14	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115224558	06/01/2011	13:14	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115224558	06/01/2011	13:00	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011	13:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/11/2011	00:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11155SLA026	06/22/2011	03:12	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011	14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11155SLA026	06/06/2011	10:00	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011	07:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34B	06/02/2011	12:33	Elizabeth J Marin	25.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011	13:00	Christopher D Meeks	n.a.

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Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 17:06	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 03:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 11:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 06:55	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/01/2011 23:46	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530020A	06/07/2011 01:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 04:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530020A	06/06/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 18:41	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 14:04	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/09/2011 14:08	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 18:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:02	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:02	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:02	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2

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Analysis Report

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302801
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-DP10 SDG#: DE168-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:02	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11166375203A	06/16/2011 16:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11166375203A	06/16/2011 16:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 01:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 16:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201B	06/06/2011 09:43	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11166373203A	06/15/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201B	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1304 SDG#: DE168-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2		6.5	7.7		0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.84
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.84
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.84
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.84
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.84
06192	Methylene Chloride	75-09-2	1.8	J	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.84

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Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1304 SDG#: DE168-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.84
06192	Toluene	108-88-3	0.08	U	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.84
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.84
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.16
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	65.4		19.1	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1304 SDG#: DE168-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1304 SDG#: DE168-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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-1304 SDG#: DE168-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	330	J	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	38,600		5.59	22.2		1
07914	Boron	7440-42-8	19.9		1.01	5.67		1
01650	Calcium	7440-70-2	9,200		6.95	22.7		1
01654	Iron	7439-89-6	38,400		26.7	113		5
01656	Lithium	7439-93-2	31.3		0.25	2.3		1
01657	Magnesium	7439-95-4	8,050		2.88	11.3		1

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Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

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14420 Albemarle Point Place
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-1304 SDG#: DE168-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	374		0.0884	0.567		1
10145	Phosphorus	7723-14-0	161		0.635	11.3		1
01662	Potassium	7440-09-7	3,340		20.4	56.7		1
01667	Sodium	7440-23-5	624		42.3	113		1
07968	Strontium	7440-24-6	52.5		0.0703	0.567		1
06969	Tin	7440-31-5	3.04	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,350		0.422	1.11		1
10146	Zirconium	7440-67-7	3.37	J	0.952	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.22		0.0907	0.453		2
06126	Barium	7440-39-3	183		0.122	0.453		2
06127	Beryllium	7440-41-7	0.949		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.186		0.0453	0.113		2
06131	Chromium	7440-47-3	32.9		0.136	0.453		2
06132	Cobalt	7440-48-4	10.0		0.0227	0.113		2
06133	Copper	7440-50-8	15.1		0.0748	0.453		2
06135	Lead	7439-92-1	9.50		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.369		0.0567	0.113		2
06139	Nickel	7440-02-0	22.8		0.113	0.453		2
06141	Selenium	7782-49-2	0.0862	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0532	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.343		0.0340	0.113		2
06148	Vanadium	7440-62-2	60.3		0.0249	0.113		2
06149	Zinc	7440-66-6	65.1		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.7		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.5		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1304 SDG#: DE168-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.01	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	13.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-013-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 07:36	Holly Berry	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011 16:28	Jason M Long	22.16
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115224558	06/01/2011 13:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115224558	06/01/2011 13:04	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 13:43	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/11/2011 00:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11155SLA026	06/22/2011 03:45	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11155SLA026	06/06/2011 10:00	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34B	06/02/2011 13:09	Elizabeth J Marin	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:04	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 17:48	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 03:45	James H Place	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1304 SDG#: DE168-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 11:21	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 07:20	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/02/2011 00:01	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 17:36	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 04:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 18:45	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 14:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 14:16	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 18:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:05	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:05	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:05	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:05	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:19	Nelli S Markaryan	1

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Analysis Report

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302802
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1304 SDG#: DE168-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11166375203A	06/16/2011 17:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11166375203A	06/16/2011 17:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 02:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 16:33	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201B	06/06/2011 09:44	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11166373203A	06/15/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201B	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1309 SDG#: DE168-07*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.3		7.1	8.5		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.93
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.93
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.5		0.93
06192	Methylene Chloride	75-09-2	2.1	J	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.93

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1309 SDG#: DE168-07*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.93
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		23.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	71.5		18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1309 SDG#: DE168-07*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1309 SDG#: DE168-07*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.13
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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-1309 SDG#: DE168-07*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,300		5.69	22.6		1
07914	Boron	7440-42-8	13.3		1.01	5.65		1
01650	Calcium	7440-70-2	21,000		6.93	22.6		1
01654	Iron	7439-89-6	28,900		5.32	22.6		1
01656	Lithium	7439-93-2	26.1		0.25	2.3		1
01657	Magnesium	7439-95-4	6,120		2.87	11.3		1

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Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1309 SDG#: DE168-07*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	291		0.0882	0.565		1
10145	Phosphorus	7723-14-0	270		0.633	11.3		1
01662	Potassium	7440-09-7	3,470		20.3	56.5		1
01667	Sodium	7440-23-5	625		42.2	113		1
07968	Strontium	7440-24-6	55.7		0.0701	0.565		1
06969	Tin	7440-31-5	2.87	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,420		0.429	1.13		1
10146	Zirconium	7440-67-7	2.52	J	0.949	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.258		0.0665	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.52		0.0887	0.443		2
06126	Barium	7440-39-3	136		0.120	0.443		2
06127	Beryllium	7440-41-7	0.763		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.171		0.0443	0.111		2
06131	Chromium	7440-47-3	29.1		0.133	0.443		2
06132	Cobalt	7440-48-4	9.56		0.0222	0.111		2
06133	Copper	7440-50-8	12.3		0.0731	0.443		2
06135	Lead	7439-92-1	9.33		0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.796		0.0554	0.111		2
06139	Nickel	7440-02-0	20.6		0.111	0.443		2
06141	Selenium	7782-49-2	0.0588	J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0420	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.320		0.0332	0.111		2
06148	Vanadium	7440-62-2	58.1		0.0244	0.111		2
06149	Zinc	7440-66-6	65.1		0.621	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0038	J	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.7		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.8		0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1

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SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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-1309 SDG#: DE168-07*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-013-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 07:59	Holly Berry	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111531AA	06/02/2011 16:48	Jason M Long	23.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115224558	06/01/2011 13:15	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115224558	06/01/2011 13:07	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11153SLD026	06/23/2011 14:00	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11152SLF026	06/11/2011 01:39	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11155SLA026	06/22/2011 04:18	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11153SLD026	06/02/2011 14:30	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11155SLA026	06/06/2011 10:00	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11152SLF026	06/02/2011 07:45	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11151B34B	06/02/2011 13:45	Elizabeth J Marin	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115224558	06/01/2011 13:07	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111580011A	06/10/2011 18:31	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111530001A	06/04/2011 04:04	James H Place	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1309 SDG#: DE168-07*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111570015A	06/09/2011 11:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111570015A	06/06/2011 22:20	Karen L Beyer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111530001A	06/02/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111580011A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 07:44	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111520021A	06/02/2011 00:16	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 17:49	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590035A	06/11/2011 05:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590035A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111520021A	06/01/2011 16:00	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 18:49	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 14:20	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 18:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:35	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:08	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:08	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:08	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:08	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:20	Nelli S Markaryan	1

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Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302803
LLI Group # 1249337
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/29/2011 09:35

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

-1309 SDG#: DE168-07*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11166375203A	06/16/2011 17:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11166375203A	06/16/2011 17:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 02:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11159243201A	06/09/2011 16:44	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11154102201B	06/06/2011 09:45	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11166373203A	06/15/2011 17:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11154102201B	06/03/2011 15:10	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11159243201A	06/08/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111572AA	Sample number(s): 6302797,6302799,6302801-6302803									
Acetone	8.4		6.7	8.0	ug/kg	113		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	103		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	104		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	106		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	110		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	106		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	75		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	89		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	106		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	84		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	113		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	108		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	107		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	105		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	111		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108		61-134		
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	105		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	108		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	106		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	99		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	108		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	110		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	108		80-120		
Batch number: E111531AA	Sample number(s): 6302797,6302799,6302801-6302803									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	111	70-130	6	30
Batch number: 11152SLF026	Sample number(s): 6302797-6302803									
Aniline	170 U		170.	500	ug/kg	73		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	58		15-121		
Benzoic acid	170 U		170.	500	ug/kg	98		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		79-117		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	56		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	90		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	98		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	99		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	47		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	102		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	100		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	107		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	96		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	99		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	98		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	83		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	103		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	83		51-117		
Phenol	17	U	17.	170	ug/kg	85		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	101		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 11153SLD026	Sample number(s): 6302801-6302803									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11155SLA026	Sample number(s): 6302797-6302803									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	90		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	90		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	93		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	85		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	94		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	79		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	101		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	235*		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	94		79-121		
Bis(2-Ethylhexyl)phthalate	7.8	J	6.0	18	ug/kg	100		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	71		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	91		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	100		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	72		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	82		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 11151B34B	Sample number(s): 6302801-6302803									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	68	74	67-119	8	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111580011A	Sample number(s): 6302801-6302803									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	101	98	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	101	98	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	114		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	105		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
HMX	100 U		100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	110		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	104		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	111		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	103		80-120		
PETN	800 U		800.	2,400	ug/kg	113		80-120		
RDX	50	U	50.	120	ug/kg	97		75-131		
Tetryl	61	U	61.	120	ug/kg	93		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
Batch number: 111530001A	Sample number(s): 6302801-6302803									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	95		80-126		
Batch number: 111590022A	Sample number(s): 6302800									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 111570015A	Sample number(s): 6302797-6302803									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	96	88	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111580028A	Sample number(s): 6302801-6302803									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	105		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	108		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	88		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	101		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 111520021A	Sample number(s): 6302801-6302803									
Ethanol	100 U		100.	500	ug/kg	90		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methanol	100 U		100.	500	ug/kg	92		68-129		
Batch number: 111530019A	Sample number(s): 6302802-6302803									
Diethylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Batch number: 111530020A	Sample number(s): 6302801									
Diethylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111590035A	Sample number(s): 6302801-6302803									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
Batch number: 111581026004A	Sample number(s): 6302797-6302803									
Antimony	0.0600	U	0.0600	0.200	mg/kg	132		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	111		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.152	J	0.0660	0.400	mg/kg	96		83-110		
Lead	0.0660	J	0.0104	0.200	mg/kg	98		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	105		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	99		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	108		81-112		
Batch number: 111581026004B	Sample number(s): 6302797-6302803									
Selenium	0.0400	U	0.0400	0.400	mg/kg	102		83-111		
Batch number: 111581026004C	Sample number(s): 6302797-6302803									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 111581026004D	Sample number(s): 6302797-6302803									
Barium	0.108	U	0.108	0.400	mg/kg	108		81-111		
Batch number: 111585708002	Sample number(s): 6302797-6302803									
Boron	0.890	U	0.890	5.00	mg/kg	103		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	108		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	105		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.09	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	107		78-110		
Sodium	37.3	U	37.3	100	mg/kg	101		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28	J	1.00	10.0	mg/kg	102		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111585711003	Sample number(s): 6302797-6302803									
Mercury	0.0028	U	0.0028	0.0969	mg/kg	101		88-123		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111595708002	Sample number(s): 6302797-6302803									
Aluminum	5.03	U	5.03	20.0	mg/kg	107		61-110		
Titanium	0.380	U	0.380	1.00	mg/kg	115		80-120		
Batch number: 11154102201B	Sample number(s): 6302801-6302803									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	102		80-120		
Batch number: 11157495204A	Sample number(s): 6302797-6302803									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11159243201A	Sample number(s): 6302797-6302803									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11166375203A	Sample number(s): 6302797-6302803									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11157039402B	Sample number(s): 6302797-6302803									
18a pH by 9045C						100		95-105		
Batch number: 11159162401B	Sample number(s): 6302797-6302800									
Moisture Content by 160.3						100		80-120		
Batch number: 11167162402B	Sample number(s): 6302802-6302803									
Moisture Content by 160.3						100		80-120		
Batch number: 11168162401A	Sample number(s): 6302801									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111572AA	Sample number(s): 6302797,6302799,6302801-6302803 UNSPK: P302747								
Acetone	87	95	15-210	10	30				
Benzene	117	112	55-143	25	30				
Bromobenzene	111	104	43-139	26	30				
Bromochloromethane	113	112	60-137	21	30				
Bromodichloromethane	106	105	53-136	21	30				
Bromoform	95	97	38-124	18	30				
Bromomethane	91	86	42-168	26	30				
2-Butanone	83	93	37-163	9	30				
n-Butylbenzene	121	104	30-146	35*	30				
sec-Butylbenzene	120	106	33-157	32*	30				
tert-Butylbenzene	117	105	41-152	31*	30				
Carbon Tetrachloride	125	118	45-153	27	30				
Chlorobenzene	116	108	49-135	27	30				
Chloroethane	85	79	39-152	27	30				
2-Chloroethyl Vinyl Ether	81	87	32-139	12	30				
Chloroform	116	112	61-142	24	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chloromethane	100	96	51-163	25	30				
2-Chlorotoluene	114	103	42-146	30	30				
4-Chlorotoluene	117	105	39-145	31*	30				
Chlorotrifluoroethene	68*	80	70-130	5	30				
1,2-Dibromo-3-chloropropane	83	97	30-139	4	30				
Dibromochloromethane	102	103	51-128	19	30				
1,2-Dibromoethane	102	101	54-129	21	30				
Dibromomethane	99	102	57-130	17	30				
1,2-Dichlorobenzene	112	104	36-133	27	30				
1,3-Dichlorobenzene	112	102	34-134	29	30				
1,4-Dichlorobenzene	111	102	35-136	29	30				
Dichlorodifluoromethane	97	89	26-151	28	30				
1,1-Dichloroethane	118	114	63-142	24	30				
1,2-Dichloroethane	112	114	68-131	19	30				
1,1-Dichloroethene	130	124	61-149	25	30				
cis-1,2-Dichloroethene	113	109	60-136	24	30				
trans-1,2-Dichloroethene	115	112	59-142	23	30				
1,2-Dichloropropane	108	107	62-135	21	30				
1,3-Dichloropropane	104	106	58-129	18	30				
2,2-Dichloropropane	120	116	53-147	24	30				
1,1-Dichloropropene	122	114	54-145	27	30				
cis-1,3-Dichloropropene	101	103	51-131	18	30				
trans-1,3-Dichloropropene	98	100	49-129	19	30				
Ethylbenzene	118	108	44-141	29	30				
Freon 113	132	126	56-156	25	30				
Freon 133a	98	115	61-131	6	30				
Hexachlorobutadiene	105	93	10-155	32*	30				
2-Hexanone	85	97	32-160	7	30				
Isopropylbenzene	123	111	38-144	30	30				
p-Isopropyltoluene	119	104	29-152	33*	30				
Methyl Tertiary Butyl Ether	95	102	55-129	13	30				
4-Methyl-2-pentanone	85	93	46-139	11	30				
Methylene Chloride	118	114	61-141	21	30				
n-Propylbenzene	121	108	39-157	32*	30				
Styrene	116	108	35-134	27	30				
1,1,1,2-Tetrachloroethane	112	109	52-130	23	30				
1,1,2,2-Tetrachloroethane	91	93	40-152	18	30				
Tetrachloroethene	128	117	42-149	29	30				
Toluene	118	110	50-146	27	30				
1,2,3-Trichlorobenzene	97	94	10-140	23	30				
1,2,4-Trichlorobenzene	94	88	10-136	26	30				
1,1,1-Trichloroethane	121	116	64-142	24	30				
1,1,2-Trichloroethane	102	104	54-139	18	30				
Trichloroethene	114	110	53-144	23	30				
Trichlorofluoromethane	114	108	47-163	26	30				
1,2,3-Trichloropropane	92	96	45-154	17	30				
1,2,4-Trimethylbenzene	114	104	37-149	29	30				
1,3,5-Trimethylbenzene	120	107	38-150	31*	30				
Vinyl Chloride	100	97	50-154	23	30				
m+p-Xylene	123	112	44-137	29	30				
o-Xylene	116	108	42-137	27	30				

Batch number: E111531AA Sample number(s): 6302797,6302799,6302801-6302803 UNSPK: P300336

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dioxane	86	94	70-130	3	30				
Batch number: 11152SLF026	Sample number(s): 6302797-6302803 UNSPK: P298916								
Aniline	70	66	35-95	7	30				
Benzidine	21*	20*	35-141	2	30				
Benzoic acid	49	37	10-173	27	30				
Benzyl alcohol	98	92	67-115	6	30				
4-Bromophenyl-phenylether	103	102	67-129	2	30				
Carbazole	96	92	64-120	4	30				
4-Chloro-3-methylphenol	94	89	76-110	6	30				
4-Chloroaniline	60	62	23-95	3	30				
bis(2-Chloroethoxy)methane	98	95	75-104	4	30				
bis(2-Chloroethyl)ether	94	90	60-116	4	30				
bis(2-Chloroisopropyl)ether	91	87	55-142	5	30				
2-Chloronaphthalene	73	71	50-141	3	30				
2-Chlorophenol	102	96	73-121	6	30				
4-Chlorophenyl-phenylether	95	92	80-109	3	30				
Dibenzofuran	99	94	71-112	5	30				
1,2-Dichlorobenzene	89	84	66-108	6	30				
1,3-Dichlorobenzene	89	83	63-109	8	30				
1,4-Dichlorobenzene	89	85	70-100	4	30				
3,3'-Dichlorobenzidine	78	78	16-119	0	30				
2,4-Dichlorophenol	100	94	78-117	6	30				
2,4-Dimethylphenol	100	94	78-110	6	30				
3,5-Dimethylphenol	106	102	70-130	4	30				
4,6-Dinitro-2-methylphenol	50	46	24-116	8	30				
2,4-Dinitrophenol	29	24	20-143	18	30				
2,4-Dinitrotoluene	93	89	73-113	5	30				
2,6-Dinitrotoluene	100	93	69-123	7	30				
1,2-Diphenylhydrazine	115	112	71-129	3	30				
Hexachlorobenzene	105	101	77-114	4	30				
Hexachlorobutadiene	100	93	62-120	7	30				
Hexachlorocyclopentadiene	46	37	10-153	21	30				
Hexachloroethane	78	74	57-109	5	30				
Isophorone	96	93	73-102	3	30				
2-Methylphenol	96	89	75-111	8	30				
4-Methylphenol	92	85	71-111	7	30				
2-Nitroaniline	102	99	67-125	2	30				
3-Nitroaniline	90	88	59-122	3	30				
4-Nitroaniline	69	65	52-112	6	30				
Nitrobenzene	99	97	72-106	2	30				
2-Nitrophenol	101	96	74-115	5	30				
4-Nitrophenol	76	75	54-113	2	30				
N-Nitroso-di-n-propylamine	92	88	60-116	4	30				
N-Nitrosodiphenylamine	106	106	86-145	1	30				
Pentachlorophenol	73	70	28-127	4	30				
Phenol	90	84	58-126	7	30				
1,2,4-Trichlorobenzene	98	96	72-115	3	30				
2,4,5-Trichlorophenol	99	95	78-109	4	30				
2,4,6-Trichlorophenol	103	101	77-115	2	30				
Batch number: 11153SLD026	Sample number(s): 6302801-6302803 UNSPK: P302747								
N-Nitrosodimethylamine	82	86	70-130	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11155SLA026	Sample number(s): 6302797-6302803 UNSPK: 6302797								
Acenaphthene	95	93	63-105	2	30				
Acenaphthylene	89	90	67-114	0	30				
Anthracene	93	93	60-122	0	30				
Benzo(a)anthracene	95	94	59-128	1	30				
Benzo(a)pyrene	91	90	45-138	2	30				
Benzo(b)fluoranthene	98	82	43-155	17	30				
Benzo(g,h,i)perylene	89	82	33-141	8	30				
Benzo(k)fluoranthene	85	86	42-144	2	30				
Butylbenzylphthalate	95	88	57-173	8	30				
Di-n-butylphthalate	85	89	65-148	5	30				
Chrysene	92	95	48-134	2	30				
Dibenz(a,h)anthracene	92	95	22-133	4	30				
Diethylphthalate	91	86	70-136	6	30				
Dimethylphthalate	90	94	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	95	89	39-167	6	30				
Fluoranthene	88	103	26-166	16	30				
Fluorene	100	94	66-122	6	30				
Indeno(1,2,3-cd)pyrene	91	96	21-143	5	30				
1-Methylnaphthalene	100	92	72-123	9	30				
2-Methylnaphthalene	88	84	64-103	5	30				
Naphthalene	89	88	61-102	0	30				
N-Nitrosodimethylamine	71	80	48-113	13	30				
Di-n-octylphthalate	87	76	40-192	14	30				
Phenanthrene	93	91	12-165	1	30				
Pyrene	97	104	15-153	7	30				
Batch number: 11151B34B	Sample number(s): 6302801-6302803 UNSPK: P302747								
9a TPH by EPA 8015B Gas C5-C12	61	62	39-118	5	30				
Batch number: 111580011A	Sample number(s): 6302801-6302803 UNSPK: P302747								
4-Amino-2,6-Dinitrotoluene	110	106	80-127	8	50				
2-Amino-4,6-Dinitrotoluene	109	104	80-137	9	50				
1,3-Dinitrobenzene	115	111	38-166	7	50				
2,4-Dinitrotoluene	106	101	80-131	9	50				
2,6-Dinitrotoluene	109	103	80-127	9	50				
HMX	95	89	63-128	11	50				
Nitrobenzene	108	103	80-125	8	50				
Nitroglycerin	94	90	80-120	9	50				
2-Nitrotoluene	105	99	80-122	9	50				
3-Nitrotoluene	111	107	72-119	8	50				
4-Nitrotoluene	103	99	80-125	8	50				
PETN	120	113	80-121	9	50				
RDX	88	83	75-129	10	50				
Tetryl	83	78	55-174	10	50				
1,3,5-Trinitrobenzene	101	95	82-126	10	50				
2,4,6-Trinitrotoluene	108	103	82-130	9	50				
Batch number: 111530001A	Sample number(s): 6302801-6302803 UNSPK: 6302801								
25a Formaldehyde 8315A	95	99	80-120	3	50				
Batch number: 111590022A	Sample number(s): 6302800 UNSPK: P302756								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
6a Perchlorate EPA 6850	107	103	80-120	4	20				
Batch number: 111570015A	Sample number(s): 6302797-6302803 UNSPK: P301476								
PCB-1016	88	78	29-146	12	50				
PCB-1260	89	105	39-149	13	50				
Batch number: 111580028A	Sample number(s): 6302801-6302803 UNSPK: P306851								
EFH (C12-C14)	105	110	49-123	6	20				
EFH (C15-C20)	118	116	49-123	1	20				
EFH (C21-C30)	100	96	49-123	4	20				
EFH (C30 - C40)	94	95	49-123	2	20				
EFH (C8-C11)	99	101	49-123	4	20				
Batch number: 111520021A	Sample number(s): 6302801-6302803 UNSPK: P302747								
Ethanol	83	82	48-130	2	20				
Isopropanol	80	80	12-149	0	20				
Methanol	86	79	43-138	8	20				
Batch number: 111530019A	Sample number(s): 6302802-6302803 UNSPK: P301476								
Diethylene glycol	45*	40*	59-109	12	20				
Ethylene glycol	66	57*	63-107	15	20				
Propylene glycol	73	62*	63-107	17	20				
Batch number: 111530020A	Sample number(s): 6302801 UNSPK: P302747								
Diethylene glycol	42*	22*	59-109	61*	20				
Ethylene glycol	65	39*	63-107	51*	20				
Propylene glycol	73	44*	63-107	50*	20				
Batch number: 111590035A	Sample number(s): 6302801-6302803 UNSPK: P302747								
m-Terphenyl	76	73*	75-125	2	20				
o-Terphenyl	88	85	75-125	3	20				
p-Terphenyl	88	85	75-125	3	20				
Batch number: 111581026004A	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
Antimony	58*	55*	75-125	4	20	0.153 J	0.149 J	3 (1)	20
Arsenic	116	83	75-125	8	20	5.64	4.83	16	20
Beryllium	75	72*	75-125	2	20	0.696	0.637	9	20
Cadmium	110	103	75-125	6	20	0.111	0.118	6 (1)	20
Chromium	91	82	75-125	3	20	23.4	23.1	2	20
Cobalt	97	94	75-125	2	20	7.87	8.31	6	20
Copper	100	94	75-125	3	20	11.0	11.0	0	20
Lead	101	57*	75-125	12	20	8.38	6.41	27*	20
Nickel	113	107	75-125	2	20	15.5	15.1	3	20
Silver	103	99	75-125	3	20	0.0473 J	0.0384 J	21* (1)	20
Thallium	107	87	75-125	12	20	0.242	0.235	3 (1)	20
Vanadium	105 (2)	97 (2)	75-125	1	20	47.3	43.6	8	20
Zinc	96 (2)	69 (2)	75-125	5	20	45.2	43.4	4	20
Batch number: 111581026004B	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
Selenium	96	100	75-125	5	20	0.0452 J	0.0396 U	200* (1)	20
Batch number: 111581026004C	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
Molybdenum	99	94	75-125	4	20	0.245	0.227	8 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111581026004D	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
Barium	139 (2)	37 (2)	75-125	8	20	113	105	7	20
Batch number: 111585708002	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
Boron	100	102	84-115	1	20	15.1	13.8	9 (1)	20
Calcium	94 (2)	-2118 (2)	75-125	35*	20	28,500	29,400	3	20
Iron	-1141 (2)	854 (2)	75-125	8	20	25,200	23,900	6	20
Lithium	102	103	82-114	1	20	20.9	19.4	8	20
Magnesium	114 (2)	198 (2)	75-125	3	20	5,470	5,120	7	20
Manganese	204 (2)	378 (2)	75-125	24*	20	213	307	36*	20
Phosphorus	84	105	75-125	6	20	240	244	2	20
Potassium	149*	151*	75-125	0	20	2,650	2,600	2	20
Sodium	97	99	75-125	2	20	636	594	7	20
Strontium	98	97	75-115	1	20	38.4	35.6	8	20
Tin	87	88	80-110	2	20	2.48 J	2.44 J	2 (1)	20
Zirconium	97	98	75-125	1	20	2.76 J	4.72 J	52* (1)	20
Batch number: 111585711003	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
Mercury	106	112	65-135	4	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 111595708002	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
Aluminum	1002 (2)	704 (2)	75-125	2	20	25,800	24,700	5	20
Titanium	360 (2)	310 (2)	75-125	4	20	1,010	1,160	13	20
Batch number: 11154102201B	Sample number(s): 6302801-6302803 UNSPK: P302765 BKG: P302765								
17a Cyanide by 9012B	105		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11157495204A	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11159243201A	Sample number(s): 6302797-6302803 UNSPK: P298916 BKG: P298916								
3a Cr VI by EPA 7199	93		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11166375203A	Sample number(s): 6302797-6302803 UNSPK: 6302797 BKG: 6302797								
11a Anions by 300.0 - Fluoride	43*		80-120			7.2	7.3	0	20
11a Anions by 300.0 - Nitrate	85		80-120			1.5 J	1.6	5 (1)	20
Batch number: 11157039402B	Sample number(s): 6302797-6302803 BKG: P304841								
18a pH by 9045C						7.74	7.86	2	3
Batch number: 11159162401B	Sample number(s): 6302797-6302800 BKG: 6302800								
Moisture Content by 160.3						12.7	13.7	7	20
Batch number: 11167162402B	Sample number(s): 6302802-6302803 BKG: 6302802								
Moisture Content by 160.3						13.5	14.7	8	20
Batch number: 11168162401A	Sample number(s): 6302801 BKG: P314471								
Moisture Content by 160.3						16.3	16.2	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111572AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6302797	101	99	101	94
6302799	103	100	99	93
6302801	105	106	98	95
6302802	106	107	98	94
6302803	104	102	99	93
Blank	104	105	98	94
LCS	102	101	102	102
MS	100	95	104	100
MSD	101	97	103	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111531AA

	Toluene-d8
6302797	95
6302799	95
6302801	95
6302802	94
6302803	95
Blank	95
LCS	95
LCSD	95
MS	95
MSD	95
Limits:	70-130

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11152SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6302797	77	79	84	76	77	80
6302798	84	86	89	82	85	86
6302799	85	88	89	83	84	86
6302800	82	86	86	83	83	84
6302801	80	82	85	79	82	81
6302802	82	84	90	79	79	82
6302803	84	87	93	83	86	85
Blank	85	90	91	87	87	88
LCS	86	90	92	89	92	90
MS	91	96	85	92	95	88
MSD	86	91	80	88	93	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Surrogate Quality Control

Batch number: 11153SLD026

	N-Nitrosodimethylamine-d6
6302801	75
6302802	106
6302803	90
Blank	121
LCS	132
MS	93
MSD	86
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11155SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6302797	106	89	109
6302798	117	106	119
6302799	97	78	93
6302800	92	109	118
6302801	105	104	91
6302802	96	78	103
6302803	101	88	115
Blank	105	91	107
LCS	103	100	113
MS	103	99	109
MSD	105	91	119
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11151B34B

	Trifluorotoluene-F
6302801	78
6302802	77
6302803	72
Blank	77
LCS	79
LCSD	87
MS	74
MSD	74
Limits:	61-122

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111530001A

	Butyraldehyde
6302801	137*
6302802	124
6302803	133*
Blank	134*
LCS	130*
MS	129*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Surrogate Quality Control

MSD 134*

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111570015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6302797	107	117
6302798	107	113
6302799	104	113
6302800	104	113
6302801	108	116
6302802	103	107
6302803	106	112
Blank	104	111
LCS	110	112
LCSD	107	114
MS	110	95
MSD	103	91
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111580011A

	2-Nitro-m-xylene
6302801	113
6302802	117
6302803	118
Blank	121
LCS	117
LCSD	123
MS	130
MSD	129
Limits:	80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111520021A

	Acetone
6302801	76
6302802	76
6302803	74
Blank	87
LCS	86
MS	74
MSD	76
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111530019A

	Tetramethylene glycol
6302802	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249337
Reported: 06/29/11 at 09:35 AM

Surrogate Quality Control

6302803	80
Blank	84
LCS	91
MS	82
MSD	81
Limits:	29-137

Analysis Name: 21a Glycols by 8015B
Batch number: 111530020A

	Tetramethylene glycol
6302801	78
Blank	86
LCS	93
MS	80
MSD	79
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111580028A

	Chlorobenzene	Orthoterphenyl
6302801	70	91
6302802	70	84
6302803	77	97
Blank	93	106
LCS	91	108
MS	91	107
MSD	90	104
Limits:	37-125	47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111590035A

	n-Triacontane-d62
6302801	90
6302802	92
6302803	90
Blank	97
LCS	97
MS	91
MSD	91
Limits:	50-150

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Acct#13013 LL# 6302797-903 GR# 1249537

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-010-SA5DN-SB-4.5	5/31/11	1419	SOIL	NONE	4-Encores										X	X											
SL-010-SA5DN-SB-4.0-5.0	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-010-SA5DN-SB-9.0-10.0	5/31/11	1431	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
SL-013-SA5DN-SB-4.5	5/31/11	1007	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-4.0-5.0	5/31/11	1011	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X														
SL-013-SA5DN-SB-9.5	5/31/11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-9.0-10.0	5/31/11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X														
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	5-1 L ambers			X	X	X																	
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	1-500 mL poly		X				X	X	X														
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	HNO3	1-500 mL poly	X																					
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	6-40 mL vials										X	X											
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 05/31/2011 / 1700 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 5/31/11 1756 — Airbill No.(s): 8695 1442 0968; 8695 1441 0979; 8695 1441 0980; 8695 1441 0990; 8695 1441 1004; 8695 1441 1015

Laboratory: Lancaster Laboratories, Inc.

Acct # 13013 LL# 6302797-803 GR# 1249337

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0940	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0940	SOIL	NONE	1-SS sleeve			X	X																	
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-SS sleeve			X	X																	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	1-SS sleeve			X	X																	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	1-SS sleeve			X	X																	
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-SS sleeve			X	X																	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	1-SS sleeve			X	X																	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	1-SS sleeve			X	X																	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	1-SS sleeve			X	X																	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	1-SS sleeve			X	X																	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	1-SS sleeve			X	X																	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X					X					
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	2-16 oz jars			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/31/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	6/1/11 0935	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

Acct # 13013 LL# 6302797-503 GR#1249337

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	1-SS sleeve			X	X																	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	1-SS sleeve			X	X																	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	2-1 liter amber			X	X	X				X	X	X	X				X	X		X		
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HNO3	1-500 mL poly	X														X	X					
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	1-500 mL poly		X	X			X	X	X													
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NaOH	1-500 mL glass																	X				
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	None	1-250 mL glass														X							
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HCl	2-40 mL vial																				X	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	4-40 mL vial													X								

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	05/31/2011 / 1700		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time 0935	Airbill No.(s) 8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/01/2011
Group Number: 1249338
SDG: DX094
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA5DN-SB-4.0-5.0 Soil	6302804
SL-008-SA5DN-SB-9.0-10.0 Soil	6302805
SL-010-SA5DN-SB-4.0-5.0 Soil	6302806
SL-010-SA5DN-SB-9.0-10.0 Soil	6302807
DUP-10-SA5DN-QC-053111 Soil	6302808
SL-013-SA5DN-SB-4.0-5.0 Soil	6302809
SL-013-SA5DN-SB-9.0-10.0 Soil	6302810

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302804
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X008- SDG#: DX094-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302804
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X008- SDG#: DX094-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0273 JBQ	0.0187	1.15	1
11031	12378-PeCDD	40321-76-4	0.0167 U	0.0167	5.77	1
11031	123478-HxCDD	39227-28-6	0.0243 J	0.0180	5.77	1
11031	123678-HxCDD	57653-85-7	0.0220 JB	0.0194	5.77	1
11031	123789-HxCDD	19408-74-3	0.0536 JBQ	0.0181	5.77	1
11031	1234678-HpCDD	35822-46-9	0.428 JBQ	0.0329	5.77	1
11031	OCDD	3268-87-9	1.19 JB	0.0342	11.5	1
11031	2378-TCDF	51207-31-9	0.0191 JBQ	0.0151	1.15	1
11031	12378-PeCDF	57117-41-6	0.0213 JBQ	0.00997	5.77	1
11031	23478-PeCDF	57117-31-4	0.0463 JB	0.00892	5.77	1
11031	123478-HxCDF	70648-26-9	0.0296 JBQ	0.0129	5.77	1
11031	123678-HxCDF	57117-44-9	0.0225 JB	0.0116	5.77	1
11031	123789-HxCDF	72918-21-9	0.0474 JBQ	0.0115	5.77	1
11031	234678-HxCDF	60851-34-5	0.0277 JB	0.0108	5.77	1
11031	1234678-HpCDF	67562-39-4	0.0757 JBQ	0.0125	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0382 JBQ	0.0152	5.77	1
11031	OCDF	39001-02-0	0.163 JB	0.0294	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302804
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X008- SDG#: DX094-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302804
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:44

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X008- SDG#: DX094-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 08:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302805
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0089 SDG#: DX094-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302805
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0089 SDG#: DX094-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0141 JB	0.0133	1.10	1
11031	12378-PeCDD	40321-76-4	0.0779 JBQ	0.0145	5.52	1
11031	123478-HxCDD	39227-28-6	0.0411 J	0.0151	5.52	1
11031	123678-HxCDD	57653-85-7	0.0645 JBQ	0.0156	5.52	1
11031	123789-HxCDD	19408-74-3	0.0762 JBQ	0.0148	5.52	1
11031	1234678-HpCDD	35822-46-9	0.425 JB	0.0238	5.52	1
11031	OCDD	3268-87-9	1.29 JB	0.0263	11.0	1
11031	2378-TCDF	51207-31-9	0.0153 JBQ	0.0127	1.10	1
11031	12378-PeCDF	57117-41-6	0.112 JB	0.00768	5.52	1
11031	23478-PeCDF	57117-31-4	0.121 JB	0.00712	5.52	1
11031	123478-HxCDF	70648-26-9	0.0748 JB	0.00990	5.52	1
11031	123678-HxCDF	57117-44-9	0.0645 JB	0.00957	5.52	1
11031	123789-HxCDF	72918-21-9	0.0544 JB	0.0109	5.52	1
11031	234678-HxCDF	60851-34-5	0.0584 JB	0.00979	5.52	1
11031	1234678-HpCDF	67562-39-4	0.0823 JB	0.00957	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0332 JBQ	0.0128	5.52	1
11031	OCDF	39001-02-0	0.127 JB	0.0216	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302805
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0089 SDG#: DX094-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302805
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 15:49

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0089 SDG#: DX094-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 09:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302806
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0104 SDG#: DX094-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302806
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0104 SDG#: DX094-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0448 JBQ	0.0138	1.11	1
11031	12378-PeCDD	40321-76-4	0.133 JB	0.0162	5.56	1
11031	123478-HxCDD	39227-28-6	0.0762 JQ	0.0157	5.56	1
11031	123678-HxCDD	57653-85-7	0.0882 JB	0.0162	5.56	1
11031	123789-HxCDD	19408-74-3	0.0865 JBQ	0.0149	5.56	1
11031	1234678-HpCDD	35822-46-9	0.481 JB	0.0237	5.56	1
11031	OCDD	3268-87-9	1.31 JB	0.0266	11.1	1
11031	2378-TCDF	51207-31-9	0.0252 JBQ	0.0108	1.11	1
11031	12378-PeCDF	57117-41-6	0.215 JB	0.00826	5.56	1
11031	23478-PeCDF	57117-31-4	0.208 JB	0.00803	5.56	1
11031	123478-HxCDF	70648-26-9	0.164 JB	0.0156	5.56	1
11031	123678-HxCDF	57117-44-9	0.134 JBQ	0.0143	5.56	1
11031	123789-HxCDF	72918-21-9	0.110 JB	0.0164	5.56	1
11031	234678-HxCDF	60851-34-5	0.153 JBQ	0.0147	5.56	1
11031	1234678-HpCDF	67562-39-4	0.260 JB	0.0101	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0480 JB	0.0139	5.56	1
11031	OCDF	39001-02-0	0.228 JB	0.0216	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302806
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0104 SDG#: DX094-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302806
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:25

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0104 SDG#: DX094-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 10:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302807
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0109 SDG#: DX094-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302807
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0109 SDG#: DX094-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0135 U	0.0135	1.12	1
11031	12378-PeCDD	40321-76-4	0.0527 JBQ	0.0135	5.62	1
11031	123478-HxCDD	39227-28-6	0.0458 JQ	0.0131	5.62	1
11031	123678-HxCDD	57653-85-7	0.0725 JBQ	0.0139	5.62	1
11031	123789-HxCDD	19408-74-3	0.0733 JBQ	0.0128	5.62	1
11031	1234678-HpCDD	35822-46-9	0.445 JB	0.0219	5.62	1
11031	OCDD	3268-87-9	1.13 JB	0.0242	11.2	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.12	1
11031	12378-PeCDF	57117-41-6	0.0594 JB	0.00813	5.62	1
11031	23478-PeCDF	57117-31-4	0.102 JB	0.00756	5.62	1
11031	123478-HxCDF	70648-26-9	0.0610 JB	0.0116	5.62	1
11031	123678-HxCDF	57117-44-9	0.0668 JB	0.0109	5.62	1
11031	123789-HxCDF	72918-21-9	0.0670 JB	0.0121	5.62	1
11031	234678-HxCDF	60851-34-5	0.0817 JB	0.0110	5.62	1
11031	1234678-HpCDF	67562-39-4	0.207 JB	0.00882	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0541 JBQ	0.0123	5.62	1
11031	OCDF	39001-02-0	0.201 JBQ	0.0220	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302807
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0109 SDG#: DX094-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302807
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 14:31

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0109 SDG#: DX094-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 11:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11159162401B	06/08/2011 19:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302808
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDP10 SDG#: DX094-17FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302808
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDP10 SDG#: DX094-17FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0230 JBQ	0.0160	1.10	1
11031	12378-PeCDD	40321-76-4	0.0199 JB	0.0154	5.51	1
11031	123478-HxCDD	39227-28-6	0.0136 U	0.0136	5.51	1
11031	123678-HxCDD	57653-85-7	0.0227 JBQ	0.0143	5.51	1
11031	123789-HxCDD	19408-74-3	0.0490 JBQ	0.0136	5.51	1
11031	1234678-HpCDD	35822-46-9	0.594 JBQ	0.0264	5.51	1
11031	OCDD	3268-87-9	2.38 JB	0.0264	11.0	1
11031	2378-TCDF	51207-31-9	0.0136 U	0.0136	1.10	1
11031	12378-PeCDF	57117-41-6	0.0304 JBQ	0.00792	5.51	1
11031	23478-PeCDF	57117-31-4	0.0641 JB	0.00826	5.51	1
11031	123478-HxCDF	70648-26-9	0.0545 JB	0.00962	5.51	1
11031	123678-HxCDF	57117-44-9	0.0269 JBQ	0.00848	5.51	1
11031	123789-HxCDF	72918-21-9	0.0233 JBQ	0.0103	5.51	1
11031	234678-HxCDF	60851-34-5	0.0658 JBQ	0.00882	5.51	1
11031	1234678-HpCDF	67562-39-4	0.198 JB	0.0121	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0355 JBQ	0.0218	5.51	1
11031	OCDF	39001-02-0	0.214 JBQ	0.0284	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302808
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDP10 SDG#: DX094-17FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-10-SA5DN-QC-053111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-10-SA5DN-QC-053111

LLI Sample # SW 6302808
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 11:45

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

XDP10 SDG#: DX094-17FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 12:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302809
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0134 SDG#: DX094-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302809
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0134 SDG#: DX094-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0203 JBQ	0.0132	1.13	1
11031	12378-PeCDD	40321-76-4	0.0197 JBQ	0.0145	5.66	1
11031	123478-HxCDD	39227-28-6	0.0156 U	0.0156	5.66	1
11031	123678-HxCDD	57653-85-7	0.131 JBQ	0.0158	5.66	1
11031	123789-HxCDD	19408-74-3	0.237 JB	0.0153	5.66	1
11031	1234678-HpCDD	35822-46-9	0.422 JB	0.0195	5.66	1
11031	OCDD	3268-87-9	1.32 JB	0.0276	11.3	1
11031	2378-TCDF	51207-31-9	0.0116 U	0.0116	1.13	1
11031	12378-PeCDF	57117-41-6	0.0362 JBQ	0.00763	5.66	1
11031	23478-PeCDF	57117-31-4	0.0825 JBQ	0.00751	5.66	1
11031	123478-HxCDF	70648-26-9	0.0299 JBQ	0.0131	5.66	1
11031	123678-HxCDF	57117-44-9	0.0427 JB	0.0113	5.66	1
11031	123789-HxCDF	72918-21-9	0.268 JB	0.0127	5.66	1
11031	234678-HxCDF	60851-34-5	0.0577 JBQ	0.0121	5.66	1
11031	1234678-HpCDF	67562-39-4	0.217 JB	0.00844	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0278 JB	0.0138	5.66	1
11031	OCDF	39001-02-0	0.207 JB	0.0239	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302809
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:11

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0134 SDG#: DX094-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-4.0-5.0

LLI Sample # SW 6302809
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Collected: 05/31/2011 10:11

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Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0134 SDG#: DX094-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 13:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302810
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0139 SDG#: DX094-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302810
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0139 SDG#: DX094-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0158 U	0.0158	1.11	1
11031	12378-PeCDD	40321-76-4	0.0126 U	0.0126	5.53	1
11031	123478-HxCDD	39227-28-6	0.0112 U	0.0112	5.53	1
11031	123678-HxCDD	57653-85-7	0.0277 JBQ	0.0116	5.53	1
11031	123789-HxCDD	19408-74-3	0.0238 JBQ	0.0112	5.53	1
11031	1234678-HpCDD	35822-46-9	0.445 JB	0.0218	5.53	1
11031	OCDD	3268-87-9	0.990 JBQ	0.0299	11.1	1
11031	2378-TCDF	51207-31-9	0.0135 U	0.0135	1.11	1
11031	12378-PeCDF	57117-41-6	0.0135 JB	0.00788	5.53	1
11031	23478-PeCDF	57117-31-4	0.0384 JBQ	0.00742	5.53	1
11031	123478-HxCDF	70648-26-9	0.0438 JBQ	0.0107	5.53	1
11031	123678-HxCDF	57117-44-9	0.0250 JBQ	0.00982	5.53	1
11031	123789-HxCDF	72918-21-9	0.0106 U	0.0106	5.53	1
11031	234678-HxCDF	60851-34-5	0.0716 JBQ	0.00970	5.53	1
11031	1234678-HpCDF	67562-39-4	0.208 JBQ	0.00788	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0233 JBQ	0.0130	5.53	1
11031	OCDF	39001-02-0	0.184 JB	0.0209	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	49	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302810
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0139 SDG#: DX094-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DN-SB-9.0-10.0

LLI Sample # SW 6302810
LLI Group # 1249338
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 05/31/2011 10:19

Submitted: 06/01/2011 09:35
Reported: 06/22/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X0139 SDG#: DX094-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161004	06/16/2011 14:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11161004	06/11/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249338
Reported: 06/22/11 at 11:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11159162401B	Sample number(s): 6302804-6302807								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162402B	Sample number(s): 6302809-6302810								
Moisture Content by 160.3					100		80-120		
Batch number: 11168162401A	Sample number(s): 6302808								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11161004	Sample number(s): 6302804-6302810								
2378-TCDD	0.0293 J	0.0208	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0393 J	0.0207	5.00	ng/kg	87		70-142		
123478-HxCDD	0.0220 U	0.0220	5.00	ng/kg	89		70-164		
123678-HxCDD	0.0749 J	0.0226	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0576 J	0.0222	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.392 J	0.0365	5.00	ng/kg	87		70-140		
OCDD	0.908 J	0.0402	10.0	ng/kg	90		78-144		
2378-TCDF	0.0325 J	0.0178	1.00	ng/kg	87		75-158		
12378-PeCDF	0.0495 J	0.0110	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0792 J	0.0109	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0820 J	0.0170	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0553 J	0.0157	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0995 J	0.0173	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0978 J	0.0154	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.236 J	0.0145	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.107 J	0.0220	5.00	ng/kg	91		78-138		
OCDF	0.347 J	0.0453	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11159162401B	Sample number(s): 6302804-6302807					BKG: P302800			
Moisture Content by 160.3						12.7	13.7	7	20
Batch number: 11167162402B	Sample number(s): 6302809-6302810					BKG: P302802			
Moisture Content by 160.3						13.5	14.7	8	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249338
Reported: 06/22/11 at 11:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11168162401A	Sample number(s): 6302808			BKG: P314471					
Moisture Content by 160.3						16.3	16.2	0	20
Batch number: 11161004	Sample number(s): 6302804-6302810					UNSPK: P301501			
2378-TCDD	84	84	67-158	1	25				
12378-PeCDD	89	89	70-142	2	25				
123478-HxCDD	90	90	70-164	1	25				
123678-HxCDD	92	92	76-134	1	25				
123789-HxCDD	88	90	64-162	3	25				
1234678-HpCDD	172*	197*	70-140	14	25				
OCDD	781*	986*	78-144	23	25				
2378-TCDF	89	86	75-158	2	25				
12378-PeCDF	87	89	80-134	3	25				
23478-PeCDF	90	89	68-160	0	25				
123478-HxCDF	92	93	72-134	3	25				
123678-HxCDF	91	92	84-130	1	25				
123789-HxCDF	91	91	78-130	2	25				
234678-HxCDF	93	92	70-156	0	25				
1234678-HpCDF	95	97	82-122	3	25				
1234789-HpCDF	91	91	78-138	1	25				
OCDF	101	103	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11161004

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6302804	56	59	58	62	65	73
6302805	69	67	71	73	72	76
6302806	75	72	72	76	76	82
6302807	69	65	68	72	71	78
6302808	68	62	63	68	65	67
6302809	67	64	64	70	69	72
6302810	56	58	60	65	63	66
Blank	73	68	71	76	76	81
MS	74	65	70	72	70	74
MSD	74	67	70	72	72	76
OPR	60	57	66	69	67	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6302804	71	70	65	75	66	72

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249338
Reported: 06/22/11 at 11:17 PM

Surrogate Quality Control

6302805	82	72	67	79	75	79
6302806	88	77	71	91	80	84
6302807	85	72	67	84	73	78
6302808	84	56	44	80	71	74
6302809	87	64	58	85	72	77
6302810	82	59	52	79	65	72
Blank	83	66	53	91	74	84
MS	69	62	54	82	70	75
MSD	71	64	56	82	71	75
OPR	72	56	46	77	62	73
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6302804	67	71	76	72	50	57
6302805	76	79	83	80	62	68
6302806	81	85	88	84	67	74
6302807	75	78	84	79	62	66
6302808	71	74	76	68	60	67
6302809	75	78	80	77	59	66
6302810	68	71	75	71	49	59
Blank	80	82	77	64	66	71
MS	72	75	69	61	68	68
MSD	74	76	71	63	68	69
OPR	70	72	67	55	54	58
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Acct #13013 LL# 6302804-10 GR#1249338

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hall

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-008-SA5DN-SB-4.5	5/31/11	1540	SOIL	NONE	4-Encores										X	X											
SL-008-SA5DN-SB-4.0-5.0	5/31/11	1544	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-008-SA5DN-SB-9.0-10.0	5/31/11	1549	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-010-SA5DN-SB-4.5	5/31/11	1419	SOIL	NONE	4-Encores										X	X											
SL-010-SA5DN-SB-4.0-5.0	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-010-SA5DN-SB-9.0-10.0	5/31/11	1431	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X													
DUP-10-SA5DN-QC-053111	5/31/11	1145	SOIL	NONE	5-Encores										X	X	X										
DUP-10-SA5DN-QC-053111	5/31/11	1145	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-013-SA5DN-SB-4.5	5/31/11	1007	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-4.0-5.0	5/31/11	1011	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-013-SA5DN-SB-9.5	5/31/11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-013-SA5DN-SB-9.0-10.0	5/31/11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-014-SA5DN-SB-4.5MS	5/31/11	1135	SOIL	NONE	15-Encores										X	X	X										MS/MSD sample
SL-014-SA5DN-SB-4.0-5.0MS	5/31/11	1140	SOIL	NONE	12-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-014-SA5DN-SB-9.5	5/31/11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-014-SA5DN-SB-9.0-10.0	5/31/11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	5-1 L ambers			X	X	X																	
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	1-500 mL poly		X				X	X	X														
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	HNO3	1-500 mL poly	X																					
EB11-SA5DN-SB-053111	5/31/11	1250	WATER	NONE	6-40 mL vials										X	X											
TB-053111	5/31/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	05/31/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	6/1/11 0956	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

Acct #13013 LL# 6302804-10 GR# 1249338

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0840	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-094-SA5DN-SS-0.0-0.5	5/31/11	0840	SOIL	NONE	1-SS sleeve			X	X																	
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-095-SA5DN-SS-0.0-0.5	5/31/11	0905	SOIL	NONE	1-SS sleeve			X	X																	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-097-SA5DN-SS-0.0-0.5	5/31/11	0930	SOIL	NONE	1-SS sleeve			X	X																	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-098-SA5DN-SS-0.0-0.5	5/31/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-099-SA5DN-SS-0.0-0.5	5/31/11	1405	SOIL	NONE	1-SS sleeve			X	X																	
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-101-SA5DN-SS-0.0-0.5	5/31/11	1530	SOIL	NONE	1-SS sleeve			X	X																	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-102-SA5DN-SS-0.0-0.5	5/31/11	1320	SOIL	NONE	1-SS sleeve			X	X																	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-103-SA5DN-SS-0.0-0.5	5/31/11	1105	SOIL	NONE	1-SS sleeve			X	X																	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-104-SA5DN-SS-0.0-0.5	5/31/11	1125	SOIL	NONE	1-SS sleeve			X	X																	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-110-SA5DN-SS-0.0-0.5	5/31/11	1550	SOIL	NONE	1-SS sleeve			X	X																	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-111-SA5DN-SS-0.0-0.5	5/31/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-112-SA5DN-SS-0.0-0.5	5/31/11	1445	SOIL	NONE	1-SS sleeve			X	X																	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-113-SA5DN-SS-0.0-0.5	5/31/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X				X						
SL-114-SA5DN-SS-0.0-0.5	5/31/11	1510	SOIL	NONE	2-16 oz jars			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/31/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	6/1/11 0935	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

Acct # 13013 LL# 6302804-10 GR# 1249335

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-121-SA5DN-SS-0.0-0.5	5/31/11	1040	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-121-SA5DN-SS-0.0-0.5	5/31/11	1040	SOIL	NONE	1-SS sleeve			X	X																	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-125-SA5DN-SS-0.0-0.5	5/31/11	1015	SOIL	NONE	1-SS sleeve			X	X																	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	12-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HNO3	1-500 mL poly	X																				
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	1-500 mL poly		X				X	X	X													
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NaOH	1-500 mL glass																	X				
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	None	1-250 mL glass														X							
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	HCl	2-40 mL vial																				X	
EB10-SA5DN-SS-053111	5/31/11	1215	WATER	NONE	4-40 mL vial													X						X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	05/31/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/1/11 0935	8695 1442 0968; 8695 1441 0979 8695 1441 0980; 8695 1441 0990 8695 1441 1004; 8695 1441 1015	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304839
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16901 SDG#: DE170-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	176	U	176	352		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	21	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	25	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	19	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	150	J	18	350		1
04688	Fluoranthene	206-44-0	34	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304839
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16901 SDG#: DE170-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	36	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The recoveries of several compounds were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	360		81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304839
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16901 SDG#: DE170-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	2.2	J	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	2.5		0.35	1.8		5
01363	p,p-DDT	50-29-3	1.9		0.35	1.8		5
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.33	U	0.33	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.34	U	0.34	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.11	U	0.11	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

The LCS recoveries for endrin, 4,4,-DDT, and methoxychlor are outside the upper QC limit. The surrogates associated with the LCS and this sample are outside the QC limits.
The sample was reextracted outside the method hold time. The LCS recovery for endosulfan II is outside the upper QC limit. The surrogate recoveries for the LCS are within the QC limits. The surrogate recoveries for the sample are outside the lower QC limit. DDE and DDT were not detected in the reextract. The original data is reported.

Reporting limits were raised for various compounds due to interference from PCBs.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	3.9		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304839
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16901 SDG#: DE170-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	4.0		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.29	21.0		1
07914	Boron	7440-42-8	10.3		0.379	5.26		1
01650	Calcium	7440-70-2	4,410		6.45	21.0		1
01654	Iron	7439-89-6	27,200		4.96	21.0		1
01656	Lithium	7439-93-2	20.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,290		2.67	10.5		1
06958	Manganese	7439-96-5	473		0.0821	0.526		1
10145	Phosphorus	7723-14-0	347		0.589	10.5		1
01662	Potassium	7440-09-7	4,580		18.9	52.6		1
01667	Sodium	7440-23-5	90.6	J	39.2	105		1
07968	Strontium	7440-24-6	27.0		0.0652	0.526		1
06969	Tin	7440-31-5	3.28	J	0.337	10.5		1
06970	Titanium	7440-32-6	1,250		0.0747	1.05		1
10146	Zirconium	7440-67-7	4.40	J	0.884	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0625	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.08		0.0833	0.417		2
06126	Barium	7440-39-3	159		0.113	0.417		2
06127	Beryllium	7440-41-7	0.857		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.495		0.0417	0.104		2
06131	Chromium	7440-47-3	33.4		0.125	0.417		2
06132	Cobalt	7440-48-4	10.9		0.0208	0.104		2
06133	Copper	7440-50-8	18.9		0.0688	0.417		2
06135	Lead	7439-92-1	48.4		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.744		0.0521	0.104		2
06139	Nickel	7440-02-0	25.4		0.104	0.417		2
06141	Selenium	7782-49-2	0.194	J	0.0417	0.417		2
06142	Silver	7440-22-4	0.0597	J	0.0125	0.104		2
06145	Thallium	7440-28-0	0.403		0.0313	0.104		2
06148	Vanadium	7440-62-2	56.6		0.0229	0.104		2
06149	Zinc	7440-66-6	88.5		0.583	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.120		0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.85	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304839
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16901 SDG#: DE170-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.6	U	9.6	31.9		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.47	J	0.21	1.1		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	7.27		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	5.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11154SLA026	06/23/2011	14:35	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLE026	06/13/2011	17:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLC026	06/22/2011	12:34	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11154SLA026	06/04/2011	04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLC026	06/08/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLE026	06/07/2011	08:15	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111650019A	06/17/2011	07:43	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111590015A	06/19/2011	23:55	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111590015A	06/20/2011	00:09	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580008A	06/10/2011	04:22	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111590015A	06/08/2011	18:55	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580008A	06/07/2011	15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111650019A	06/15/2011	02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	111595708006	06/14/2011	08:04	Joanne M Gates	1
07914	Boron	SW-846 6010B	2	111595708006	06/15/2011	09:48	Joanne M Gates	1

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Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304839
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16901 SDG#: DE170-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111655708005	06/16/2011 08:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111655708005	06/15/2011 19:25	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111595708006	06/14/2011 08:04	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111591026002D	06/11/2011 11:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111591026002A	06/11/2011 17:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111591026002C	06/11/2011 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111591026002B	06/11/2011 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111591026002A	06/11/2011 11:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711005	06/10/2011 13:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111595708006	06/09/2011 09:13	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111655708005	06/14/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111591026002	06/09/2011 08:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711005	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11167167201A	06/17/2011 13:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 02:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243201A	06/13/2011 19:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11167167201A	06/16/2011 09:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11161243201A	06/10/2011 11:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-100-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304839
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16901 SDG#: DE170-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	177	U	177	355		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Butylbenzylphthalate	85-68-7	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The recoveries of several compounds were above QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	36		3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	60		1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	160		3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	150		3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	190		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	83		3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	100		3.5	8.8		5
10138	Chrysene	218-01-9	170		1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	25		3.5	8.8		5
10138	Fluoranthene	206-44-0	360		3.5	8.8		5
10138	Fluorene	86-73-7	20		3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	82		3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.6	J	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Phenanthrene	85-01-8	160		3.5	8.8		5
10138	Pyrene	129-00-0	280		3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	510		81	270		1
10401	MCPP (Mecoprop)	93-65-2	280		80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.3		1

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Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	2.8	J	0.85	3.6		1
01363	p,p-DDD	72-54-8	1.5		0.070	0.36		1
01363	p,p-DDE	72-55-9	12		0.70	3.6		10
01363	p,p-DDT	50-29-3	3.8		0.70	3.6		10
01363	Delta BHC	319-86-8	0.064	U	0.064	0.18		1
01363	Dieldrin	60-57-1	0.47	U	0.47	0.47		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.22	U	0.22	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.22		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.085	U	0.085	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

The LCS recoveries for endrin, 4,4,-DDT, and methoxychlor are outside the upper QC limit. The surrogates associated with the LCS and this sample are outside the QC limits.
The sample was reextracted outside the method hold time. The LCS recovery for endosulfan II is outside the upper QC limit. The surrogate recoveries for the LCS are within the QC limits. The surrogate recoveries for the sample are outside the QC limits. The results for DDD, DDE and DDT were not similar due to non- homogeneity of the sample. The original data is reported.

Reporting limits were raised due to interference from the PCBs and sample matrix.

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	11	U	11	35		10
10225	Aroclor 5442	12642-23-8	11	U	11	35		10
10225	Aroclor 5460	11126-42-4	11	U	11	35		10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18		10
10225	PCB-1221	11104-28-2	3.5	U	3.5	18		10
10225	PCB-1232	11141-16-5	3.5	U	3.5	18		10
10225	PCB-1242	53469-21-9	3.5	U	3.5	18		10
10225	PCB-1248	12672-29-6	3.5	U	3.5	18		10
10225	PCB-1254	11097-69-1	3.5	U	3.5	18		10
10225	PCB-1260	11096-82-5	4.2	U	4.2	18		10
10225	PCB-1262	37324-23-5	3.5	U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18		10

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	22		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	77		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		5.32	21.1		1
07914	Boron	7440-42-8	10.9		0.380	5.28		1
01650	Calcium	7440-70-2	8,750		6.48	21.1		1
01654	Iron	7439-89-6	28,900		24.9	106		5
01656	Lithium	7439-93-2	20.7		0.23	2.1		1
01657	Magnesium	7439-95-4	5,280		2.68	10.6		1
06958	Manganese	7439-96-5	1,590		0.412	2.64		5
10145	Phosphorus	7723-14-0	402		0.592	10.6		1
01662	Potassium	7440-09-7	3,800		19.0	52.8		1
01667	Sodium	7440-23-5	100	J	39.4	106		1
07968	Strontium	7440-24-6	34.7		0.0655	0.528		1
06969	Tin	7440-31-5	3.26	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,270		0.0758	1.07		1
10146	Zirconium	7440-67-7	3.93	J	0.888	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.220		0.0622	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.88		0.0829	0.414		2
06126	Barium	7440-39-3	125		0.112	0.414		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	1.04		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.684		0.0414	0.104		2
06131	Chromium	7440-47-3	44.0		0.124	0.414		2
06132	Cobalt	7440-48-4	15.0		0.0207	0.104		2
06133	Copper	7440-50-8	26.5		0.0684	0.414		2
06135	Lead	7439-92-1	12.5		0.0108	0.207		2
06138	Molybdenum	7439-98-7	1.11		0.0518	0.104		2
06139	Nickel	7440-02-0	34.6		0.104	0.414		2
06141	Selenium	7782-49-2	0.216	J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0903	J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.521		0.0311	0.104		2
06148	Vanadium	7440-62-2	73.9		0.0228	0.104		2
06149	Zinc	7440-66-6	139		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.321		0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.71		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
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16902 SDG#: DE170-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11154SLA026	06/23/2011 15:28	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11157SLE026	06/13/2011 17:46	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLC026	06/22/2011 13:12	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11154SLA026	06/04/2011 04:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLC026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11157SLE026	06/07/2011 08:15	Katheryne V Sponheimer	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111580012A	06/10/2011 23:28	Michele D Hamilton	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111570004A	06/08/2011 23:45	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111650019A	06/17/2011 08:10	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 13:03	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111590015A	06/20/2011 00:36	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111590015A	06/20/2011 00:50	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111580008A	06/10/2011 04:40	Sarah M Snyder	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111590015A	06/08/2011 18:55	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111580008A	06/07/2011 15:00	Olivia I Santiago	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	111650019A	06/15/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111570004A	06/07/2011 11:55	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111580012A	06/07/2011 14:30	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 14:03	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/03/2011 21:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111530019A	06/06/2011 18:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 12:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111530019A	06/06/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
07914	Boron	SW-846 6010B	2	111595708006	06/15/2011 09:51	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111595708006	06/14/2011 08:20	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111595708006	06/14/2011 08:20	Joanne M Gates	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111655708005	06/16/2011 08:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111655708005	06/15/2011 19:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111595708006	06/14/2011 08:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111591026002D	06/11/2011 17:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111591026002A	06/11/2011 17:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111591026002C	06/11/2011 11:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111591026002B	06/11/2011 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111591026002A	06/11/2011 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711005	06/10/2011 13:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111595708006	06/09/2011 09:13	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111655708005	06/14/2011 20:32	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111591026002	06/09/2011 08:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711005	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11167167201A	06/17/2011 14:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11167167201A	06/17/2011 14:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11157495204A	06/14/2011 03:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243201A	06/13/2011 19:30	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201A	06/08/2011 09:03	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11167167201A	06/16/2011 09:00	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11157495204A	06/06/2011 21:45	James S Mathiot	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201A	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11157039402B	06/06/2011 14:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11161243201A	06/10/2011 11:00	Michelle L Lalli	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-105-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304840
LLI Group # 1249611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 07/06/2011 12:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

16902 SDG#: DE170-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

acct# 13013 Ap# 1249611 samp6# 6304839-63

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-100-SA5DN-SS-0.0-0.5	6/1/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-100-SA5DN-SS-0.0-0.5	6/1/11	1525	SOIL	NONE	1-8 oz jar															X						
SL-100-SA5DN-SS-0.0-0.5	6/1/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-105-SA5DN-SS-0.0-0.5	6/1/11	1335	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-105-SA5DN-SS-0.0-0.5	6/1/11	1335	SOIL	NONE	1-SS sleeve			X	X																	
SL-106-SA5DN-SS-0.0-0.5	6/1/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-106-SA5DN-SS-0.0-0.5	6/1/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-107-SA5DN-SS-0.0-0.5	6/1/11	1410	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-107-SA5DN-SS-0.0-0.5	6/1/11	1410	SOIL	NONE	1-SS sleeve			X	X																	
SL-108-SA5DN-SS-0.0-0.5MS	6/1/11	1430	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-108-SA5DN-SS-0.0-0.5MS	6/1/11	1430	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-109-SA5DN-SS-0.0-0.5	6/1/11	1510	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-109-SA5DN-SS-0.0-0.5	6/1/11	1510	SOIL	NONE	1-SS sleeve			X	X																	
SL-123-SA5DN-SS-0.0-0.5	6/1/11	1020	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-123-SA5DN-SS-0.0-0.5	6/1/11	1020	SOIL	NONE	1-SS sleeve			X	X																	
SL-124-SA5DN-SS-0.0-0.5	6/1/11	1045	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-124-SA5DN-SS-0.0-0.5	6/1/11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-126-SA5DN-SS-0.0-0.5	6/1/11	1115	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-126-SA5DN-SS-0.0-0.5	6/1/11	1115	SOIL	NONE	1-SS sleeve			X	X																	
SL-127-SA5DN-SS-0.0-0.5	6/1/11	1135	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-127-SA5DN-SS-0.0-0.5	6/1/11	1135	SOIL	NONE	1-SS sleeve			X	X																	
SL-128-SA5DN-SS-0.0-0.5	6/1/11	0920	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-128-SA5DN-SS-0.0-0.5	6/1/11	0920	SOIL	NONE	1-SS sleeve			X	X																	
SL-129-SA5DN-SS-0.0-0.5	6/1/11	0850	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-129-SA5DN-SS-0.0-0.5	6/1/11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-130-SA5DN-SS-0.0-0.5	6/1/11	0830	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-130-SA5DN-SS-0.0-0.5	6/1/11	0830	SOIL	NONE	1-SS sleeve			X	X																	
SL-148-SA5DN-SS-0.0-0.5	6/1/11	1550	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X										
SL-148-SA5DN-SS-0.0-0.5	6/1/11	1550	SOIL	NONE	1-SS sleeve			X	X																	
DUP-11-SA5DN-QC-060111	6/1/11	1440	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-11-SA5DN-QC-060111	6/1/11	1440	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/01/2011 / 1700	6/2/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 1026; 8695 1441 1037 8695 1441 1048	

acct#13013 Cap#1249611 Sample#6304839-63

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hooton

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-015-SA5DN-SB-4.5	6/1/11	1540	SOIL	NONE	5-Encores										X	X	X										
SL-015-SA5DN-SB-4.0-5.0	6/1/11	1545	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-015-SA5DN-SB-12.5	6/1/11	1550	SOIL	NONE	5-Encores										X	X	X										
SL-015-SA5DN-SB-12.0-13.0	6/1/11	1554	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-017-SA5DN-SB-4.5	6/1/11	1230	SOIL	NONE	4-Encores										X	X											
SL-017-SA5DN-SB-4.0-5.0	6/1/11	1235	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-017-SA5DN-SB-7.0-8.0	6/1/11	1239	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-018-SA5DN-SB-4.5	6/1/11	1111	SOIL	NONE	5-Encores										X	X	X										
SL-018-SA5DN-SB-4.0-5.0	6/1/11	1116	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-018-SA5DN-SB-8.0	6/1/11	1121	SOIL	NONE	5-Encores										X	X	X										
SL-018-SA5DN-SB-7.5-8.5	6/1/11	1125	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-060111	6/1/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
Brook Moon	06/1/2011 / 1700	Dawn Hull 6/2/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8695 1442 1026; 8695 1441 1037 8695 1441 1048	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/02/2011
Group Number: 1249617
SDG: DX096
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-100-SA5DN-SS-0.0-0.5 Soil	6304871
SL-105-SA5DN-SS-0.0-0.5 Soil	6304872
SL-106-SA5DN-SS-0.0-0.5 Soil	6304873
SL-107-SA5DN-SS-0.0-0.5 Soil	6304874
SL-108-SA5DN-SS-0.0-0.5 Soil	6304875
SL-108-SA5DN-SS-0.0-0.5MS Soil	6304876
SL-108-SA5DN-SS-0.0-0.5MSD Soil	6304877
SL-109-SA5DN-SS-0.0-0.5 Soil	6304878
SL-123-SA5DN-SS-0.0-0.5 Soil	6304879
SL-124-SA5DN-SS-0.0-0.5 Soil	6304880
SL-126-SA5DN-SS-0.0-0.5 Soil	6304881
SL-127-SA5DN-SS-0.0-0.5 Soil	6304882
SL-128-SA5DN-SS-0.0-0.5 Soil	6304883
SL-129-SA5DN-SS-0.0-0.5 Soil	6304884
SL-130-SA5DN-SS-0.0-0.5 Soil	6304885
SL-148-SA5DN-SS-0.0-0.5 Soil	6304886
DUP-11-SA5DN-QC-060111 Soil	6304887
SL-015-SA5DN-SB-4.0-5.0 Soil	6304888
SL-015-SA5DN-SB-12.0-13.0 Soil	6304889
SL-017-SA5DN-SB-4.0-5.0 Soil	6304890
SL-017-SA5DN-SB-7.0-8.0 Soil	6304891
SL-018-SA5DN-SB-4.0-5.0 Soil	6304892
SL-018-SA5DN-SB-7.5-8.5 Soil	6304893

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304871
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9601 SDG#: DX096-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304871
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9601 SDG#: DX096-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0569	J	0.00840	1.03	1
11031	12378-PeCDD	40321-76-4	0.364	J	0.0153	5.17	1
11031	123478-HxCDD	39227-28-6	0.595	JB	0.0164	5.17	1
11031	123678-HxCDD	57653-85-7	2.96	JB	0.0175	5.17	1
11031	123789-HxCDD	19408-74-3	1.85	JB	0.0166	5.17	1
11031	1234678-HpCDD	35822-46-9	82.6	B	0.0506	5.17	1
11031	OCDD	3268-87-9	1,340	B	0.0597	10.3	1
11031	2378-TCDF	51207-31-9	0.241	J	0.0261	1.03	1
11031	12378-PeCDF	57117-41-6	0.405	JB	0.0138	5.17	1
11031	23478-PeCDF	57117-31-4	0.512	JB	0.0135	5.17	1
11031	123478-HxCDF	70648-26-9	0.577	JB	0.0131	5.17	1
11031	123678-HxCDF	57117-44-9	0.337	JB	0.0119	5.17	1
11031	123789-HxCDF	72918-21-9	0.966	JB	0.0142	5.17	1
11031	234678-HxCDF	60851-34-5	0.492	JB	0.0133	5.17	1
11031	1234678-HpCDF	67562-39-4	7.38	B	0.0138	5.17	1
11031	1234789-HpCDF	55673-89-7	0.547	JB	0.0193	5.17	1
11031	OCDF	39001-02-0	28.0	B	0.0166	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-100-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304871
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9601 SDG#: DX096-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-100-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304871
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9601 SDG#: DX096-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159001	06/13/2011 15:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159001	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

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Analysis Report

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304872
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9602 SDG#: DX096-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304872
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9602 SDG#: DX096-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0756	JBQ	0.0211	1.06	1
11031	12378-PeCDD	40321-76-4	0.781	JB	0.0585	5.31	1
11031	123478-HxCDD	39227-28-6	1.46	JB	0.0752	5.31	1
11031	123678-HxCDD	57653-85-7	6.60	B	0.0773	5.31	1
11031	123789-HxCDD	19408-74-3	3.34	JB	0.0745	5.31	1
11031	1234678-HpCDD	35822-46-9	214	B	0.220	5.31	1
11031	OCDD	3268-87-9	3,740	B	0.187	10.6	1
11031	2378-TCDF	51207-31-9	0.128	U	0.128	1.06	1
11031	12378-PeCDF	57117-41-6	1.06	JB	0.0635	5.31	1
11031	23478-PeCDF	57117-31-4	1.01	JB	0.0606	5.31	1
11031	123478-HxCDF	70648-26-9	1.92	JB	0.0674	5.31	1
11031	123678-HxCDF	57117-44-9	0.845	JB	0.0644	5.31	1
11031	123789-HxCDF	72918-21-9	0.983	JB	0.0667	5.31	1
11031	234678-HxCDF	60851-34-5	1.21	JB	0.0662	5.31	1
11031	1234678-HpCDF	67562-39-4	20.7	B	0.0661	5.31	1
11031	1234789-HpCDF	55673-89-7	1.75	JB	0.0888	5.31	1
11031	OCDF	39001-02-0	75.7	B	0.0715	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-105-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304872
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9602 SDG#: DX096-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-105-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304872
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9602 SDG#: DX096-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 15:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304873
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9603 SDG#: DX096-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304873
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9603 SDG#: DX096-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.134	JB	0.0221	1.05	1
11031	12378-PeCDD	40321-76-4	0.521	JB	0.0501	5.27	1
11031	123478-HxCDD	39227-28-6	0.828	JBQ	0.0740	5.27	1
11031	123678-HxCDD	57653-85-7	2.84	JB	0.0751	5.27	1
11031	123789-HxCDD	19408-74-3	1.91	JB	0.0708	5.27	1
11031	1234678-HpCDD	35822-46-9	85.4	B	0.144	5.27	1
11031	OCDD	3268-87-9	1,520	B	0.132	10.5	1
11031	2378-TCDF	51207-31-9	0.250	J	0.0936	1.05	1
11031	12378-PeCDF	57117-41-6	0.995	JB	0.0476	5.27	1
11031	23478-PeCDF	57117-31-4	0.698	JB	0.0474	5.27	1
11031	123478-HxCDF	70648-26-9	0.884	JB	0.0661	5.27	1
11031	123678-HxCDF	57117-44-9	0.587	JB	0.0596	5.27	1
11031	123789-HxCDF	72918-21-9	1.06	JB	0.0730	5.27	1
11031	234678-HxCDF	60851-34-5	0.677	JB	0.0636	5.27	1
11031	1234678-HpCDF	67562-39-4	8.38	B	0.0465	5.27	1
11031	1234789-HpCDF	55673-89-7	0.845	JB	0.0691	5.27	1
11031	OCDF	39001-02-0	29.5	B	0.0476	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304873
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9603 SDG#: DX096-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304873
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 13:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9603 SDG#: DX096-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 16:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-107-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304874
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9604 SDG#: DX096-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304874
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9604 SDG#: DX096-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0355	JBQ	0.0159	1.03	1
11031	12378-PeCDD	40321-76-4	0.612	JBQ	0.0387	5.16	1
11031	123478-HxCDD	39227-28-6	0.902	JB	0.0565	5.16	1
11031	123678-HxCDD	57653-85-7	2.52	JB	0.0592	5.16	1
11031	123789-HxCDD	19408-74-3	1.79	JB	0.0561	5.16	1
11031	1234678-HpCDD	35822-46-9	65.2	B	0.133	5.16	1
11031	OCDD	3268-87-9	1,110	B	0.0852	10.3	1
11031	2378-TCDF	51207-31-9	0.237	JQ	0.0732	1.03	1
11031	12378-PeCDF	57117-41-6	0.802	JB	0.0349	5.16	1
11031	23478-PeCDF	57117-31-4	0.767	JB	0.0346	5.16	1
11031	123478-HxCDF	70648-26-9	0.807	JBQ	0.0498	5.16	1
11031	123678-HxCDF	57117-44-9	0.649	JB	0.0444	5.16	1
11031	123789-HxCDF	72918-21-9	0.854	JB	0.0498	5.16	1
11031	234678-HxCDF	60851-34-5	0.704	JB	0.0462	5.16	1
11031	1234678-HpCDF	67562-39-4	8.32	B	0.0386	5.16	1
11031	1234789-HpCDF	55673-89-7	0.836	JB	0.0559	5.16	1
11031	OCDF	39001-02-0	30.4	B	0.0460	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304874
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9604 SDG#: DX096-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-107-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304874
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9604 SDG#: DX096-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 17:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162402B	06/16/2011 18:34	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304875
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304875
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444	JBQ	0.0242	1.05	1
11031	12378-PeCDD	40321-76-4	0.390	JB	0.0576	5.25	1
11031	123478-HxCDD	39227-28-6	0.761	JB	0.0842	5.25	1
11031	123678-HxCDD	57653-85-7	3.62	JB	0.0869	5.25	1
11031	123789-HxCDD	19408-74-3	2.11	JB	0.0837	5.25	1
11031	1234678-HpCDD	35822-46-9	108	B	0.162	5.25	1
11031	OCDD	3268-87-9	1,790	B	0.130	10.5	1
11031	2378-TCDF	51207-31-9	0.360	J	0.135	1.05	1
11031	12378-PeCDF	57117-41-6	1.05	JB	0.0648	5.25	1
11031	23478-PeCDF	57117-31-4	0.722	JB	0.0634	5.25	1
11031	123478-HxCDF	70648-26-9	0.802	JB	0.0668	5.25	1
11031	123678-HxCDF	57117-44-9	0.475	JB	0.0633	5.25	1
11031	123789-HxCDF	72918-21-9	0.646	JB	0.0681	5.25	1
11031	234678-HxCDF	60851-34-5	0.586	JB	0.0662	5.25	1
11031	1234678-HpCDF	67562-39-4	9.73	B	0.0599	5.25	1
11031	1234789-HpCDF	55673-89-7	0.827	JB	0.0824	5.25	1
11031	OCDF	39001-02-0	35.0	B	0.0805	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304875
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304875
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 18:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304876
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304876
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.8	B	0.0322	1.04	1
11031	12378-PeCDD	40321-76-4	94.8	B	0.0592	5.22	1
11031	123478-HxCDD	39227-28-6	95.0	B	0.141	5.22	1
11031	123678-HxCDD	57653-85-7	99.1	B	0.144	5.22	1
11031	123789-HxCDD	19408-74-3	97.0	B	0.136	5.22	1
11031	1234678-HpCDD	35822-46-9	208	B	0.186	5.22	1
11031	OCDD	3268-87-9	2,010	B	0.161	10.4	1
11031	2378-TCDF	51207-31-9	18.3		0.169	1.04	1
11031	12378-PeCDF	57117-41-6	96.7	B	0.0863	5.22	1
11031	23478-PeCDF	57117-31-4	93.7	B	0.0804	5.22	1
11031	123478-HxCDF	70648-26-9	97.8	B	0.0793	5.22	1
11031	123678-HxCDF	57117-44-9	98.6	B	0.0770	5.22	1
11031	123789-HxCDF	72918-21-9	97.6	B	0.0832	5.22	1
11031	234678-HxCDF	60851-34-5	97.7	B	0.0773	5.22	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0759	5.22	1
11031	1234789-HpCDF	55673-89-7	97.3	B	0.101	5.22	1
11031	OCDF	39001-02-0	229	B	0.0922	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304876
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304876
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 19:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304877
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304877
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.6	B	0.0364	1.04	1
11031	12378-PeCDD	40321-76-4	93.3	B	0.0608	5.21	1
11031	123478-HxCDD	39227-28-6	96.8	B	0.0824	5.21	1
11031	123678-HxCDD	57653-85-7	98.1	B	0.0866	5.21	1
11031	123789-HxCDD	19408-74-3	95.9	B	0.0831	5.21	1
11031	1234678-HpCDD	35822-46-9	204	B	0.180	5.21	1
11031	OCDD	3268-87-9	2,020	B	0.151	10.4	1
11031	2378-TCDF	51207-31-9	18.4		0.154	1.04	1
11031	12378-PeCDF	57117-41-6	95.7	B	0.0886	5.21	1
11031	23478-PeCDF	57117-31-4	95.7	B	0.0838	5.21	1
11031	123478-HxCDF	70648-26-9	95.4	B	0.116	5.21	1
11031	123678-HxCDF	57117-44-9	93.7	B	0.109	5.21	1
11031	123789-HxCDF	72918-21-9	96.5	B	0.117	5.21	1
11031	234678-HxCDF	60851-34-5	95.4	B	0.106	5.21	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0765	5.21	1
11031	1234789-HpCDF	55673-89-7	96.6	B	0.0997	5.21	1
11031	OCDF	39001-02-0	231	B	0.0754	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-108-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304877
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-108-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304877
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9605 SDG#: DX096-05MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 20:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304878
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9606 SDG#: DX096-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304878
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9606 SDG#: DX096-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0724	JB	0.0205	1.07	1
11031	12378-PeCDD	40321-76-4	0.463	JB	0.0546	5.34	1
11031	123478-HxCDD	39227-28-6	0.897	JB	0.0892	5.34	1
11031	123678-HxCDD	57653-85-7	3.99	JB	0.0938	5.34	1
11031	123789-HxCDD	19408-74-3	2.25	JB	0.0906	5.34	1
11031	1234678-HpCDD	35822-46-9	119	B	0.162	5.34	1
11031	OCDD	3268-87-9	2,130	B	0.136	10.7	1
11031	2378-TCDF	51207-31-9	0.364	J	0.107	1.07	1
11031	12378-PeCDF	57117-41-6	1.03	JB	0.0514	5.34	1
11031	23478-PeCDF	57117-31-4	0.905	JB	0.0478	5.34	1
11031	123478-HxCDF	70648-26-9	1.28	JB	0.0699	5.34	1
11031	123678-HxCDF	57117-44-9	0.676	JB	0.0676	5.34	1
11031	123789-HxCDF	72918-21-9	1.27	JB	0.0680	5.34	1
11031	234678-HxCDF	60851-34-5	0.943	JB	0.0655	5.34	1
11031	1234678-HpCDF	67562-39-4	10.6	B	0.0471	5.34	1
11031	1234789-HpCDF	55673-89-7	1.85	JB	0.0598	5.34	1
11031	OCDF	39001-02-0	37.2	B	0.0493	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304878
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9606 SDG#: DX096-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304878
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:10

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9606 SDG#: DX096-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 21:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11167162401B	06/16/2011 18:09	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304879
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9607 SDG#: DX096-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304879
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9607 SDG#: DX096-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.163	JBQ	0.0165	1.05	1
11031	12378-PeCDD	40321-76-4	0.990	JB	0.0550	5.24	1
11031	123478-HxCDD	39227-28-6	1.46	JB	0.0623	5.24	1
11031	123678-HxCDD	57653-85-7	4.83	JB	0.0643	5.24	1
11031	123789-HxCDD	19408-74-3	3.41	JB	0.0629	5.24	1
11031	1234678-HpCDD	35822-46-9	121	B	0.145	5.24	1
11031	OCDD	3268-87-9	1,830	B	0.0967	10.5	1
11031	2378-TCDF	51207-31-9	0.505	J	0.0865	1.05	1
11031	12378-PeCDF	57117-41-6	1.21	JB	0.0403	5.24	1
11031	23478-PeCDF	57117-31-4	0.872	JB	0.0390	5.24	1
11031	123478-HxCDF	70648-26-9	0.943	JB	0.0485	5.24	1
11031	123678-HxCDF	57117-44-9	0.706	JB	0.0447	5.24	1
11031	123789-HxCDF	72918-21-9	0.968	JB	0.0509	5.24	1
11031	234678-HxCDF	60851-34-5	0.872	JB	0.0452	5.24	1
11031	1234678-HpCDF	67562-39-4	11.9	B	0.0426	5.24	1
11031	1234789-HpCDF	55673-89-7	1.11	JB	0.0593	5.24	1
11031	OCDF	39001-02-0	35.1	B	0.0398	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-123-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304879
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9607 SDG#: DX096-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-123-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304879
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9607 SDG#: DX096-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/17/2011 22:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-124-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304880
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9608 SDG#: DX096-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-124-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304880
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9608 SDG#: DX096-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.567 JBQ	0.0375	1.07	1
11031	12378-PeCDD	40321-76-4	8.91 B	0.173	5.37	1
11031	123478-HxCDD	39227-28-6	29.7 B	0.262	5.37	1
11031	123678-HxCDD	57653-85-7	125 B	0.269	5.37	1
11031	123789-HxCDD	19408-74-3	53.5 B	0.253	5.37	1
11031	1234678-HpCDD	35822-46-9	3,360 EB	0.610	5.37	1
11031	OCDD	3268-87-9	37,100 EB	0.514	10.7	1
11031	2378-TCDF	51207-31-9	1.12	0.136	1.07	1
11650	2378-TCDF-Conf	51207-31-9	1.15 B	0.0450	1.07	1
11031	12378-PeCDF	57117-41-6	1.61 JB	0.0694	5.37	1
11031	23478-PeCDF	57117-31-4	4.17 JB	0.0676	5.37	1
11031	123478-HxCDF	70648-26-9	7.30 B	0.149	5.37	1
11031	123678-HxCDF	57117-44-9	8.00 B	0.138	5.37	1
11031	123789-HxCDF	72918-21-9	2.85 JB	0.161	5.37	1
11031	234678-HxCDF	60851-34-5	15.7 B	0.144	5.37	1
11031	1234678-HpCDF	67562-39-4	256 B	0.159	5.37	1
11031	1234789-HpCDF	55673-89-7	23.0 B	0.214	5.37	1
11031	OCDF	39001-02-0	613 B	0.109	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-2378-TCDF-Conf	76	24 - 169
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	76	26 - 152

*=This limit was used in the evaluation of the final result

Sample Description: SL-124-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304880
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9608 SDG#: DX096-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-123678-HxCDF		79	26 - 123			
13C12-234678-HxCDF		77	28 - 136			
13C12-123789-HxCDF		84	29 - 147			
13C12-1234678-HpCDF		88	28 - 143			
13C12-1234789-HpCDF		76	26 - 138			
13C12-OCDF		77	17 - 157			
13C12-1278-TCDD (CRS)		90	35 - 197			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-124-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304880
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 10:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9608 SDG#: DX096-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 02:20	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11165001	06/24/2011 01:29	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304881
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:15

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9609 SDG#: DX096-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304881
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:15

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9609 SDG#: DX096-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.178 JB	0.0240	1.07	1
11031	12378-PeCDD	40321-76-4	2.25 JB	0.108	5.34	1
11031	123478-HxCDD	39227-28-6	6.29 B	0.153	5.34	1
11031	123678-HxCDD	57653-85-7	20.4 B	0.158	5.34	1
11031	123789-HxCDD	19408-74-3	12.0 B	0.150	5.34	1
11031	1234678-HpCDD	35822-46-9	650 B	0.355	5.34	1
11031	OCDD	3268-87-9	11,200 EB	0.281	10.7	1
11031	2378-TCDF	51207-31-9	0.958 J	0.144	1.07	1
11031	12378-PeCDF	57117-41-6	1.61 JB	0.0702	5.34	1
11031	23478-PeCDF	57117-31-4	2.05 JB	0.0710	5.34	1
11031	123478-HxCDF	70648-26-9	2.53 JB	0.0857	5.34	1
11031	123678-HxCDF	57117-44-9	2.14 JB	0.0784	5.34	1
11031	123789-HxCDF	72918-21-9	1.13 JB	0.0856	5.34	1
11031	234678-HxCDF	60851-34-5	3.13 JB	0.0802	5.34	1
11031	1234678-HpCDF	67562-39-4	53.3 B	0.0897	5.34	1
11031	1234789-HpCDF	55673-89-7	4.76 JB	0.131	5.34	1
11031	OCDF	39001-02-0	178 B	0.0722	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304881
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:15

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9609 SDG#: DX096-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-126-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304881
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:15

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9609 SDG#: DX096-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 03:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

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Analysis Report

Sample Description: SL-127-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304882
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9610 SDG#: DX096-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-127-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304882
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9610 SDG#: DX096-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.152	JB	0.0232	0.991	1
11031	12378-PeCDD	40321-76-4	1.85	JB	0.0701	4.95	1
11031	123478-HxCDD	39227-28-6	3.28	JB	0.101	4.95	1
11031	123678-HxCDD	57653-85-7	7.05	B	0.102	4.95	1
11031	123789-HxCDD	19408-74-3	6.85	B	0.0955	4.95	1
11031	1234678-HpCDD	35822-46-9	187	B	0.176	4.95	1
11031	OCDD	3268-87-9	3,560	B	0.231	9.91	1
11031	2378-TCDF	51207-31-9	0.651	J	0.118	0.991	1
11031	12378-PeCDF	57117-41-6	0.921	JB	0.0721	4.95	1
11031	23478-PeCDF	57117-31-4	1.01	JB	0.0678	4.95	1
11031	123478-HxCDF	70648-26-9	1.09	JB	0.0561	4.95	1
11031	123678-HxCDF	57117-44-9	0.611	JB	0.0551	4.95	1
11031	123789-HxCDF	72918-21-9	0.444	JB	0.0601	4.95	1
11031	234678-HxCDF	60851-34-5	0.777	JB	0.0533	4.95	1
11031	1234678-HpCDF	67562-39-4	11.2	B	0.0546	4.95	1
11031	1234789-HpCDF	55673-89-7	0.782	JB	0.0657	4.95	1
11031	OCDF	39001-02-0	41.0	B	0.0739	9.91	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304882
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9610 SDG#: DX096-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304882
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9610 SDG#: DX096-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 04:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401A	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304883
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 09:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9611 SDG#: DX096-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-128-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304883
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 09:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9611 SDG#: DX096-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0259	JBQ	0.0155	1.11	1
11031	12378-PeCDD	40321-76-4	0.168	JBQ	0.0246	5.54	1
11031	123478-HxCDD	39227-28-6	0.226	JB	0.0520	5.54	1
11031	123678-HxCDD	57653-85-7	0.945	JB	0.0542	5.54	1
11031	123789-HxCDD	19408-74-3	0.717	JB	0.0518	5.54	1
11031	1234678-HpCDD	35822-46-9	24.1	B	0.0780	5.54	1
11031	OCDD	3268-87-9	502	B	0.0787	11.1	1
11031	2378-TCDF	51207-31-9	0.0663	U	0.0663	1.11	1
11031	12378-PeCDF	57117-41-6	1.24	JB	0.0361	5.54	1
11031	23478-PeCDF	57117-31-4	0.597	JB	0.0334	5.54	1
11031	123478-HxCDF	70648-26-9	0.475	JB	0.0401	5.54	1
11031	123678-HxCDF	57117-44-9	0.263	JB	0.0393	5.54	1
11031	123789-HxCDF	72918-21-9	0.301	JB	0.0428	5.54	1
11031	234678-HxCDF	60851-34-5	0.159	JB	0.0382	5.54	1
11031	1234678-HpCDF	67562-39-4	2.65	JB	0.0356	5.54	1
11031	1234789-HpCDF	55673-89-7	0.219	JBQ	0.0419	5.54	1
11031	OCDF	39001-02-0	8.03	JB	0.0441	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304883
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 09:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9611 SDG#: DX096-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-128-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304883
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 09:20

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9611 SDG#: DX096-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 05:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304884
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9612 SDG#: DX096-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-129-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304884
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9612 SDG#: DX096-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.133	JBQ	0.0321	1.04	1
11031	12378-PeCDD	40321-76-4	1.25	JB	0.120	5.20	1
11031	123478-HxCDD	39227-28-6	2.59	JB	0.102	5.20	1
11031	123678-HxCDD	57653-85-7	9.48	B	0.108	5.20	1
11031	123789-HxCDD	19408-74-3	6.18	B	0.102	5.20	1
11031	1234678-HpCDD	35822-46-9	232	B	0.174	5.20	1
11031	OCDD	3268-87-9	2,930	B	0.149	10.4	1
11031	2378-TCDF	51207-31-9	0.181	U	0.181	1.04	1
11031	12378-PeCDF	57117-41-6	1.61	JB	0.0683	5.20	1
11031	23478-PeCDF	57117-31-4	1.23	JB	0.0718	5.20	1
11031	123478-HxCDF	70648-26-9	2.42	JB	0.100	5.20	1
11031	123678-HxCDF	57117-44-9	1.35	JB	0.0853	5.20	1
11031	123789-HxCDF	72918-21-9	0.571	JB	0.107	5.20	1
11031	234678-HxCDF	60851-34-5	1.83	JB	0.0921	5.20	1
11031	1234678-HpCDF	67562-39-4	23.7	B	0.0657	5.20	1
11031	1234789-HpCDF	55673-89-7	3.94	JB	0.106	5.20	1
11031	OCDF	39001-02-0	60.4	B	0.0671	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-129-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304884
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9612 SDG#: DX096-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304884
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9612 SDG#: DX096-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 06:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304885
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9613 SDG#: DX096-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-130-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304885
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9613 SDG#: DX096-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	3.55 B	0.0789	1.03	1
11031	12378-PeCDD	40321-76-4	31.4 B	0.220	5.13	1
11031	123478-HxCDD	39227-28-6	59.0 B	0.218	5.13	1
11031	123678-HxCDD	57653-85-7	176 B	0.220	5.13	1
11031	123789-HxCDD	19408-74-3	136 B	0.215	5.13	1
11031	1234678-HpCDD	35822-46-9	5,270 EB	0.850	5.13	1
11031	OCDD	3268-87-9	180,000 EB	1.32	10.3	1
11031	2378-TCDF	51207-31-9	0.809 J	0.0921	1.03	1
11031	12378-PeCDF	57117-41-6	3.23 JB	0.0589	5.13	1
11031	23478-PeCDF	57117-31-4	3.57 JB	0.0578	5.13	1
11031	123478-HxCDF	70648-26-9	17.9 B	0.116	5.13	1
11031	123678-HxCDF	57117-44-9	6.49 B	0.110	5.13	1
11031	123789-HxCDF	72918-21-9	5.05 JB	0.124	5.13	1
11031	234678-HxCDF	60851-34-5	7.63 B	0.117	5.13	1
11031	1234678-HpCDF	67562-39-4	243 B	0.118	5.13	1
11031	1234789-HpCDF	55673-89-7	11.0 B	0.165	5.13	1
11031	OCDF	39001-02-0	1,030 B	0.204	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-130-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304885
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9613 SDG#: DX096-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-130-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304885
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 08:30

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9613 SDG#: DX096-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 07:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304886
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9614 SDG#: DX096-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304886
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9614 SDG#: DX096-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0239	JB	0.0122	1.02	1
11031	12378-PeCDD	40321-76-4	0.305	JB	0.0344	5.10	1
11031	123478-HxCDD	39227-28-6	0.373	JB	0.0569	5.10	1
11031	123678-HxCDD	57653-85-7	1.40	JB	0.0601	5.10	1
11031	123789-HxCDD	19408-74-3	1.42	JB	0.0587	5.10	1
11031	1234678-HpCDD	35822-46-9	23.1	B	0.0653	5.10	1
11031	OCDD	3268-87-9	357	B	0.0593	10.2	1
11031	2378-TCDF	51207-31-9	0.345	J	0.0557	1.02	1
11031	12378-PeCDF	57117-41-6	0.447	JB	0.0277	5.10	1
11031	23478-PeCDF	57117-31-4	0.579	JB	0.0268	5.10	1
11031	123478-HxCDF	70648-26-9	0.470	JB	0.0345	5.10	1
11031	123678-HxCDF	57117-44-9	0.267	JBQ	0.0321	5.10	1
11031	123789-HxCDF	72918-21-9	0.936	JB	0.0388	5.10	1
11031	234678-HxCDF	60851-34-5	0.272	JBQ	0.0322	5.10	1
11031	1234678-HpCDF	67562-39-4	2.70	JB	0.0236	5.10	1
11031	1234789-HpCDF	55673-89-7	0.280	JB	0.0337	5.10	1
11031	OCDF	39001-02-0	7.55	JB	0.0381	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304886
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9614 SDG#: DX096-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-148-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA5DN-SS-0.0-0.5

LLI Sample # SW 6304886
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:50

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9614 SDG#: DX096-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/20/2011 12:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-11-SA5DN-QC-060111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5DN-QC-060111

LLI Sample # SW 6304887
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:40

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9615 SDG#: DX096-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-11-SA5DN-QC-060111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5DN-QC-060111

LLI Sample # SW 6304887
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:40

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9615 SDG#: DX096-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0744	JB	0.0323	1.06	1
11031	12378-PeCDD	40321-76-4	0.457	JBQ	0.0641	5.28	1
11031	123478-HxCDD	39227-28-6	0.859	JB	0.0894	5.28	1
11031	123678-HxCDD	57653-85-7	4.09	JB	0.0954	5.28	1
11031	123789-HxCDD	19408-74-3	2.11	JB	0.0887	5.28	1
11031	1234678-HpCDD	35822-46-9	123	B	0.177	5.28	1
11031	OCDD	3268-87-9	1,950	B	0.134	10.6	1
11031	2378-TCDF	51207-31-9	0.344	JQ	0.172	1.06	1
11031	12378-PeCDF	57117-41-6	0.989	JBQ	0.0769	5.28	1
11031	23478-PeCDF	57117-31-4	0.478	JBQ	0.0711	5.28	1
11031	123478-HxCDF	70648-26-9	0.872	JB	0.0731	5.28	1
11031	123678-HxCDF	57117-44-9	0.564	JB	0.0699	5.28	1
11031	123789-HxCDF	72918-21-9	0.773	JB	0.0731	5.28	1
11031	234678-HxCDF	60851-34-5	0.665	JB	0.0708	5.28	1
11031	1234678-HpCDF	67562-39-4	10.3	B	0.0623	5.28	1
11031	1234789-HpCDF	55673-89-7	1.39	JB	0.0808	5.28	1
11031	OCDF	39001-02-0	37.0	B	0.0594	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-11-SA5DN-QC-060111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5DN-QC-060111

LLI Sample # SW 6304887
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:40

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9615 SDG#: DX096-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-11-SA5DN-QC-060111 Soil
SSFL Area IV Collocated Soil Sampling
DUP-11-SA5DN-QC-060111

LLI Sample # SW 6304887
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 14:40

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9615 SDG#: DX096-15FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 08:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304888
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9616 SDG#: DX096-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304888
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9616 SDG#: DX096-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0363	JBQ	0.0159	1.11	1
11031	12378-PeCDD	40321-76-4	0.179	JBQ	0.0229	5.56	1
11031	123478-HxCDD	39227-28-6	0.103	JBQ	0.0366	5.56	1
11031	123678-HxCDD	57653-85-7	0.297	JBQ	0.0374	5.56	1
11031	123789-HxCDD	19408-74-3	0.340	JBQ	0.0367	5.56	1
11031	1234678-HpCDD	35822-46-9	5.39	JB	0.0477	5.56	1
11031	OCDD	3268-87-9	71.0	B	0.0705	11.1	1
11031	2378-TCDF	51207-31-9	0.0689	JQ	0.0207	1.11	1
11031	12378-PeCDF	57117-41-6	0.187	JB	0.0151	5.56	1
11031	23478-PeCDF	57117-31-4	0.219	JB	0.0164	5.56	1
11031	123478-HxCDF	70648-26-9	0.182	JB	0.0282	5.56	1
11031	123678-HxCDF	57117-44-9	0.116	JBQ	0.0218	5.56	1
11031	123789-HxCDF	72918-21-9	0.377	JBQ	0.0292	5.56	1
11031	234678-HxCDF	60851-34-5	0.0799	JB	0.0233	5.56	1
11031	1234678-HpCDF	67562-39-4	0.284	JB	0.0214	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0700	JBQ	0.0437	5.56	1
11031	OCDF	39001-02-0	0.681	JB	0.0589	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304888
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9616 SDG#: DX096-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304888
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:45

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9616 SDG#: DX096-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 09:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-015-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-12.0-13.0

LLI Sample # SW 6304889
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:54

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9617 SDG#: DX096-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-12.0-13.0

LLI Sample # SW 6304889
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:54

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9617 SDG#: DX096-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0224 JBQ	0.0179	1.09	1
11031	12378-PeCDD	40321-76-4	0.0372 JBQ	0.0250	5.43	1
11031	123478-HxCDD	39227-28-6	0.0233 JBQ	0.0201	5.43	1
11031	123678-HxCDD	57653-85-7	0.0607 JB	0.0209	5.43	1
11031	123789-HxCDD	19408-74-3	0.0791 JBQ	0.0204	5.43	1
11031	1234678-HpCDD	35822-46-9	0.449 JB	0.0410	5.43	1
11031	OCDD	3268-87-9	3.71 JB	0.0525	10.9	1
11031	2378-TCDF	51207-31-9	0.0162 U	0.0162	1.09	1
11031	12378-PeCDF	57117-41-6	0.0406 JBQ	0.0148	5.43	1
11031	23478-PeCDF	57117-31-4	0.0825 JBQ	0.0166	5.43	1
11031	123478-HxCDF	70648-26-9	0.0308 JB	0.0180	5.43	1
11031	123678-HxCDF	57117-44-9	0.0175 JBQ	0.0136	5.43	1
11031	123789-HxCDF	72918-21-9	0.0570 JBQ	0.0175	5.43	1
11031	234678-HxCDF	60851-34-5	0.0243 JBQ	0.0135	5.43	1
11031	1234678-HpCDF	67562-39-4	0.0745 JB	0.0212	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0485 JBQ	0.0435	5.43	1
11031	OCDF	39001-02-0	0.198 JBQ	0.0640	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5DN-SB-12.0-13.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-12.0-13.0

LLI Sample # SW 6304889
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:54

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9617 SDG#: DX096-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DN-SB-12.0-13.0

LLI Sample # SW 6304889
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 15:54

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9617 SDG#: DX096-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 10:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304890
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9618 SDG#: DX096-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304890
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9618 SDG#: DX096-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0223 U	0.0223	1.13	1
11031	12378-PeCDD	40321-76-4	0.0192 U	0.0192	5.63	1
11031	123478-HxCDD	39227-28-6	0.0225 U	0.0225	5.63	1
11031	123678-HxCDD	57653-85-7	0.0237 U	0.0237	5.63	1
11031	123789-HxCDD	19408-74-3	0.0407 JBQ	0.0230	5.63	1
11031	1234678-HpCDD	35822-46-9	0.481 JBQ	0.0427	5.63	1
11031	OCDD	3268-87-9	1.64 JB	0.0501	11.3	1
11031	2378-TCDF	51207-31-9	0.0227 JQ	0.0201	1.13	1
11031	12378-PeCDF	57117-41-6	0.0284 JBQ	0.0109	5.63	1
11031	23478-PeCDF	57117-31-4	0.0802 JBQ	0.0118	5.63	1
11031	123478-HxCDF	70648-26-9	0.0520 JBQ	0.0150	5.63	1
11031	123678-HxCDF	57117-44-9	0.0115 U	0.0115	5.63	1
11031	123789-HxCDF	72918-21-9	0.0360 JBQ	0.0178	5.63	1
11031	234678-HxCDF	60851-34-5	0.0225 JB	0.0128	5.63	1
11031	1234678-HpCDF	67562-39-4	0.0449 JB	0.0103	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0314 JBQ	0.0240	5.63	1
11031	OCDF	39001-02-0	0.189 JBQ	0.0694	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-017-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304890
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9618 SDG#: DX096-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304890
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:35

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9618 SDG#: DX096-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 16:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-7.0-8.0

LLI Sample # SW 6304891
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:39

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9619 SDG#: DX096-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-7.0-8.0

LLI Sample # SW 6304891
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:39

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9619 SDG#: DX096-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0333 JBQ	0.0125	1.12	1
11031	12378-PeCDD	40321-76-4	0.0754 JB	0.0164	5.60	1
11031	123478-HxCDD	39227-28-6	0.0850 JB	0.0249	5.60	1
11031	123678-HxCDD	57653-85-7	0.101 JB	0.0254	5.60	1
11031	123789-HxCDD	19408-74-3	0.165 JB	0.0242	5.60	1
11031	1234678-HpCDD	35822-46-9	0.569 JB	0.0370	5.60	1
11031	OCDD	3268-87-9	1.38 JB	0.0306	11.2	1
11031	2378-TCDF	51207-31-9	0.0113 JQ	0.00956	1.12	1
11031	12378-PeCDF	57117-41-6	0.0604 JBQ	0.00569	5.60	1
11031	23478-PeCDF	57117-31-4	0.0865 JB	0.00614	5.60	1
11031	123478-HxCDF	70648-26-9	0.0673 JB	0.0131	5.60	1
11031	123678-HxCDF	57117-44-9	0.0802 JB	0.0113	5.60	1
11031	123789-HxCDF	72918-21-9	0.0932 JBQ	0.0149	5.60	1
11031	234678-HxCDF	60851-34-5	0.0806 JB	0.0121	5.60	1
11031	1234678-HpCDF	67562-39-4	0.109 JB	0.0109	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0967 JBQ	0.0214	5.60	1
11031	OCDF	39001-02-0	0.302 JBQ	0.0410	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5DN-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-7.0-8.0

LLI Sample # SW 6304891
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:39

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9619 SDG#: DX096-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DN-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DN-SB-7.0-8.0

LLI Sample # SW 6304891
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 12:39

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9619 SDG#: DX096-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/20/2011 13:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

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Analysis Report

Sample Description: SL-018-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304892
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:16

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9620 SDG#: DX096-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304892
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:16

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9620 SDG#: DX096-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0282	JBQ	0.0153	1.08	1
11031	12378-PeCDD	40321-76-4	0.133	JBQ	0.0150	5.38	1
11031	123478-HxCDD	39227-28-6	0.139	JB	0.0172	5.38	1
11031	123678-HxCDD	57653-85-7	0.139	JBQ	0.0180	5.38	1
11031	123789-HxCDD	19408-74-3	0.167	JB	0.0174	5.38	1
11031	1234678-HpCDD	35822-46-9	0.586	JB	0.0297	5.38	1
11031	OCDD	3268-87-9	4.78	JB	0.0355	10.8	1
11031	2378-TCDF	51207-31-9	0.0366	JQ	0.0129	1.08	1
11031	12378-PeCDF	57117-41-6	0.116	JB	0.00798	5.38	1
11031	23478-PeCDF	57117-31-4	0.159	JB	0.00865	5.38	1
11031	123478-HxCDF	70648-26-9	0.171	JB	0.0169	5.38	1
11031	123678-HxCDF	57117-44-9	0.140	JB	0.0139	5.38	1
11031	123789-HxCDF	72918-21-9	0.154	JB	0.0186	5.38	1
11031	234678-HxCDF	60851-34-5	0.129	JB	0.0151	5.38	1
11031	1234678-HpCDF	67562-39-4	0.145	JBQ	0.00809	5.38	1
11031	1234789-HpCDF	55673-89-7	0.110	JB	0.0163	5.38	1
11031	OCDF	39001-02-0	0.310	JBQ	0.0314	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304892
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:16

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9620 SDG#: DX096-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-4.0-5.0

LLI Sample # SW 6304892
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:16

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9620 SDG#: DX096-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 18:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-7.5-8.5

LLI Sample # SW 6304893
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9621 SDG#: DX096-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-7.5-8.5

LLI Sample # SW 6304893
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9621 SDG#: DX096-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0334	JBQ	0.0135	1.10	1
11031	12378-PeCDD	40321-76-4	0.297	JB	0.0165	5.50	1
11031	123478-HxCDD	39227-28-6	0.330	JBQ	0.0241	5.50	1
11031	123678-HxCDD	57653-85-7	0.364	JBQ	0.0254	5.50	1
11031	123789-HxCDD	19408-74-3	0.406	JB	0.0248	5.50	1
11031	1234678-HpCDD	35822-46-9	1.11	JB	0.0336	5.50	1
11031	OCDD	3268-87-9	6.48	JB	0.0284	11.0	1
11031	2378-TCDF	51207-31-9	0.0433	JQ	0.0143	1.10	1
11031	12378-PeCDF	57117-41-6	0.279	JB	0.0107	5.50	1
11031	23478-PeCDF	57117-31-4	0.297	JB	0.0106	5.50	1
11031	123478-HxCDF	70648-26-9	0.353	JB	0.0264	5.50	1
11031	123678-HxCDF	57117-44-9	0.296	JBQ	0.0218	5.50	1
11031	123789-HxCDF	72918-21-9	0.356	JB	0.0272	5.50	1
11031	234678-HxCDF	60851-34-5	0.323	JB	0.0222	5.50	1
11031	1234678-HpCDF	67562-39-4	0.482	JB	0.0103	5.50	1
11031	1234789-HpCDF	55673-89-7	0.365	JBQ	0.0195	5.50	1
11031	OCDF	39001-02-0	1.11	JB	0.0384	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-018-SA5DN-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-7.5-8.5

LLI Sample # SW 6304893
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9621 SDG#: DX096-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA5DN-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA5DN-SB-7.5-8.5

LLI Sample # SW 6304893
LLI Group # 1249617
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/01/2011 11:25

Submitted: 06/02/2011 10:00
Reported: 06/24/2011 17:40

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9621 SDG#: DX096-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11165001	06/18/2011 19:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11165001	06/14/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249617
Reported: 06/24/11 at 05:40 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11165162401A	Sample number(s): 6304871,6304875-6304877,6304879-6304882								
Moisture Content by 160.3					100		80-120		
Batch number: 11165162401B	Sample number(s): 6304883-6304887,6304890-6304891								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162401B	Sample number(s): 6304878								
Moisture Content by 160.3					100		80-120		
Batch number: 11167162402B	Sample number(s): 6304872-6304874								
Moisture Content by 160.3					100		80-120		
Batch number: 11168162401A	Sample number(s): 6304888-6304889,6304892-6304893								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11159001	Sample number(s): 6304871								
2378-TCDD	0.0187 U	0.0187	1.00	ng/kg	90		67-158		
12378-PeCDD	0.0189 U	0.0189	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0419 J	0.0150	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0307 J	0.0165	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0427 J	0.0139	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.182 J	0.0186	5.00	ng/kg	96		70-140		
OCDD	0.425 J	0.0174	10.0	ng/kg	96		78-144		
2378-TCDF	0.0228 U	0.0228	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0269 J	0.0122	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0558 J	0.0129	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0475 J	0.0250	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0493 J	0.0194	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0885 J	0.0173	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0739 J	0.0135	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.118 J	0.00990	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0736 J	0.0140	5.00	ng/kg	100		78-138		
OCDF	0.342 J	0.0348	10.0	ng/kg	100		63-170		
Batch number: 11165001	Sample number(s): 6304872-6304893								
2378-TCDD	0.0224 J	0.0183	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0420 J	0.0217	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0356 J	0.0232	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0385 J	0.0237	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0463 J	0.0223	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.494 J	0.0474	5.00	ng/kg	90		70-140		
OCDD	1.06 J	0.0497	10.0	ng/kg	91		78-144		
2378-TCDF	0.0177 U	0.0177	1.00	ng/kg	96		75-158		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249617
Reported: 06/24/11 at 05:40 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
2378-TCDF-Conf	0.0824 J	0.0210	1.00	ng/kg					
12378-PeCDF	0.0242 J	0.0105	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0677 J	0.0112	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0514 J	0.0154	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0532 J	0.0123	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0598 J	0.0185	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0470 J	0.0140	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.0768 J	0.0137	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0681 J	0.0261	5.00	ng/kg	93		78-138		
OCDF	0.269 J	0.0598	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11165162401A	Sample number(s): 6304871,6304875-6304877,6304879-6304882 BKG: P304843								
Moisture Content by 160.3						5.3	5.4	2	20
Batch number: 11165162401B	Sample number(s): 6304883-6304887,6304890-6304891 BKG: P312177								
Moisture Content by 160.3						12.5	12.4	1	20
Batch number: 11167162401B	Sample number(s): 6304878 BKG: P294851								
Moisture Content by 160.3						12.6	13.3	5	20
Batch number: 11167162402B	Sample number(s): 6304872-6304874 BKG: P302802								
Moisture Content by 160.3						13.5	14.7	8	20
Batch number: 11168162401A	Sample number(s): 6304888-6304889,6304892-6304893 BKG: P314471								
Moisture Content by 160.3						16.3	16.2	0	20
Batch number: 11159001	Sample number(s): 6304871 UNSPK: P298902								
2378-TCDD	87	89	67-158	3	25				
12378-PeCDD	93	93	70-142	1	25				
123478-HxCDD	93	94	70-164	1	25				
123678-HxCDD	97	97	76-134	1	25				
123789-HxCDD	96	97	64-162	2	25				
1234678-HpCDD	94	96	70-140	2	25				
OCDD	92	92	78-144	1	25				
2378-TCDF	92	94	75-158	3	25				
12378-PeCDF	97	99	80-134	3	25				
23478-PeCDF	98	98	68-160	1	25				
123478-HxCDF	97	100	72-134	4	25				
123678-HxCDF	95	97	84-130	2	25				
123789-HxCDF	98	98	78-130	1	25				
234678-HxCDF	97	98	70-156	1	25				
1234678-HpCDF	97	97	82-122	2	25				
1234789-HpCDF	99	98	78-138	0	25				
OCDF	98	100	63-170	2	25				
Batch number: 11165001	Sample number(s): 6304872-6304893 UNSPK: 6304875								
2378-TCDD	85	84	67-158	1	25				
12378-PeCDD	90	89	70-142	2	25				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249617
Reported: 06/24/11 at 05:40 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
123478-HxCDD	90	92	70-164	2	25				
123678-HxCDD	91	91	76-134	1	25				
123789-HxCDD	91	90	64-162	1	25				
1234678-HpCDD	95	92	70-140	2	25				
OCDD	104 (2)	111 (2)	78-144	1	25				
2378-TCDF	86	86	75-158	0	25				
12378-PeCDF	92	91	80-134	1	25				
23478-PeCDF	89	91	68-160	2	25				
123478-HxCDF	93	91	72-134	2	25				
123678-HxCDF	94	89	84-130	5	25				
123789-HxCDF	93	92	78-130	1	25				
234678-HxCDF	93	91	70-156	2	25				
1234678-HpCDF	92	92	82-122	0	25				
1234789-HpCDF	92	92	78-138	1	25				
OCDF	93	94	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11159001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6304871	84	75	81	82	77	80
Blank	77	65	40	51	73	64
MS	81	74	67	71	76	75
MSD	81	72	63	68	76	78
OPR	67	62	32	40	68	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6304871	76	62	47	99	77	79
Blank	70	58	50	106	77	76
MS	71	68	60	98	78	77
MSD	73	68	59	96	78	78
OPR	55	56	50	97	71	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6304871	76	80	68	52	83	79
Blank	76	85	81	74	65	74
MS	76	80	74	64	78	77
MSD	77	78	73	65	76	75

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249617
Reported: 06/24/11 at 05:40 PM

Surrogate Quality Control

OPR	70	77	74	67	59	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6304871	
Blank	60
MS	
MSD	
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11165001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6304872	76	70	74	77	76	85
6304873	73	65	69	73	70	72
6304874	75	69	71	75	73	76
6304875	76	70	72	75	73	79
6304876	74	69	72	72	71	78
6304877	74	69	73	75	74	79
6304878	76	72	74	75	75	82
6304879	87	82	80	83	80	83
6304880	79	73	76	79	77	84
6304881	76	70	72	76	74	79
6304882	72	67	70	70	71	77
6304883	75	71	71	71	71	77
6304884	75	67	66	75	70	67
6304885	74	68	70	71	70	74
6304886	77	70	73	76	75	74
6304887	75	70	72	72	72	78
6304888	79	68	63	77	71	65
6304889	66	61	52	67	66	60
6304890	62	56	53	67	60	53
6304891	65	62	65	75	68	63
6304892	72	66	64	75	67	61
6304893	72	70	64	75	73	67
Blank	61	55	59	72	63	55
MS	74	69	72	72	71	78
MSD	74	69	73	75	74	79
OPR	62	58	61	72	66	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6304872	80	72	67	87	74	79
6304873	79	63	58	86	70	76
6304874	79	65	59	85	75	78
6304875	78	68	61	87	73	76
6304876	74	67	60	85	72	75
6304877	80	71	68	82	74	75
6304878	79	74	69	87	74	77

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249617
Reported: 06/24/11 at 05:40 PM

Surrogate Quality Control

6304879	88	77	73	99	88	84
6304880	88	76	77	90	78	83
6304881	82	69	64	87	74	77
6304882	70	69	63	84	69	72
6304883	71	72	67	85	74	74
6304884	86	62	57	86	75	77
6304885	76	65	62	82	72	72
6304886	79	69	64	86	74	80
6304887	75	70	64	83	72	75
6304888	101	59	51	93	83	83
6304889	91	53	45	87	74	80
6304890	90	46	40	86	70	75
6304891	95	56	48	83	71	76
6304892	92	55	49	84	75	75
6304893	93	61	55	86	77	81
Blank	82	53	46	85	64	72
MS	74	67	60	85	72	75
MSD	80	71	68	82	74	75
OPR	87	59	54	85	68	76

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6304872	78	79	78	76	71	71
6304873	73	76	73	68	68	70
6304874	76	78	75	68	70	74
6304875	75	77	75	69	71	73
6304876	72	75	72	66	70	70
6304877	75	77	78	75	70	72
6304878	75	77	79	76	72	74
6304879	81	85	85	83	82	87
6304880	79	82	88	91	74	76
6304881	76	78	77	73	71	74
6304882	69	73	72	66	68	67
6304883	71	74	75	69	72	71
6304884	76	77	78	74	68	76
6304885	71	72	73	68	70	71
6304886	77	79	75	72	72	73
6304887	73	76	73	69	71	71
6304888	83	85	85	78	67	82
6304889	76	79	80	71	57	72
6304890	71	73	74	68	52	67
6304891	75	76	77	70	57	70
6304892	74	76	75	70	65	77
6304893	78	81	80	75	64	77
Blank	72	73	71	64	51	62
MS	72	75	72	66	70	70
MSD	75	77	78	75	70	72
OPR	74	77	78	73	52	63

Limits:	28-130	28-130	23-140	17-157	24-169	24-185
	13C12-2378-TCDF-Conf					
6304872						
6304873						
6304874						

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249617
Reported: 06/24/11 at 05:40 PM

Surrogate Quality Control

6304875	
6304876	
6304877	
6304878	
6304879	
6304880	76
6304881	
6304882	
6304883	
6304884	
6304885	
6304886	
6304887	
6304888	
6304889	
6304890	
6304891	
6304892	
6304893	
Blank	56
MS	
MSD	
OPR	
Limits:	24-169

*- Outside of specification
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acct# 13013 Gp# 1249617 Samp6# 6304871-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-100-SA5DN-SS-0.0-0.5	6/1/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-100-SA5DN-SS-0.0-0.5	6/1/11	1525	SOIL	NONE	1-8 oz jar															X						
SL-100-SA5DN-SS-0.0-0.5	6/1/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-105-SA5DN-SS-0.0-0.5	6/1/11	1335	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-105-SA5DN-SS-0.0-0.5	6/1/11	1335	SOIL	NONE	1-SS sleeve			X	X																	
SL-106-SA5DN-SS-0.0-0.5	6/1/11	1345	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-106-SA5DN-SS-0.0-0.5	6/1/11	1345	SOIL	NONE	1-SS sleeve			X	X																	
SL-107-SA5DN-SS-0.0-0.5	6/1/11	1410	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-107-SA5DN-SS-0.0-0.5	6/1/11	1410	SOIL	NONE	1-SS sleeve			X	X																	
SL-108-SA5DN-SS-0.0-0.5MS	6/1/11	1430	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-108-SA5DN-SS-0.0-0.5MS	6/1/11	1430	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-109-SA5DN-SS-0.0-0.5	6/1/11	1510	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-109-SA5DN-SS-0.0-0.5	6/1/11	1510	SOIL	NONE	1-SS sleeve			X	X																	
SL-123-SA5DN-SS-0.0-0.5	6/1/11	1020	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-123-SA5DN-SS-0.0-0.5	6/1/11	1020	SOIL	NONE	1-SS sleeve			X	X																	
SL-124-SA5DN-SS-0.0-0.5	6/1/11	1045	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-124-SA5DN-SS-0.0-0.5	6/1/11	1045	SOIL	NONE	1-SS sleeve			X	X																	
SL-126-SA5DN-SS-0.0-0.5	6/1/11	1115	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-126-SA5DN-SS-0.0-0.5	6/1/11	1115	SOIL	NONE	1-SS sleeve			X	X																	
SL-127-SA5DN-SS-0.0-0.5	6/1/11	1135	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-127-SA5DN-SS-0.0-0.5	6/1/11	1135	SOIL	NONE	1-SS sleeve			X	X																	
SL-128-SA5DN-SS-0.0-0.5	6/1/11	0920	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-128-SA5DN-SS-0.0-0.5	6/1/11	0920	SOIL	NONE	1-SS sleeve			X	X																	
SL-129-SA5DN-SS-0.0-0.5	6/1/11	0850	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-129-SA5DN-SS-0.0-0.5	6/1/11	0850	SOIL	NONE	1-SS sleeve			X	X																	
SL-130-SA5DN-SS-0.0-0.5	6/1/11	0830	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-130-SA5DN-SS-0.0-0.5	6/1/11	0830	SOIL	NONE	1-SS sleeve			X	X																	
SL-148-SA5DN-SS-0.0-0.5	6/1/11	1550	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X										
SL-148-SA5DN-SS-0.0-0.5	6/1/11	1550	SOIL	NONE	1-SS sleeve			X	X																	
DUP-11-SA5DN-QC-060111	6/1/11	1440	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-11-SA5DN-QC-060111	6/1/11	1440	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/01/2011 / 1700	6/2/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s): 8695 1442 1026; 8695 1441 1037 8695 1441 1048	

acct#13013 Cap# 1249617 Sample# 6304871-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hartley

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B-S	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-016-SA5DN-SB-4.5	6/1/11	1540	SOIL	NONE	5-Encores										X	X	X										
SL-016-SA5DN-SB-4.0-5.0	6/1/11	1545	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-016-SA5DN-SB-12.5	6/1/11	1550	SOIL	NONE	5-Encores										X	X	X										
SL-016-SA5DN-SB-12.0-13.0	6/1/11	1554	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-017-SA5DN-SB-4.5	6/1/11	1230	SOIL	NONE	4-Encores										X	X											
SL-017-SA5DN-SB-4.0-5.0	6/1/11	1235	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-017-SA5DN-SB-7.0-8.0	6/1/11	1239	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-018-SA5DN-SB-4.5	6/1/11	1111	SOIL	NONE	5-Encores										X	X	X										
SL-018-SA5DN-SB-4.0-5.0	6/1/11	1116	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-018-SA5DN-SB-5.0	6/1/11	1121	SOIL	NONE	5-Encores										X	X	X										
SL-018-SA5DN-SB-7.5-8.5	6/1/11	1125	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-060111	6/1/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
Brad Dean	06/1/2011 / 1700	Barry Hart 6/2/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8695 1442 1026; 8695 1441 1037 8695 1441 1048	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/03/2011
Group Number: 1249810
SDG: DE171
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-131-SA5DN-SS-0.0-0.5 Soil	6305879
SL-132-SA5DN-SS-0.0-0.5 Soil	6305880
SL-133-SA5DN-SS-0.0-0.5 Soil	6305881
SL-134-SA5DN-SS-0.0-0.5 Soil	6305882
SL-135-SA5DN-SS-0.0-0.5 Soil	6305883
SL-136-SA5DN-SS-0.0-0.5 Soil	6305884
SL-137-SA5DN-SS-0.0-0.5 Soil	6305885
SL-138-SA5DN-SS-0.0-0.5 Soil	6305886
SL-138-SA5DN-SS-0.0-0.5MS Soil	6305887
SL-138-SA5DN-SS-0.0-0.5MSD Soil	6305888
SL-138-SA5DN-SS-0.0-0.5DUP Soil	6305889
SL-139-SA5DN-SS-0.0-0.5 Soil	6305890
SL-140-SA5DN-SS-0.0-0.5 Soil	6305891
SL-141-SA5DN-SS-0.0-0.5 Soil	6305892
SL-142-SA5DN-SS-0.0-0.5 Soil	6305893
SL-143-SA5DN-SS-0.0-0.5 Soil	6305894
SL-144-SA5DN-SS-0.0-0.5 Soil	6305895
DUP-12-SA5DN-QC-060211 Soil	6305896
SL-145-SA5DN-SS-0.0-0.5 Soil	6305897
SL-149-SA5DN-SS-0.0-0.5 Soil	6305898
SL-150-SA5DN-SS-0.0-0.5 Soil	6305899
SL-151-SA5DN-SS-0.0-0.5 Soil	6305900
EB12-SA5DN-SS-060211 Water	6305901

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305879
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-1 SDG#: DE171-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305879
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-1 SDG#: DE171-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.35	J	0.34	1.7		1
10138	Anthracene	120-12-7	1.5	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	6.6		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	7.7		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	12		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	8.5		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	13		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	3.6		0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	65		6.1	18		1
10138	Fluoranthene	206-44-0	14		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	12		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	1.0	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.68	1.7		1
10138	Naphthalene	91-20-3	1.5	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	7.9		0.68	1.7		1
10138	Pyrene	129-00-0	9.8		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	1.2	U	1.2	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.9		0.83	1.8		1
10401	MCPA	94-74-6	930		79	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305879
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-1 SDG#: DE171-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	2.5	J	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35		1
01363	p,p-DDE	72-55-9	1.1		0.069	0.35		1
01363	p,p-DDT	50-29-3	1.0		0.069	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	2.0		0.069	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35		1
01363	Endrin	72-20-8	0.069	U	0.069	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.35		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.097	U	0.097	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide represent the lowest reporting limits attainable.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.2	U	5.2	17		5
10225	Aroclor 5442	12642-23-8	5.2	U	5.2	17		5
10225	Aroclor 5460	11126-42-4	5.2	U	5.2	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.8		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.8		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.8		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.8		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.8		5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.8		5
10225	PCB-1260	11096-82-5	5.0	J	2.0	8.8		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.8		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.8		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.18	20.6		1
07914	Boron	7440-42-8	0.371	U	0.371	5.15		1
01650	Calcium	7440-70-2	3,650		2.57	20.6		1
01654	Iron	7439-89-6	20,500		4.85	20.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305879
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-1 SDG#: DE171-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	22.2		0.64	2.1		1
01657	Magnesium	7439-95-4	4,420		0.453	10.3		1
06958	Manganese	7439-96-5	301		0.0803	0.515		1
10145	Phosphorus	7723-14-0	482		0.576	10.3		1
01662	Potassium	7440-09-7	3,770		11.6	51.5		1
01667	Sodium	7440-23-5	96.6	J	6.12	103		1
07968	Strontium	7440-24-6	23.3		0.0638	0.515		1
06969	Tin	7440-31-5	2.70	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,350		0.391	1.03		1
10146	Zirconium	7440-67-7	4.57	J	0.473	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.288		0.0618	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.2		0.0823	0.412		2
06126	Barium	7440-39-3	124		0.111	0.412		2
06127	Beryllium	7440-41-7	0.670		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.608		0.0412	0.103		2
06131	Chromium	7440-47-3	25.1		0.124	0.412		2
06132	Cobalt	7440-48-4	7.84		0.0206	0.103		2
06133	Copper	7440-50-8	18.0		0.0679	0.412		2
06135	Lead	7439-92-1	17.0		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.851		0.0515	0.103		2
06139	Nickel	7440-02-0	19.4		0.103	0.412		2
06141	Selenium	7782-49-2	0.106	J	0.0412	0.412		2
06142	Silver	7440-22-4	0.294		0.0124	0.103		2
06145	Thallium	7440-28-0	0.285		0.0309	0.103		2
06148	Vanadium	7440-62-2	42.5		0.0226	0.103		2
06149	Zinc	7440-66-6	156		1.44	7.72		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.28		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305879
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-1 SDG#: DE171-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011	17:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011	19:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011	07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011	06:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011	17:15	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011	03:31	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011	15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011	15:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011	21:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011	21:34	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011	15:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011	21:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011	21:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011	15:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011	15:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011	21:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011	21:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011	15:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011	15:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011	15:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011	21:34	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011	09:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011	09:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305879
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-1 SDG#: DE171-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 23:10	David K Beck	5
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 10:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 02:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 16:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039401B	06/07/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	105		16.8	33.6		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	17	U	17	170		1
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	1.6	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	16		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	18		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	37		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	12		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	14		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	27		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	4.1		0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	30		0.67	1.7		1
10138	Fluorene	86-73-7	0.83	J	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	6.2		0.67	1.7		1
10138	Pyrene	129-00-0	23		0.67	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	95	U	95	280	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	95	U	95	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	47	U	47	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	J	0.81	1.7		1
10401	MCPA	94-74-6	350	U	350	350		1
10401	MCPP (Mecoprop)	93-65-2	130	J	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	2,800	J	1,200	3,100		1

The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.8	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.65		0.067	0.35		1
01363	p,p-DDT	50-29-3	1.0		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.59		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.16	U	0.16	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.074	U	0.074	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: heptachlor epoxide.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	11		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	7.8		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

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Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	6.0	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	37		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	69		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.14	20.4		1
07914	Boron	7440-42-8	7.53		0.368	5.11		1
01650	Calcium	7440-70-2	3,090		2.55	20.4		1
01654	Iron	7439-89-6	16,900		4.81	20.4		1
01656	Lithium	7439-93-2	20.0		0.63	2.0		1
01657	Magnesium	7439-95-4	3,610		0.449	10.2		1
06958	Manganese	7439-96-5	254		0.0797	0.511		1
10145	Phosphorus	7723-14-0	390		0.572	10.2		1
01662	Potassium	7440-09-7	3,000		11.5	51.1		1
01667	Sodium	7440-23-5	84.8	J	6.08	102		1
07968	Strontium	7440-24-6	19.3		0.0633	0.511		1
06969	Tin	7440-31-5	2.56	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,250		0.388	1.02		1
10146	Zirconium	7440-67-7	3.64	J	0.470	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.211		0.0607	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.0		0.0809	0.405		2

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Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	149		0.109	0.405		2
06127	Beryllium	7440-41-7	0.731		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.557		0.0405	0.101		2
06131	Chromium	7440-47-3	29.1		0.121	0.405		2
06132	Cobalt	7440-48-4	8.09		0.0202	0.101		2
06133	Copper	7440-50-8	18.5		0.0667	0.405		2
06135	Lead	7439-92-1	13.5		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.913		0.0506	0.101		2
06139	Nickel	7440-02-0	23.2		0.101	0.405		2
06141	Selenium	7782-49-2	0.157	J	0.0405	0.405		2
06142	Silver	7440-22-4	0.237		0.0121	0.101		2
06145	Thallium	7440-28-0	0.361		0.0303	0.101		2
06148	Vanadium	7440-62-2	50.0		0.0222	0.101		2
06149	Zinc	7440-66-6	101		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0366	J	0.0029	0.0999		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.6		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 14:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 17:49	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 19:40	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 09:18	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 17:33	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 07:15	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 13:27	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 17:42	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 03:49	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 02:53	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/03/2011 23:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 14:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 03:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:03	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 09:58	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:45	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:03	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:03	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:03	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:03	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:03	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:03	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:45	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 10:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 10:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 02:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11158243202A	06/08/2011 16:47	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201A	06/08/2011 10:00	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305880
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-2 SDG#: DE171-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201A	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039401B	06/07/2011 12:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.0	U	17.0	33.9		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	J	0.69	1.7		1
10138	Acenaphthylene	208-96-8	12		0.34	1.7		1
10138	Anthracene	120-12-7	64		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	130		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	56		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	240		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	20		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	85		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	310		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	8.7		0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	250		0.69	1.7		1
10138	Fluorene	86-73-7	1.7	J	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	27		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.75	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	12		0.69	1.7		1
10138	Pyrene	129-00-0	190		0.69	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1

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Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	320		78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,800		620	1,500		1
	The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1

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Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	2.7		0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.089	J	0.035	0.17		1
01363	Chlordane	57-74-9	2.4	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.45		0.068	0.35		1
01363	p,p-DDT	50-29-3	2.4		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.81		0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.1	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	10		2.1	6.2		5
10199	EFH (C21-C30)	n.a.	21		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	110		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,100		5.17	20.6		1
07914	Boron	7440-42-8	8.32		0.370	5.14		1
01650	Calcium	7440-70-2	3,430		2.57	20.6		1
01654	Iron	7439-89-6	20,600		4.84	20.6		1
01656	Lithium	7439-93-2	24.9		0.64	2.1		1
01657	Magnesium	7439-95-4	4,600		0.452	10.3		1
06958	Manganese	7439-96-5	318		0.0802	0.514		1
10145	Phosphorus	7723-14-0	483		0.576	10.3		1
01662	Potassium	7440-09-7	3,620		11.6	51.4		1
01667	Sodium	7440-23-5	86.4	J	6.12	103		1
07968	Strontium	7440-24-6	21.1		0.0637	0.514		1
06969	Tin	7440-31-5	2.59	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,310		0.391	1.03		1
10146	Zirconium	7440-67-7	4.35	J	0.473	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.548		0.0617	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	23.0		0.0822	0.411		2
06126	Barium	7440-39-3	124		0.111	0.411		2
06127	Beryllium	7440-41-7	0.753		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.451		0.0411	0.103		2
06131	Chromium	7440-47-3	27.8		0.123	0.411		2
06132	Cobalt	7440-48-4	8.09		0.0206	0.103		2
06133	Copper	7440-50-8	16.0		0.0678	0.411		2
06135	Lead	7439-92-1	11.9		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.785		0.0514	0.103		2
06139	Nickel	7440-02-0	22.0		0.103	0.411		2
06141	Selenium	7782-49-2	0.128	J	0.0411	0.411		2
06142	Silver	7440-22-4	0.133		0.0123	0.103		2

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Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.311		0.0308	0.103		2
06148	Vanadium	7440-62-2	46.7		0.0226	0.103		2
06149	Zinc	7440-66-6	81.9		0.576	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0645	J	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.33		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 15:03	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 18:16	Matthew S Woods	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 20:11	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 10:01	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 17:42	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 07:43	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 17:56	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/25/2011 05:33	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 04:08	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 03:18	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/03/2011 23:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 14:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 04:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:01	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:48	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:07	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:07	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:07	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:07	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2

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Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305881
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-3 SDG#: DE171-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 11:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 11:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 03:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 17:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201A	06/08/2011 10:01	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201A	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305882
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-4 SDG#: DE171-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	152		17.0	34.1		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-134-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305882
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-4 SDG#: DE171-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.98	J	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	5.6		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	9.8	J	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	5.8		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.2	19		1
10138	Fluoranthene	206-44-0	8.8		0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	2.0		0.69	1.7		1
10138	Pyrene	129-00-0	5.0		0.69	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	59	U	59	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	39	U	39	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	78	U	78	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	78	U	78	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	39	U	39	120	10000000	1

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Sample Description: SL-134-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305882
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-4 SDG#: DE171-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	39	U	39	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	39	U	39	120	10000000	1
10132	HMX	2691-41-0	98	U	98	290	10000000	1
10132	Nitrobenzene	98-95-3	39	U	39	120	10000000	1
10132	Nitroglycerin	55-63-0	780	U	780	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	78	U	78	120	10000000	1
10132	3-Nitrotoluene	99-08-1	98	U	98	120	10000000	1
10132	4-Nitrotoluene	99-99-0	78	U	78	120	10000000	1
10132	PETN	78-11-5	780	U	780	2,300	10000000	1
10132	RDX	121-82-4	49	U	49	120	10000000	1
10132	Tetryl	479-45-8	60	U	60	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	39	U	39	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	39	U	39	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	1.2	U	1.2	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	940		78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,000	J	620	1,600		1

The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.

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SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305882
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171-4 SDG#: DE171-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.14	J	0.068	0.35		1
01363	p,p-DDT	50-29-3	1.0		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.24	J	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.83	U	0.83	2.5		2
10199	EFH (C15-C20)	n.a.	1.4	J	0.83	2.5		2
10199	EFH (C21-C30)	n.a.	14		0.83	2.5		2
10199	EFH (C30 - C40)	n.a.	37		0.83	2.5		2
10199	EFH (C8-C11)	n.a.	0.83	U	0.83	2.5		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1

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SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305882
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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171-4 SDG#: DE171-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.06	20.1		1
07914	Boron	7440-42-8	7.85		0.362	5.03		1
01650	Calcium	7440-70-2	3,930		2.51	20.1		1
01654	Iron	7439-89-6	22,200		4.73	20.1		1
01656	Lithium	7439-93-2	27.3		0.62	2.0		1
01657	Magnesium	7439-95-4	5,330		0.442	10.1		1
06958	Manganese	7439-96-5	310		0.0784	0.503		1
10145	Phosphorus	7723-14-0	442		0.563	10.1		1
01662	Potassium	7440-09-7	2,850		11.4	50.3		1
01667	Sodium	7440-23-5	137		5.98	101		1
07968	Strontium	7440-24-6	22.3		0.0623	0.503		1
06969	Tin	7440-31-5	2.70	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,380		0.382	1.01		1
10146	Zirconium	7440-67-7	4.88	J	0.462	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.287		0.0609	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	43.7		0.0812	0.406		2
06126	Barium	7440-39-3	139		0.110	0.406		2
06127	Beryllium	7440-41-7	0.924		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.474		0.0406	0.101		2
06131	Chromium	7440-47-3	34.4		0.122	0.406		2
06132	Cobalt	7440-48-4	9.62		0.0203	0.101		2
06133	Copper	7440-50-8	19.3		0.0670	0.406		2
06135	Lead	7439-92-1	15.4		0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.702		0.0507	0.101		2
06139	Nickel	7440-02-0	29.2		0.101	0.406		2
06141	Selenium	7782-49-2	0.187	J	0.0406	0.406		2
06142	Silver	7440-22-4	0.107		0.0122	0.101		2
06145	Thallium	7440-28-0	0.385		0.0304	0.101		2

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SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305882
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
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171-4 SDG#: DE171-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06148	Vanadium	7440-62-2	56.0		0.0223	0.101		2
06149	Zinc	7440-66-6	98.6		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.153		0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 15:20	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 18:42	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 20:42	Gregory J Drahovsky	1

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SL-134-SA5DN-SS-0.0-0.5

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 10:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 17:52	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 08:10	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 18:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 04:26	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 01:38	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 20:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 14:35	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/13/2011 21:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:12	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:05	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:52	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:12	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:12	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:12	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:12	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:12	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:52	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2

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SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305882
LLI Group # 1249810
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Project Name: SSFL Area IV Collocated Soil Sampling

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171-4 SDG#: DE171-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 11:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 11:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 03:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 17:27	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:02	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-5 SDG#: DE171-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.9	U	16.9	33.7		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-5 SDG#: DE171-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.46	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	3.1		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.1		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	5.7		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	5.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	26		6.1	18		1
10138	Fluoranthene	206-44-0	6.4		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.82	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	3.2		0.68	1.7		1
10138	Pyrene	129-00-0	5.9		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1

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Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-5 SDG#: DE171-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	95	U	95	280	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	95	U	95	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	47	U	47	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.97	U	0.97	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	1,400		78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,200	J	610	1,500		1

The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

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171-5 SDG#: DE171-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	7.4		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.35		1
01363	p,p-DDT	50-29-3	0.84		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	1.0		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.35		1
01363	Endrin Ketone	53494-70-5	0.095	U	0.095	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.045	U	0.045	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.2	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	4.1	U	4.1	12		10
10199	EFH (C21-C30)	n.a.	20		4.1	12		10
10199	EFH (C30 - C40)	n.a.	82		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10

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Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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171-5 SDG#: DE171-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		5.09	20.2		1
07914	Boron	7440-42-8	7.85		0.364	5.06		1
01650	Calcium	7440-70-2	4,640		2.53	20.2		1
01654	Iron	7439-89-6	20,800		4.76	20.2		1
01656	Lithium	7439-93-2	28.5		0.63	2.0		1
01657	Magnesium	7439-95-4	5,370		0.445	10.1		1
06958	Manganese	7439-96-5	298		0.0789	0.506		1
10145	Phosphorus	7723-14-0	467		0.566	10.1		1
01662	Potassium	7440-09-7	3,130		11.4	50.6		1
01667	Sodium	7440-23-5	160		6.02	101		1
07968	Strontium	7440-24-6	22.5		0.0627	0.506		1
06969	Tin	7440-31-5	3.01	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,380		0.384	1.01		1
10146	Zirconium	7440-67-7	5.01	J	0.465	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.417		0.0601	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	42.2		0.0801	0.401		2
06126	Barium	7440-39-3	147		0.108	0.401		2
06127	Beryllium	7440-41-7	0.943		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.419		0.0401	0.100		2
06131	Chromium	7440-47-3	37.6		0.120	0.401		2
06132	Cobalt	7440-48-4	10.6		0.0200	0.100		2
06133	Copper	7440-50-8	36.6		0.0661	0.401		2
06135	Lead	7439-92-1	21.2		0.0104	0.200		2
06138	Molybdenum	7439-98-7	0.802		0.0501	0.100		2
06139	Nickel	7440-02-0	31.5		0.100	0.401		2
06141	Selenium	7782-49-2	0.144	J	0.0401	0.401		2
06142	Silver	7440-22-4	0.128		0.0120	0.100		2

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Analysis Report

Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-5 SDG#: DE171-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.441		0.0300	0.100		2
06148	Vanadium	7440-62-2	56.1		0.0220	0.100		2
06149	Zinc	7440-66-6	144		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.191		0.0029	0.0995		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.03		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 15:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 19:09	Matthew S Woods	1

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Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-5 SDG#: DE171-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 21:13	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 11:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 18:02	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 08:38	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 18:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 04:45	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 06:12	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 20:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 15:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 05:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:16	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:56	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:16	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:16	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:16	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:16	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:16	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:56	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305883
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-5 SDG#: DE171-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 11:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 11:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 04:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 17:39	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:04	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-6 SDG#: DE171-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	40.9		16.9	33.8		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-6 SDG#: DE171-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.6		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	3.2		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.4		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	5.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.1	18		1
10138	Fluoranthene	206-44-0	4.0		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.1	J	0.68	1.7		1
10138	Pyrene	129-00-0	4.6		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1

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Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-6 SDG#: DE171-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	94	U	94	280	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	94	U	94	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	47	U	47	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	710		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,200	J	610	1,500		1
	The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-6 SDG#: DE171-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.4	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.093	U	0.093	0.35		1
01363	p,p-DDE	72-55-9	0.87		0.067	0.35		1
01363	p,p-DDT	50-29-3	2.5		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.26	J	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.063	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-6 SDG#: DE171-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	12		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	54		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		5.08	20.2		1
07914	Boron	7440-42-8	8.56		0.363	5.05		1
01650	Calcium	7440-70-2	4,010		2.52	20.2		1
01654	Iron	7439-89-6	22,500		4.75	20.2		1
01656	Lithium	7439-93-2	29.0		0.63	2.0		1
01657	Magnesium	7439-95-4	5,230		0.444	10.1		1
06958	Manganese	7439-96-5	339		0.0787	0.505		1
10145	Phosphorus	7723-14-0	493		0.565	10.1		1
01662	Potassium	7440-09-7	3,400		11.4	50.5		1
01667	Sodium	7440-23-5	139		6.01	101		1
07968	Strontium	7440-24-6	23.7		0.0626	0.505		1
06969	Tin	7440-31-5	2.65	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,450		0.384	1.01		1
10146	Zirconium	7440-67-7	5.57		0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.297		0.0606	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	30.8		0.0807	0.404		2
06126	Barium	7440-39-3	170		0.109	0.404		2
06127	Beryllium	7440-41-7	0.987		0.0161	0.101		2

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Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-6 SDG#: DE171-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.456		0.0404	0.101		2
06131	Chromium	7440-47-3	39.4		0.121	0.404		2
06132	Cobalt	7440-48-4	10.6		0.0202	0.101		2
06133	Copper	7440-50-8	23.0		0.0666	0.404		2
06135	Lead	7439-92-1	17.5		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.960		0.0505	0.101		2
06139	Nickel	7440-02-0	30.1		0.101	0.404		2
06141	Selenium	7782-49-2	0.237	J	0.0404	0.404		2
06142	Silver	7440-22-4	0.0894	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.431		0.0303	0.101		2
06148	Vanadium	7440-62-2	63.0		0.0222	0.101		2
06149	Zinc	7440-66-6	109		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0358	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.80	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
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171-6 SDG#: DE171-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 15:55	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 19:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 21:49	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 12:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 18:11	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 09:05	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 18:52	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 06:17	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 03:43	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 20:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 15:39	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 06:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:59	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:20	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:20	Eric L Eby	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305884
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-6 SDG#: DE171-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:59	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 15:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 15:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 04:35	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 17:50	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:05	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	48.8		16.8	33.7		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.75	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.8		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.9		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.1	18		1
10138	Fluoranthene	206-44-0	1.6	J	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.98	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.3	J	0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1

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Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	95	U	95	280	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	95	U	95	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	47	U	47	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	0.78	U	0.78	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	540		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,200	J	610	1,500		1

The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.

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Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	3.0	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.090	U	0.090	0.35		1
01363	p,p-DDE	72-55-9	0.42		0.068	0.35		1
01363	p,p-DDT	50-29-3	1.7		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	1.1		0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.14	J	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	3.7		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	2.6		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	11		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	49		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		5.05	20.1		1
07914	Boron	7440-42-8	7.98		0.361	5.02		1
01650	Calcium	7440-70-2	4,140		2.51	20.1		1
01654	Iron	7439-89-6	21,000		4.73	20.1		1
01656	Lithium	7439-93-2	28.1		0.62	2.0		1
01657	Magnesium	7439-95-4	5,070		0.442	10.0		1
06958	Manganese	7439-96-5	317		0.0783	0.502		1
10145	Phosphorus	7723-14-0	433		0.562	10.0		1
01662	Potassium	7440-09-7	3,170		11.3	50.2		1
01667	Sodium	7440-23-5	117		5.97	100		1
07968	Strontium	7440-24-6	21.5		0.0622	0.502		1
06969	Tin	7440-31-5	2.73	J	1.00	10.0		1
06970	Titanium	7440-32-6	1,380		0.381	1.00		1
10146	Zirconium	7440-67-7	5.04		0.462	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.317		0.0591	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	40.4		0.0787	0.394		2
06126	Barium	7440-39-3	140		0.106	0.394		2
06127	Beryllium	7440-41-7	0.974		0.0157	0.0984		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.620		0.0394	0.0984		2
06131	Chromium	7440-47-3	34.0		0.118	0.394		2
06132	Cobalt	7440-48-4	9.79		0.0197	0.0984		2
06133	Copper	7440-50-8	20.8		0.0650	0.394		2
06135	Lead	7439-92-1	15.9		0.0102	0.197		2
06138	Molybdenum	7439-98-7	0.823		0.0492	0.0984		2
06139	Nickel	7440-02-0	28.7		0.0984	0.394		2
06141	Selenium	7782-49-2	0.134	J	0.0394	0.394		2
06142	Silver	7440-22-4	0.0955	J	0.0118	0.0984		2
06145	Thallium	7440-28-0	0.371		0.0295	0.0984		2
06148	Vanadium	7440-62-2	53.3		0.0217	0.0984		2
06149	Zinc	7440-66-6	112		0.551	2.95		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.284		0.0028	0.0968		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.34		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 16:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 20:02	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 22:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 12:51	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 18:21	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 10:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 19:06	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 06:36	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 04:08	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/04/2011 00:48	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 15:52	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 07:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 22:03	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 22:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 22:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 22:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 22:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:24	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305885
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-7 SDG#: DE171-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 22:03	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 16:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 16:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 04:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 18:01	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:06	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	57	U	57	110	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	110	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	76	U	76	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	76	U	76	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	110	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	110	10000000	1

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Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	110	10000000	1
10132	HMX	2691-41-0	95	U	95	290	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	110	10000000	1
10132	Nitroglycerin	55-63-0	760	U	760	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	76	U	76	110	10000000	1
10132	3-Nitrotoluene	99-08-1	95	U	95	110	10000000	1
10132	4-Nitrotoluene	99-99-0	76	U	76	110	10000000	1
10132	PETN	78-11-5	760	U	760	2,300	10000000	1
10132	RDX	121-82-4	48	U	48	110	10000000	1
10132	Tetryl	479-45-8	58	U	58	110	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	110	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	110	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	290		78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	2,100		620	1,500		1
	The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1

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SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35		1
01363	p,p-DDT	50-29-3	0.068	U	0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	5.8	J	5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.7		5
10225	PCB-1260	11096-82-5	2.1	J	2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	13		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	49		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5

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Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		5.02	20.0		1
07914	Boron	7440-42-8	0.359	U	0.359	4.99		1
01650	Calcium	7440-70-2	3,740		2.49	20.0		1
01654	Iron	7439-89-6	24,100		4.70	20.0		1
01656	Lithium	7439-93-2	32.6		0.62	2.0		1
01657	Magnesium	7439-95-4	5,570		0.439	9.98		1
06958	Manganese	7439-96-5	344		0.0778	0.499		1
10145	Phosphorus	7723-14-0	499		0.559	9.98		1
01662	Potassium	7440-09-7	3,180		11.3	49.9		1
01667	Sodium	7440-23-5	114		5.94	99.8		1
07968	Strontium	7440-24-6	18.9		0.0619	0.499		1
06969	Tin	7440-31-5	2.94	J	0.998	9.98		1
06970	Titanium	7440-32-6	1,480		0.379	0.998		1
10146	Zirconium	7440-67-7	5.95		0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.237		0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	33.9		0.0806	0.403		2
06126	Barium	7440-39-3	153		0.109	0.403		2
06127	Beryllium	7440-41-7	0.923		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.383		0.0403	0.101		2
06131	Chromium	7440-47-3	28.7		0.121	0.403		2
06132	Cobalt	7440-48-4	11.4		0.0202	0.101		2
06133	Copper	7440-50-8	17.0		0.0665	0.403		2
06135	Lead	7439-92-1	10.3		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.843		0.0504	0.101		2
06139	Nickel	7440-02-0	26.1		0.101	0.403		2
06141	Selenium	7782-49-2	0.156	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0512	J	0.0121	0.101		2

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Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.388		0.0302	0.101		2
06148	Vanadium	7440-62-2	51.3		0.0222	0.101		2
06149	Zinc	7440-66-6	95.2		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0282	J	0.0028	0.0985		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 16:30	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 15:36	Matthew S Woods	1

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SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
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171-8 SDG#: DE171-08BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 15:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 14:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 18:30	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 05:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 19:34	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 06:54	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 04:33	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/04/2011 01:03	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 16:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 07:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 15:26	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011 21:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:09	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 15:26	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 15:26	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 15:26	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:09	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 15:26	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 15:26	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 15:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:09	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305886
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 09:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 09:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 01:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11158243202A	06/08/2011 18:07	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:07	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	945		169	337		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,200		17	170		1
04688	Acenaphthylene	208-96-8	1,200		17	170		1
04688	Aniline	62-53-3	840		170	510		1
04688	Anthracene	120-12-7	1,200		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,200		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,300		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,200		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,300		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,300		17	170		1
04688	Benzoic acid	65-85-0	360	J	170	510		1
04688	Benzyl alcohol	100-51-6	1,300		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,400		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,200		17	170		1
04688	Carbazole	86-74-8	1,200		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		34	170		1
04688	4-Chloroaniline	106-47-8	600		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,200		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,200		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,200		17	170		1
04688	2-Chlorophenol	95-57-8	1,300		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,200		34	170		1
04688	Chrysene	218-01-9	1,300		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,300		17	170		1
04688	Dibenzofuran	132-64-9	1,200		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,200		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,100		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,100		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	920		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,300		17	170		1
04688	Diethylphthalate	84-66-2	1,200		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,300		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700		34	170		1
04688	Dimethylphthalate	131-11-3	1,200		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	830		170	510		1
04688	2,4-Dinitrophenol	51-28-5	850	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,200		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,200		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,400		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,400		17	340		1
04688	Fluoranthene	206-44-0	1,100		17	170		1
04688	Fluorene	86-73-7	1,200		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	1,200	17	170		1
04688	Hexachlorobutadiene	87-68-3	1,100	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	1,800	170	510		1
04688	Hexachloroethane	67-72-1	1,100	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,100	17	170		1
04688	Isophorone	78-59-1	1,200	17	170		1
04688	1-Methylnaphthalene	90-12-0	1,300	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,200	17	170		1
04688	2-Methylphenol	95-48-7	1,300	34	170		1
04688	4-Methylphenol	106-44-5	1,200	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,200	17	170		1
04688	2-Nitroaniline	88-74-4	1,300	17	170		1
04688	3-Nitroaniline	99-09-2	1,200	34	170		1
04688	4-Nitroaniline	100-01-6	1,100	68	170		1
04688	Nitrobenzene	98-95-3	1,200	17	170		1
04688	2-Nitrophenol	88-75-5	1,100	17	170		1
04688	4-Nitrophenol	100-02-7	1,000	170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,100	34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,300	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,300	17	170		1
04688	Pentachlorophenol	87-86-5	940	170	510		1
04688	Phenanthrene	85-01-8	1,200	17	170		1
04688	Phenol	108-95-2	1,400	17	170		1
04688	Pyrene	129-00-0	1,400	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,200	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,200	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	29	0.68	1.7		1
10138	Acenaphthylene	208-96-8	28	0.34	1.7		1
10138	Anthracene	120-12-7	31	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	34	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	35	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	38	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	28	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	33	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	37	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	37	6.1	18		1
10138	Chrysene	218-01-9	33	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	32	0.68	1.7		1
10138	Diethylphthalate	84-66-2	30	6.1	18		1

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Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	31		6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44		6.1	18		1
10138	Fluoranthene	206-44-0	34		0.68	1.7		1
10138	Fluorene	86-73-7	30		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	31		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	31		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	28		0.68	1.7		1
10138	Naphthalene	91-20-3	29		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	41		6.1	18		1
10138	Phenanthrene	85-01-8	30		0.68	1.7		1
10138	Pyrene	129-00-0	30		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		62	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		41	120		1
10132	HMX	2691-41-0	1,800		100	310		1
10132	Nitrobenzene	98-95-3	2,200		41	120		1
10132	Nitroglycerin	55-63-0	45,000		820	2,500		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,300		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	56,000		820	2,500		1
10132	RDX	121-82-4	1,800		51	120		1
10132	Tetryl	479-45-8	1,500		63	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,900		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.7		1.2	3.7		1
10401	Dalapon	75-99-0	8.6	J	4.5	9.2		1
10401	2,4-DB	94-82-6	2.4		0.64	1.7		1
10401	Dicamba	1918-00-9	0.42	J	0.41	1.2		1
10401	Dinoseb	88-85-7	1.8	J	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.9		0.82	1.7		1
10401	MCPA	94-74-6	110	J	78	260		1
10401	MCPP (Mecoprop)	93-65-2	660		77	260		1
10401	2,4,5-T	93-76-5	0.18		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.64		0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	6,300		620	1,500		1
	The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.24		0.068	0.17		1
01363	Alpha BHC	319-84-6	0.34		0.035	0.17		1
01363	Beta BHC	319-85-7	0.28		0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.33		0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.66		0.068	0.35		1
01363	p,p-DDE	72-55-9	0.45		0.068	0.35		1
01363	p,p-DDT	50-29-3	0.76		0.068	0.35		1
01363	Delta BHC	319-86-8	0.28		0.037	0.17		1
01363	Dieldrin	60-57-1	0.70		0.068	0.35		1
01363	Endosulfan I	959-98-8	0.21		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.41		0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.53		0.068	0.35		1
01363	Endrin	72-20-8	0.68		0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.41		0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.51		0.068	0.35		1
01363	Heptachlor	76-44-8	0.39		0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.28		0.035	0.17		1
01363	Methoxychlor	72-43-5	3.9		0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17		5
10225	PCB-1016	12674-11-2	16		1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.7		5
10225	PCB-1260	11096-82-5	17		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.6	J	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	11		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	44		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,600		100	510		1
10501	Isopropanol	67-63-0	1,800		100	510		1
10501	Methanol	67-56-1	1,900		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	16		5.1	10		1
08283	Ethylene glycol	107-21-1	89		5.1	10		1
08283	Propylene glycol	57-55-6	110		5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.2	3.6		1
10318	o-Terphenyl	84-15-1	1.6	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		5.12	20.4		1
07914	Boron	7440-42-8	203		0.366	5.09		1
01650	Calcium	7440-70-2	4,150		2.54	20.4		1
01654	Iron	7439-89-6	21,800		4.79	20.4		1
01656	Lithium	7439-93-2	132		0.63	2.0		1
01657	Magnesium	7439-95-4	5,380		0.448	10.2		1
06958	Manganese	7439-96-5	420		0.0794	0.509		1
10145	Phosphorus	7723-14-0	562		0.570	10.2		1
01662	Potassium	7440-09-7	4,170		11.5	50.9		1
01667	Sodium	7440-23-5	1,100		6.05	102		1
07968	Strontium	7440-24-6	116		0.0631	0.509		1
06969	Tin	7440-31-5	341		1.02	10.2		1
06970	Titanium	7440-32-6	1,650		0.387	1.02		1
10146	Zirconium	7440-67-7	109		0.468	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.02		0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	32.9		0.0806	0.403		2
06126	Barium	7440-39-3	139		0.109	0.403		2
06127	Beryllium	7440-41-7	1.67		0.0161	0.101		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.55	0.0403	0.101		2
06131	Chromium	7440-47-3	36.3	0.121	0.403		2
06132	Cobalt	7440-48-4	69.8	0.0202	0.101		2
06133	Copper	7440-50-8	26.8	0.0665	0.403		2
06135	Lead	7439-92-1	12.6	0.0105	0.202		2
06138	Molybdenum	7439-98-7	14.0	0.0504	0.101		2
06139	Nickel	7440-02-0	33.5	0.101	0.403		2
06141	Selenium	7782-49-2	2.68	0.0403	0.403		2
06142	Silver	7440-22-4	13.1	0.0121	0.101		2
06145	Thallium	7440-28-0	0.861	0.0302	0.101		2
06148	Vanadium	7440-62-2	55.2	0.0222	0.101		2
06149	Zinc	7440-66-6	90.5	0.564	3.02		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.210	0.0028	0.0991		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.4	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.7	0.82	1.5		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	586	9.2	30.8		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	39.3	1.0	5.1		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	4.8	0.18	0.50		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 16:47	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 16:03	Matthew S Woods	1

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Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 16:01	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 15:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 18:40	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 05:53	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 19:47	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 07:13	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 04:58	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/04/2011 01:17	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 16:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 09:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 15:38	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011 21:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:20	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 15:38	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 15:38	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 15:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 15:38	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 15:38	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 15:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:20	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2

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Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305887
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 10:14	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 10:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11166621201A	06/26/2011 00:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 18:24	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	751		169	337		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,300		17	170		1
04688	Acenaphthylene	208-96-8	1,400		17	170		1
04688	Aniline	62-53-3	880		170	510		1
04688	Anthracene	120-12-7	1,300		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,300		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,400		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,300		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,400		17	170		1
04688	Benzoic acid	65-85-0	380	J	170	510		1
04688	Benzyl alcohol	100-51-6	1,400		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,300		17	170		1
04688	Carbazole	86-74-8	1,200		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		34	170		1
04688	4-Chloroaniline	106-47-8	690		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,300		17	170		1
04688	2-Chlorophenol	95-57-8	1,400		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		34	170		1
04688	Chrysene	218-01-9	1,400		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,400		17	170		1
04688	Dibenzofuran	132-64-9	1,300		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,200		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,100		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,200		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,300		17	170		1
04688	Diethylphthalate	84-66-2	1,300		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,400		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700		34	170		1
04688	Dimethylphthalate	131-11-3	1,300		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	900		170	510		1
04688	2,4-Dinitrophenol	51-28-5	1,100		340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,200		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,300		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,400		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500		17	340		1
04688	Fluoranthene	206-44-0	1,200		17	170		1
04688	Fluorene	86-73-7	1,300		17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	1,300	17	170		1
04688	Hexachlorobutadiene	87-68-3	1,200	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	1,800	170	510		1
04688	Hexachloroethane	67-72-1	1,200	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,300	17	170		1
04688	Isophorone	78-59-1	1,300	17	170		1
04688	1-Methylnaphthalene	90-12-0	1,300	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,200	17	170		1
04688	2-Methylphenol	95-48-7	1,400	34	170		1
04688	4-Methylphenol	106-44-5	1,200	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,300	17	170		1
04688	2-Nitroaniline	88-74-4	1,300	17	170		1
04688	3-Nitroaniline	99-09-2	1,300	34	170		1
04688	4-Nitroaniline	100-01-6	1,100	68	170		1
04688	Nitrobenzene	98-95-3	1,300	17	170		1
04688	2-Nitrophenol	88-75-5	1,300	17	170		1
04688	4-Nitrophenol	100-02-7	1,100	170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,100	34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,400	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,400	17	170		1
04688	Pentachlorophenol	87-86-5	1,100	170	510		1
04688	Phenanthrene	85-01-8	1,300	17	170		1
04688	Phenol	108-95-2	1,400	17	170		1
04688	Pyrene	129-00-0	1,500	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,300	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,300	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	29	0.68	1.7		1
10138	Acenaphthylene	208-96-8	28	0.34	1.7		1
10138	Anthracene	120-12-7	31	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	34	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	34	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	40	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	23	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	33	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	36	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	37	6.1	18		1
10138	Chrysene	218-01-9	36	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	27	0.68	1.7		1
10138	Diethylphthalate	84-66-2	31	6.1	18		1

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Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	30		6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	48		6.1	18		1
10138	Fluoranthene	206-44-0	36		0.68	1.7		1
10138	Fluorene	86-73-7	30		0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	31		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	28		0.68	1.7		1
10138	Naphthalene	91-20-3	29		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	36		6.1	18		1
10138	Phenanthrene	85-01-8	31		0.68	1.7		1
10138	Pyrene	129-00-0	31		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		59	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		40	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	79	U	79	240		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	79	U	79	240		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		40	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,200		40	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		40	120		1
10132	HMX	2691-41-0	1,900		99	300		1
10132	Nitrobenzene	98-95-3	2,300		40	120		1
10132	Nitroglycerin	55-63-0	46,000		790	2,400		1
10132	2-Nitrotoluene	88-72-2	2,100		79	120		1
10132	3-Nitrotoluene	99-08-1	2,300		99	120		1
10132	4-Nitrotoluene	99-99-0	2,100		79	120		1
10132	PETN	78-11-5	56,000		790	2,400		1
10132	RDX	121-82-4	1,900		49	120		1
10132	Tetryl	479-45-8	1,500		60	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		40	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		40	120		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.5		1.2	3.7		1
10401	Dalapon	75-99-0	8.2	J	4.5	9.2		1
10401	2,4-DB	94-82-6	3.9		0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	J	0.41	1.2		1
10401	Dinoseb	88-85-7	1.8	J	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.5		0.82	1.7		1
10401	MCPA	94-74-6	140	J	78	260		1
10401	MCPP (Mecoprop)	93-65-2	800		77	260		1
10401	2,4,5-T	93-76-5	0.12	J	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.40		0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	6,600		610	1,500		1
	The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.23		0.068	0.17		1
01363	Alpha BHC	319-84-6	0.33		0.035	0.17		1
01363	Beta BHC	319-85-7	0.24		0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.30		0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.66		0.068	0.35		1
01363	p,p-DDE	72-55-9	0.45		0.068	0.35		1
01363	p,p-DDT	50-29-3	0.70		0.068	0.35		1
01363	Delta BHC	319-86-8	0.24		0.037	0.17		1
01363	Dieldrin	60-57-1	0.65		0.068	0.35		1
01363	Endosulfan I	959-98-8	0.18		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.40		0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.45		0.068	0.35		1
01363	Endrin	72-20-8	0.68		0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.41		0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.54		0.068	0.35		1
01363	Heptachlor	76-44-8	0.37		0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.28		0.035	0.17		1
01363	Methoxychlor	72-43-5	3.7		0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	5.1	U	5.1	17		5
10225	PCB-1016	12674-11-2	19		1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.7		5
10225	PCB-1260	11096-82-5	18		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							

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Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.8	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	16		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	57		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,700		100	510		1
10501	Isopropanol	67-63-0	1,800		100	510		1
10501	Methanol	67-56-1	2,000		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	17		5.1	10		1
08283	Ethylene glycol	107-21-1	95		5.1	10		1
08283	Propylene glycol	57-55-6	120		5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.3	3.6		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.7	J	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,800		4.97	19.8		1
07914	Boron	7440-42-8	197		0.356	4.94		1
01650	Calcium	7440-70-2	4,160		2.47	19.8		1
01654	Iron	7439-89-6	22,500		4.65	19.8		1
01656	Lithium	7439-93-2	131		0.61	2.0		1
01657	Magnesium	7439-95-4	5,520		0.435	9.88		1
06958	Manganese	7439-96-5	384		0.0771	0.494		1
10145	Phosphorus	7723-14-0	568		0.553	9.88		1
01662	Potassium	7440-09-7	4,300		11.2	49.4		1
01667	Sodium	7440-23-5	1,080		5.88	98.8		1
07968	Strontium	7440-24-6	115		0.0613	0.494		1
06969	Tin	7440-31-5	326		0.988	9.88		1
06970	Titanium	7440-32-6	1,670		0.376	0.988		1
10146	Zirconium	7440-67-7	106		0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.09		0.0593	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	37.5		0.0791	0.395		2
06126	Barium	7440-39-3	176		0.107	0.395		2
06127	Beryllium	7440-41-7	1.88		0.0158	0.0988		2

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Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.81	0.0395	0.0988		2
06131	Chromium	7440-47-3	42.0	0.119	0.395		2
06132	Cobalt	7440-48-4	87.0	0.0198	0.0988		2
06133	Copper	7440-50-8	32.7	0.0652	0.395		2
06135	Lead	7439-92-1	16.1	0.0103	0.198		2
06138	Molybdenum	7439-98-7	16.6	0.0494	0.0988		2
06139	Nickel	7440-02-0	41.4	0.0988	0.395		2
06141	Selenium	7782-49-2	2.94	0.0395	0.395		2
06142	Silver	7440-22-4	15.3	0.0119	0.0988		2
06145	Thallium	7440-28-0	1.06	0.0296	0.0988		2
06148	Vanadium	7440-62-2	65.9	0.0217	0.0988		2
06149	Zinc	7440-66-6	112	0.553	2.96		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.192	0.0028	0.0983		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 17:04	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 16:29	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 16:37	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 16:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 18:59	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 06:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 20:01	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 07:31	Sarah M Snyder	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 05:22	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/04/2011 01:32	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 16:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 10:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 15:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011 21:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:24	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 15:42	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 15:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 15:42	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 15:42	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 15:42	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 15:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:24	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305888
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305889
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.07	20.2		1
07914	Boron	7440-42-8	0.363	U	0.363	5.04		1
01650	Calcium	7440-70-2	3,540		2.52	20.2		1
01654	Iron	7439-89-6	21,800		4.75	20.2		1
01656	Lithium	7439-93-2	30.2		0.62	2.0		1
01657	Magnesium	7439-95-4	5,090		0.443	10.1		1
06958	Manganese	7439-96-5	327		0.0786	0.504		1
10145	Phosphorus	7723-14-0	463		0.564	10.1		1
01662	Potassium	7440-09-7	2,910		11.4	50.4		1
01667	Sodium	7440-23-5	103		6.00	101		1
07968	Strontium	7440-24-6	18.7		0.0625	0.504		1
06969	Tin	7440-31-5	2.67	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,400		0.383	1.01		1
10146	Zirconium	7440-67-7	6.80		0.463	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	19.0		0.0806	0.403		2
06126	Barium	7440-39-3	99.4		0.109	0.403		2
06127	Beryllium	7440-41-7	0.617		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.202		0.0403	0.101		2
06131	Chromium	7440-47-3	18.8		0.121	0.403		2
06132	Cobalt	7440-48-4	6.82		0.0202	0.101		2
06133	Copper	7440-50-8	12.1		0.0665	0.403		2
06135	Lead	7439-92-1	6.83		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.465		0.0504	0.101		2
06139	Nickel	7440-02-0	16.8		0.101	0.403		2
06141	Selenium	7782-49-2	0.130	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0494	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.260		0.0302	0.101		2
06148	Vanadium	7440-62-2	35.8		0.0222	0.101		2
06149	Zinc	7440-66-6	64.3		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0299	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.70	J	0.21	1.0		1

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305889
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.49	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	2.6	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 15:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011 21:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 21:17	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 15:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 21:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 21:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 15:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 15:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 21:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 21:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 15:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 15:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 15:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 21:17	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305889
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-8 SDG#: DE171-08DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 10:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 10:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11166621201A	06/25/2011 23:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/08/2011 18:59	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:08	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-9 SDG#: DE171-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	189		16.7	33.4		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-9 SDG#: DE171-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.66	U	0.66	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.66	U	0.66	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.66	U	0.66	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.66	U	0.66	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.33	U	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.66	U	0.66	1.7		1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7		1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.66	U	0.66	1.7		1
10138	Pyrene	129-00-0	0.66	U	0.66	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	79	U	79	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	79	U	79	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1

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Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-9 SDG#: DE171-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	99	U	99	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	790	U	790	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	79	U	79	120	10000000	1
10132	3-Nitrotoluene	99-08-1	99	U	99	120	10000000	1
10132	4-Nitrotoluene	99-99-0	79	U	79	120	10000000	1
10132	PETN	78-11-5	790	U	790	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.1	U	3.1	3.1		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	2.7	U	2.7	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	150	U	150	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,400	J	610	1,500		1

The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.

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SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

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171-9 SDG#: DE171-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.067	U	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	6.0		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	25		0.81	2.4		2

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Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-9 SDG#: DE171-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,300		4.99	19.8		1
07914	Boron	7440-42-8	8.08		0.357	4.96		1
01650	Calcium	7440-70-2	3,040		2.48	19.8		1
01654	Iron	7439-89-6	19,400		4.67	19.8		1
01656	Lithium	7439-93-2	22.7		0.62	2.0		1
01657	Magnesium	7439-95-4	4,030		0.437	9.92		1
06958	Manganese	7439-96-5	340		0.0774	0.496		1
10145	Phosphorus	7723-14-0	375		0.556	9.92		1
01662	Potassium	7440-09-7	3,700		11.2	49.6		1
01667	Sodium	7440-23-5	139		5.90	99.2		1
07968	Strontium	7440-24-6	23.3		0.0615	0.496		1
06969	Tin	7440-31-5	2.56	J	0.992	9.92		1
06970	Titanium	7440-32-6	1,400		0.377	0.992		1
10146	Zirconium	7440-67-7	4.47	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.239		0.0607	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.6		0.0810	0.405		2
06126	Barium	7440-39-3	173		0.109	0.405		2
06127	Beryllium	7440-41-7	0.866		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.341		0.0405	0.101		2
06131	Chromium	7440-47-3	29.1		0.121	0.405		2
06132	Cobalt	7440-48-4	10.5		0.0202	0.101		2
06133	Copper	7440-50-8	18.1		0.0668	0.405		2

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Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-9 SDG#: DE171-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	10.4		0.0105	0.202		2
06138	Molybdenum	7439-98-7	1.02		0.0506	0.101		2
06139	Nickel	7440-02-0	22.1		0.101	0.405		2
06141	Selenium	7782-49-2	0.166	J	0.0405	0.405		2
06142	Silver	7440-22-4	0.0542	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.403		0.0304	0.101		2
06148	Vanadium	7440-62-2	48.4		0.0223	0.101		2
06149	Zinc	7440-66-6	74.5		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0057	J	0.0029	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	14.4		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.81	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.32		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

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171-9 SDG#: DE171-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 17:39	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/21/2011 20:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 22:52	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 17:05	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 19:08	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 10:55	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 21:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 07:50	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 02:03	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 20:52	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 17:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/13/2011 22:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:18	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 22:07	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:28	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 22:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 22:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 22:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 22:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:28	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305890
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

171-9 SDG#: DE171-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 22:07	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 16:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 16:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11166621201A	06/26/2011 00:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11158243202A	06/10/2011 12:03	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:13	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	1,040		167	334		10
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.7 ng/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	2.0		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	46		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	42		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	79		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	15		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	48		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	5.9		0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	72		6.1	18		1
10138	Fluoranthene	206-44-0	68		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	16		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	J	0.68	1.7		1
10138	Naphthalene	91-20-3	1.0	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	10		0.68	1.7		1
10138	Pyrene	129-00-0	56		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	58	U	58	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	38	U	38	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	77	U	77	230	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	77	U	77	230	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	38	U	38	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Dinitrotoluene	121-14-2	38	U	38	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	38	U	38	120	10000000	1
10132	HMX	2691-41-0	96	U	96	290	10000000	1
10132	Nitrobenzene	98-95-3	38	U	38	120	10000000	1
10132	Nitroglycerin	55-63-0	770	U	770	2,300	10000000	1
10132	2-Nitrotoluene	88-72-2	77	U	77	120	10000000	1
10132	3-Nitrotoluene	99-08-1	96	U	96	120	10000000	1
10132	4-Nitrotoluene	99-99-0	77	U	77	120	10000000	1
10132	PETN	78-11-5	770	U	770	2,300	10000000	1
10132	RDX	121-82-4	56	U	56	120	10000000	1
10132	Tetryl	479-45-8	59	U	59	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	38	U	38	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	38	U	38	120	10000000	1

Due to interfering peaks on the chromatogram, the values reported for RDX represent the lowest reporting limits attainable.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	1.0	U	1.0	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	3,500		610	1,500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.5	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.81		0.067	0.35		1
01363	p,p-DDT	50-29-3	3.1		0.34	1.7		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.56	U	0.56	0.56		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.20	U	0.20	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.35		1
01363	Endrin Ketone	53494-70-5	0.093	U	0.093	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.25	U	0.25	0.25		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.								
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.6	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is								

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attributed to the sample matrix and the data is reported.								
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	U	0.82	2.4		2
10199	EFH (C15-C20)	n.a.	4.7		0.82	2.4		2
10199	EFH (C21-C30)	n.a.	15		0.82	2.4		2
10199	EFH (C30 - C40)	n.a.	48		0.82	2.4		2
10199	EFH (C8-C11)	n.a.	0.82	U	0.82	2.4		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	150	J	100	510		1
10501	Methanol	67-56-1	130	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		5.13	20.4		1
07914	Boron	7440-42-8	9.96		0.367	5.10		1
01650	Calcium	7440-70-2	3,180		2.55	20.4		1
01654	Iron	7439-89-6	28,700		13.3	102		5
01656	Lithium	7439-93-2	25.3		0.63	2.0		1
01657	Magnesium	7439-95-4	5,130		0.449	10.2		1
06958	Manganese	7439-96-5	358		0.0795	0.510		1
10145	Phosphorus	7723-14-0	418		0.571	10.2		1
01662	Potassium	7440-09-7	3,340		11.5	51.0		1
01667	Sodium	7440-23-5	91.7	J	6.07	102		1
07968	Strontium	7440-24-6	21.0		0.0632	0.510		1
06969	Tin	7440-31-5	13.5		1.02	10.2		1
06970	Titanium	7440-32-6	1,250		0.387	1.02		1
10146	Zirconium	7440-67-7	4.84	J	0.469	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.253		0.0606	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	19.2		0.0807	0.404		2
06126	Barium	7440-39-3	138		0.109	0.404		2

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Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.796		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.440		0.0404	0.101		2
06131	Chromium	7440-47-3	30.5		0.121	0.404		2
06132	Cobalt	7440-48-4	9.60		0.0202	0.101		2
06133	Copper	7440-50-8	18.3		0.0666	0.404		2
06135	Lead	7439-92-1	21.6		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.933		0.0505	0.101		2
06139	Nickel	7440-02-0	24.1		0.101	0.404		2
06141	Selenium	7782-49-2	0.136	J	0.0404	0.404		2
06142	Silver	7440-22-4	0.138		0.0121	0.101		2
06145	Thallium	7440-28-0	0.369		0.0303	0.101		2
06148	Vanadium	7440-62-2	50.5		0.0222	0.101		2
06149	Zinc	7440-66-6	90.7		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0064	J	0.0028	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 17:57	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011 05:11	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/23/2011 23:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 17:48	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 19:18	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 11:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 22:09	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/25/2011 05:47	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 08:08	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 02:28	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 21:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 17:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 00:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:32	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:22	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 22:10	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/15/2011 22:14	John P Hook	5
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 22:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 22:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:32	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:32	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 22:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 22:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:32	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305891
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17110 SDG#: DE171-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 22:10	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 09:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 09:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 09:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 09:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201A	06/18/2011 17:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201A	06/18/2011 17:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201A	06/19/2011 05:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 12:20	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:14	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201A	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201A	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17111 SDG#: DE171-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	177	U	177	354		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	25	J	18	180		1
04688	Benzo(a)pyrene	50-32-8	41	J	18	180		1
04688	Benzo(b)fluoranthene	205-99-2	81	J	18	180		1
04688	Benzo(g,h,i)perylene	191-24-2	170	J	18	180		1
04688	Benzo(k)fluoranthene	207-08-9	24	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Chrysene	218-01-9	35	J	18	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	43	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	230		18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1

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Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17111 SDG#: DE171-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenanthrene	85-01-8	48	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	40	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.50	J	0.35	1.8		1
10138	Anthracene	120-12-7	2.8		0.35	1.8		1
10138	Butylbenzylphthalate	85-68-7	9.3	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	16	J	6.4	19		1
10138	Dibenz(a,h)anthracene	53-70-3	2.5		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	63		6.4	19		1
10138	Fluorene	86-73-7	0.96	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.7	J	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	2.7		0.71	1.8		1
10138	Naphthalene	91-20-3	3.6		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1

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Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17111 SDG#: DE171-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	150	U	150	150	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1

Due to interfering peaks on the chromatogram, the values reported for RDX represent the lowest reporting limits attainable.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	4.4	U	4.4	4.4		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.28		0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	1,900		640	1,600		1

The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.

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Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17111 SDG#: DE171-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.52		0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.097	J	0.036	0.18		1
01363	Chlordane	57-74-9	4.6		0.85	3.6		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36		1
01363	p,p-DDE	72-55-9	0.47		0.071	0.36		1
01363	p,p-DDT	50-29-3	2.2		0.071	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.89	U	0.89	0.89		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.17	U	0.17	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.58	U	0.58	0.58		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.43	U	0.43	0.43		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	11	U	11	35		10
10225	Aroclor 5442	12642-23-8	11	U	11	35		10
10225	Aroclor 5460	11126-42-4	30	J	11	35		10
10225	PCB-1016	12674-11-2	3.5	U	3.5	18		10
10225	PCB-1221	11104-28-2	3.5	U	3.5	18		10
10225	PCB-1232	11141-16-5	3.5	U	3.5	18		10
10225	PCB-1242	53469-21-9	3.5	U	3.5	18		10
10225	PCB-1248	12672-29-6	3.5	U	3.5	18		10
10225	PCB-1254	11097-69-1	3.5	U	3.5	18		10
10225	PCB-1260	11096-82-5	31		4.2	18		10
10225	PCB-1262	37324-23-5	3.5	U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5	U	3.5	18		10

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10

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Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17111 SDG#: DE171-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C15-C20)	n.a.	7.0	J	4.3	13		10
10199	EFH (C21-C30)	n.a.	40		4.3	13		10
10199	EFH (C30 - C40)	n.a.	140		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		5.32	21.2		1
07914	Boron	7440-42-8	11.9		0.381	5.29		1
01650	Calcium	7440-70-2	5,460		2.64	21.2		1
01654	Iron	7439-89-6	25,300		4.98	21.2		1
01656	Lithium	7439-93-2	30.9		0.66	2.1		1
01657	Magnesium	7439-95-4	5,850		0.465	10.6		1
06958	Manganese	7439-96-5	386		0.0825	0.529		1
10145	Phosphorus	7723-14-0	542		0.592	10.6		1
01662	Potassium	7440-09-7	4,380		12.0	52.9		1
01667	Sodium	7440-23-5	132		6.29	106		1
07968	Strontium	7440-24-6	30.2		0.0656	0.529		1
06969	Tin	7440-31-5	2.98	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,520		0.402	1.06		1
10146	Zirconium	7440-67-7	4.86	J	0.487	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.365		0.0628	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.0		0.0838	0.419		2
06126	Barium	7440-39-3	186		0.113	0.419		2
06127	Beryllium	7440-41-7	0.999		0.0168	0.105		2
06128	Cadmium	7440-43-9	1.04		0.0419	0.105		2

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Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17111 SDG#: DE171-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	38.0		0.126	0.419		2
06132	Cobalt	7440-48-4	11.7		0.0209	0.105		2
06133	Copper	7440-50-8	34.5		0.0691	0.419		2
06135	Lead	7439-92-1	23.8		0.0109	0.209		2
06138	Molybdenum	7439-98-7	1.10		0.0524	0.105		2
06139	Nickel	7440-02-0	30.1		0.105	0.419		2
06141	Selenium	7782-49-2	0.271	J	0.0419	0.419		2
06142	Silver	7440-22-4	1.18		0.0126	0.105		2
06145	Thallium	7440-28-0	0.469		0.0314	0.105		2
06148	Vanadium	7440-62-2	60.3		0.0230	0.105		2
06149	Zinc	7440-66-6	169		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.127		0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.5		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.72	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17111 SDG#: DE171-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/27/2011 18:14	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011 05:38	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011 00:01	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 18:30	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 19:27	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 11:50	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 22:23	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 08:27	Richard A Shober	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 06:37	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 21:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 17:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 14:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:25	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 22:18	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:37	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 22:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 22:18	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 22:18	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 22:18	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:37	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305892
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17111 SDG#: DE171-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 22:18	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 17:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201B	06/18/2011 17:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201B	06/19/2011 06:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 12:32	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:15	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305893
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17112 SDG#: DE171-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305893
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17112 SDG#: DE171-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	J	0.35	1.7		1
10138	Anthracene	120-12-7	1.0	J	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.7		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	7.6		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	15		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	4.6		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	14		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	11	J	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	11		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	180		6.2	19		1
10138	Fluoranthene	206-44-0	13		0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.7		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.73	J	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.97	J	0.69	1.7		1
10138	Naphthalene	91-20-3	1.4	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	5.9		0.69	1.7		1
10138	Pyrene	129-00-0	11		0.69	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	0.99	U	0.99	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	J	0.83	1.8		1
10401	MCPA	94-74-6	79	U	79	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305893
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17112 SDG#: DE171-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	5.3		0.83	3.5		1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.35		1
01363	p,p-DDE	72-55-9	0.90		0.069	0.35		1
01363	p,p-DDT	50-29-3	2.4		0.069	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35		1
01363	Endrin	72-20-8	0.069	U	0.069	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.44	U	0.44	0.44		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.43	U	0.43	0.43		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: heptachlor epoxide.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.2	U	5.2	17		5
10225	Aroclor 5442	12642-23-8	5.2	U	5.2	17		5
10225	Aroclor 5460	11126-42-4	7.4	J	5.2	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.8		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.8		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.8		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.8		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.8		5
10225	PCB-1254	11097-69-1	1.7	U	1.7	8.8		5
10225	PCB-1260	11096-82-5	6.2	J	2.0	8.8		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.8		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.8		5

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305893
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17112 SDG#: DE171-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.03	20.0		1
07914	Boron	7440-42-8	8.72		0.360	5.00		1
01650	Calcium	7440-70-2	2,960		2.50	20.0		1
01654	Iron	7439-89-6	20,600		4.71	20.0		1
01656	Lithium	7439-93-2	18.3		0.62	2.0		1
01657	Magnesium	7439-95-4	3,710		0.440	10.0		1
06958	Manganese	7439-96-5	282		0.0780	0.500		1
10145	Phosphorus	7723-14-0	409		0.560	10.0		1
01662	Potassium	7440-09-7	3,170		11.3	50.0		1
01667	Sodium	7440-23-5	75.9	J	5.95	100		1
07968	Strontium	7440-24-6	19.7		0.0620	0.500		1
06969	Tin	7440-31-5	2.67	J	1.00	10.0		1
06970	Titanium	7440-32-6	1,210		0.380	1.00		1
10146	Zirconium	7440-67-7	3.68	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.239		0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.99		0.0832	0.416		2
06126	Barium	7440-39-3	137		0.112	0.416		2
06127	Beryllium	7440-41-7	0.706		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.576		0.0416	0.104		2
06131	Chromium	7440-47-3	30.1		0.125	0.416		2
06132	Cobalt	7440-48-4	9.72		0.0208	0.104		2
06133	Copper	7440-50-8	23.6		0.0686	0.416		2
06135	Lead	7439-92-1	17.4		0.0108	0.208		2
06138	Molybdenum	7439-98-7	1.27		0.0520	0.104		2
06139	Nickel	7440-02-0	22.2		0.104	0.416		2
06141	Selenium	7782-49-2	0.167	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.385		0.0125	0.104		2
06145	Thallium	7440-28-0	0.325		0.0312	0.104		2
06148	Vanadium	7440-62-2	46.5		0.0229	0.104		2
06149	Zinc	7440-66-6	92.0		0.582	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305893
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17112 SDG#: DE171-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.92	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011 06:04	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011 00:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 12:18	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011 23:06	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 08:45	Richard A Shober	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:36	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 22:29	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:41	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 22:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 22:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 22:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 22:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:41	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305893
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17112 SDG#: DE171-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:41	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 22:29	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 18:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201B	06/19/2011 07:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 12:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402A	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305894
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17113 SDG#: DE171-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305894
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17113 SDG#: DE171-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.48	J	0.35	1.7		1
10138	Anthracene	120-12-7	1.8		0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	6.1		0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	9.0		0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	20		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	4.3		0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	31		0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	25		6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	15		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	2.2		0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	700		130	380		20
10138	Fluoranthene	206-44-0	15		0.70	1.7		1
10138	Fluorene	86-73-7	1.9		0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.2		0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	1.1	J	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.70	1.7		1
10138	Naphthalene	91-20-3	2.0		0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	13	J	6.3	19		1
10138	Phenanthrene	85-01-8	7.0		0.70	1.7		1
10138	Pyrene	129-00-0	12		0.70	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	3.2	U	3.2	8.9		5
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	160	U	160	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305894
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17113 SDG#: DE171-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	2.1		0.32	0.87		5
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	4.9		0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.82		0.069	0.36		1
01363	p,p-DDT	50-29-3	4.0		0.35	1.8		5
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.63	U	0.63	0.63		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.91		0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.17	J	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.70	U	0.70	0.70		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: dieldrin and mirex.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		5.28	21.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305894
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17113 SDG#: DE171-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.378	U	0.378	5.25		1
01650	Calcium	7440-70-2	4,620		2.63	21.0		1
01654	Iron	7439-89-6	25,900		4.95	21.0		1
01656	Lithium	7439-93-2	29.1		0.65	2.1		1
01657	Magnesium	7439-95-4	5,590		0.462	10.5		1
06958	Manganese	7439-96-5	412		0.0819	0.525		1
10145	Phosphorus	7723-14-0	502		0.588	10.5		1
01662	Potassium	7440-09-7	4,960		11.9	52.5		1
01667	Sodium	7440-23-5	119		6.25	105		1
07968	Strontium	7440-24-6	29.6		0.0651	0.525		1
06969	Tin	7440-31-5	2.90	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,540		0.399	1.05		1
10146	Zirconium	7440-67-7	6.72		0.483	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.284		0.0624	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.19		0.0832	0.416		2
06126	Barium	7440-39-3	128		0.112	0.416		2
06127	Beryllium	7440-41-7	0.655		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.593		0.0416	0.104		2
06131	Chromium	7440-47-3	26.4		0.125	0.416		2
06132	Cobalt	7440-48-4	8.27		0.0208	0.104		2
06133	Copper	7440-50-8	19.0		0.0686	0.416		2
06135	Lead	7439-92-1	14.2		0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.931		0.0520	0.104		2
06139	Nickel	7440-02-0	19.3		0.104	0.416		2
06141	Selenium	7782-49-2	0.172	J	0.0416	0.416		2
06142	Silver	7440-22-4	0.186		0.0125	0.104		2
06145	Thallium	7440-28-0	0.310		0.0312	0.104		2
06148	Vanadium	7440-62-2	42.6		0.0229	0.104		2
06149	Zinc	7440-66-6	97.2		0.582	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0822	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.21	1.1		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305894
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17113 SDG#: DE171-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.92	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	4.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011	06:31	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011	01:10	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011	08:07	Joseph M Gambler	20
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011	07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011	12:45	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/14/2011	17:58	Michele D Hamilton	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011	23:34	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/21/2011	23:48	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011	09:04	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011	15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011	16:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011	23:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011	23:22	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011	16:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011	23:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011	23:22	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305894
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17113 SDG#: DE171-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 23:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 23:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 23:22	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 18:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11166621201B	06/27/2011 15:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 12:55	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305895
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17114 SDG#: DE171-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305895
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17114 SDG#: DE171-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.37	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	9.4		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	6.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.1	18		1
10138	Fluoranthene	206-44-0	4.8		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.71	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.5		0.68	1.7		1
10138	Pyrene	129-00-0	3.6		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	5.4	U	5.4	5.4		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8		1
10401	MCPA	94-74-6	360	U	360	360		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.18		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305895
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17114 SDG#: DE171-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	3.1	J	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.44		0.068	0.35		1
01363	p,p-DDT	50-29-3	0.81		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.16	J	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.27	J	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.21	20.7		1
07914	Boron	7440-42-8	0.373	U	0.373	5.18		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305895
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17114 SDG#: DE171-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,370		2.59	20.7		1
01654	Iron	7439-89-6	23,100		4.88	20.7		1
01656	Lithium	7439-93-2	24.1		0.64	2.1		1
01657	Magnesium	7439-95-4	4,600		0.455	10.4		1
06958	Manganese	7439-96-5	420		0.0807	0.518		1
10145	Phosphorus	7723-14-0	375		0.580	10.4		1
01662	Potassium	7440-09-7	4,560		11.7	51.8		1
01667	Sodium	7440-23-5	88.5	J	6.16	104		1
07968	Strontium	7440-24-6	27.0		0.0642	0.518		1
06969	Tin	7440-31-5	2.72	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,520		0.393	1.04		1
10146	Zirconium	7440-67-7	5.33		0.476	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.249		0.0609	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.95		0.0812	0.406		2
06126	Barium	7440-39-3	162		0.110	0.406		2
06127	Beryllium	7440-41-7	0.830		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.307		0.0406	0.101		2
06131	Chromium	7440-47-3	27.9		0.122	0.406		2
06132	Cobalt	7440-48-4	9.47		0.0203	0.101		2
06133	Copper	7440-50-8	18.7		0.0670	0.406		2
06135	Lead	7439-92-1	10.7		0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.952		0.0507	0.101		2
06139	Nickel	7440-02-0	21.5		0.101	0.406		2
06141	Selenium	7782-49-2	0.205	J	0.0406	0.406		2
06142	Silver	7440-22-4	0.211		0.0122	0.101		2
06145	Thallium	7440-28-0	0.394		0.0304	0.101		2
06148	Vanadium	7440-62-2	48.5		0.0223	0.101		2
06149	Zinc	7440-66-6	74.4		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0034	J	0.0028	0.0984		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.21	1.0		1

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Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305895
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
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17114 SDG#: DE171-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011 06:57	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011 01:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 13:13	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 13:34	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/22/2011 00:02	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 09:22	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 16:57	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011 23:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 23:26	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 16:57	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 23:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 23:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 16:57	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 16:57	Eric L Eby	1

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SL-144-SA5DN-SS-0.0-0.5

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17114 SDG#: DE171-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 23:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 23:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 16:57	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 16:57	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 16:57	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 23:26	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:48	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 18:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201B	06/19/2011 08:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 13:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Analysis Report

Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17115 SDG#: DE171-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	170	U	170	340		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17115 SDG#: DE171-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.96	J	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.4		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	6.2		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	5.8		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.2	19		1
10138	Fluoranthene	206-44-0	2.9		0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	1.4	J	0.69	1.7		1
10138	Pyrene	129-00-0	2.9		0.69	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1

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Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17115 SDG#: DE171-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	170	U	170	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,700		620	1,500		1

The surrogate recovery associated with the LCS is outside the QC limits (64-126) at 63%. Since the recovery for Formaldehyde was within the QC limits, there would be no adverse effect on the data.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

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17115 SDG#: DE171-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	4.3		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	2.5		0.068	0.35		1
01363	p,p-DDT	50-29-3	5.8		0.34	1.7		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.47		0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.17	J	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.87	U	0.87	0.87		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.16	J	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported heptachlore epoxide represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.1		5

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17115 SDG#: DE171-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C21-C30)	n.a.	9.5		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	53		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,200		5.12	20.4		1
07914	Boron	7440-42-8	0.366	U	0.366	5.09		1
01650	Calcium	7440-70-2	3,640		2.54	20.4		1
01654	Iron	7439-89-6	22,500		4.79	20.4		1
01656	Lithium	7439-93-2	30.9		0.63	2.0		1
01657	Magnesium	7439-95-4	5,260		0.448	10.2		1
06958	Manganese	7439-96-5	314		0.0794	0.509		1
10145	Phosphorus	7723-14-0	485		0.570	10.2		1
01662	Potassium	7440-09-7	2,800		11.5	50.9		1
01667	Sodium	7440-23-5	110		6.05	102		1
07968	Strontium	7440-24-6	19.6		0.0631	0.509		1
06969	Tin	7440-31-5	2.71	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,390		0.387	1.02		1
10146	Zirconium	7440-67-7	5.18		0.468	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.231		0.0593	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	32.0		0.0791	0.395		2
06126	Barium	7440-39-3	140		0.107	0.395		2
06127	Beryllium	7440-41-7	0.744		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.297		0.0395	0.0988		2
06131	Chromium	7440-47-3	27.6		0.119	0.395		2

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17115 SDG#: DE171-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	9.31		0.0198	0.0988		2
06133	Copper	7440-50-8	14.7		0.0652	0.395		2
06135	Lead	7439-92-1	9.65		0.0103	0.198		2
06138	Molybdenum	7439-98-7	0.740		0.0494	0.0988		2
06139	Nickel	7440-02-0	22.5		0.0988	0.395		2
06141	Selenium	7782-49-2	0.176	J	0.0395	0.395		2
06142	Silver	7440-22-4	0.0402	J	0.0119	0.0988		2
06145	Thallium	7440-28-0	0.391		0.0296	0.0988		2
06148	Vanadium	7440-62-2	47.5		0.0217	0.0988		2
06149	Zinc	7440-66-6	83.7		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0028	0.0994		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.58	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.48		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.53		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17115 SDG#: DE171-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11158SLH026	06/29/2011 14:36	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011 07:24	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011 02:12	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11158SLH026	06/08/2011 09:45	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 19:13	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 19:37	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 13:40	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/22/2011 00:45	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/25/2011 06:01	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 09:41	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580029A	06/12/2011 05:47	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 21:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 18:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590036A	06/14/2011 11:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580029A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590036A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 17:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/15/2011 23:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 23:30	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 17:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 23:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 23:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 17:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 17:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 23:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 23:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 17:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 17:01	Eric L Eby	1

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Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305896
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17115 SDG#: DE171-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 17:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 23:30	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 18:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621201B	06/18/2011 18:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201B	06/19/2011 08:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 13:18	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11158102201B	06/08/2011 10:16	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11158102201B	06/07/2011 16:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305897
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17116 SDG#: DE171-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	93	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305897
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17116 SDG#: DE171-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	4.4	J	3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	10		3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	8.0	J	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	4.2	J	3.4	8.6		5
10138	Butylbenzylphthalate	85-68-7	31	U	31	93		5
10138	Di-n-butylphthalate	84-74-2	31	U	31	93		5
10138	Chrysene	218-01-9	15		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Diethylphthalate	84-66-2	31	U	31	93		5
10138	Dimethylphthalate	131-11-3	31	U	31	93		5
10138	Fluoranthene	206-44-0	7.5	J	3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	J	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Di-n-octylphthalate	117-84-0	31	U	31	93		5
10138	Phenanthrene	85-01-8	3.7	J	3.4	8.6		5
10138	Pyrene	129-00-0	6.5	J	3.4	8.6		5

Reporting limits were raised due to interference from the sample matrix.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.080	J	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305897
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17116 SDG#: DE171-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.9	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.82		0.068	0.35		1
01363	p,p-DDT	50-29-3	0.58		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.10	J	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.074	J	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.15	J	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for heptachlor represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,400		5.17	20.6		1
07914	Boron	7440-42-8	8.50		0.370	5.14		1
01650	Calcium	7440-70-2	3,150		2.57	20.6		1
01654	Iron	7439-89-6	18,700		4.85	20.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305897
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17116 SDG#: DE171-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	19.9		0.64	2.1		1
01657	Magnesium	7439-95-4	3,980		0.453	10.3		1
06958	Manganese	7439-96-5	360		0.0802	0.514		1
10145	Phosphorus	7723-14-0	379		0.576	10.3		1
01662	Potassium	7440-09-7	3,980		11.6	51.4		1
01667	Sodium	7440-23-5	81.0	J	6.12	103		1
07968	Strontium	7440-24-6	23.3		0.0638	0.514		1
06969	Tin	7440-31-5	2.57	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,340		0.391	1.03		1
10146	Zirconium	7440-67-7	4.16	J	0.473	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.248		0.0605	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0807	0.403		2
06126	Barium	7440-39-3	149		0.109	0.403		2
06127	Beryllium	7440-41-7	0.733		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.426		0.0403	0.101		2
06131	Chromium	7440-47-3	27.2		0.121	0.403		2
06132	Cobalt	7440-48-4	8.84		0.0202	0.101		2
06133	Copper	7440-50-8	17.4		0.0666	0.403		2
06135	Lead	7439-92-1	11.3		0.0105	0.202		2
06138	Molybdenum	7439-98-7	0.981		0.0504	0.101		2
06139	Nickel	7440-02-0	20.0		0.101	0.403		2
06141	Selenium	7782-49-2	0.165	J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0583	J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.369		0.0303	0.101		2
06148	Vanadium	7440-62-2	48.7		0.0222	0.101		2
06149	Zinc	7440-66-6	76.1		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.94	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.05		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305897
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17116 SDG#: DE171-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	2.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011 07:50	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011 08:38	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 14:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/22/2011 00:58	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 09:59	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 17:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:39	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 22:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011 17:05	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 22:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 22:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 17:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 17:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 22:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 22:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 17:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 17:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 17:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 22:49	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:22	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305897
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17116 SDG#: DE171-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 18:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11166621201B	06/27/2011 16:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 13:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305898
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17117 SDG#: DE171-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	18	350		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-149-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305898
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17117 SDG#: DE171-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.0	J	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.93	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	3.6	U	3.6	3.6		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-149-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305898
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:25

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17117 SDG#: DE171-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.75		0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86	U	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.12	J	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.24	U	0.24	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: mirex.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	3.4	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.7	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is

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SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305898
LLI Group # 1249810
Account # 13013

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17117 SDG#: DE171-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
attributed to the sample matrix and the data is reported.								
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		5.37	21.3		1
07914	Boron	7440-42-8	11.8		0.384	5.33		1
01650	Calcium	7440-70-2	4,240		2.67	21.3		1
01654	Iron	7439-89-6	24,500		5.03	21.3		1
01656	Lithium	7439-93-2	20.7		0.66	2.1		1
01657	Magnesium	7439-95-4	5,330		0.469	10.7		1
06958	Manganese	7439-96-5	447		0.0832	0.533		1
10145	Phosphorus	7723-14-0	390		0.597	10.7		1
01662	Potassium	7440-09-7	5,770		12.1	53.3		1
01667	Sodium	7440-23-5	75.9	J	6.35	107		1
07968	Strontium	7440-24-6	29.7		0.0661	0.533		1
06969	Tin	7440-31-5	2.96	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,520		0.405	1.07		1
10146	Zirconium	7440-67-7	5.49		0.491	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.331		0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.13		0.0862	0.431		2
06126	Barium	7440-39-3	191		0.116	0.431		2
06127	Beryllium	7440-41-7	0.940		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.604		0.0431	0.108		2
06131	Chromium	7440-47-3	37.8		0.129	0.431		2
06132	Cobalt	7440-48-4	13.3		0.0216	0.108		2
06133	Copper	7440-50-8	23.6		0.0711	0.431		2
06135	Lead	7439-92-1	17.2		0.0112	0.216		2
06138	Molybdenum	7439-98-7	1.14		0.0539	0.108		2
06139	Nickel	7440-02-0	28.0		0.108	0.431		2
06141	Selenium	7782-49-2	0.222	J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0431	J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.492		0.0323	0.108		2
06148	Vanadium	7440-62-2	67.8		0.0237	0.108		2
06149	Zinc	7440-66-6	98.0		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305898
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17117 SDG#: DE171-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	7.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011	08:17	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011	09:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011	07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011	14:35	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011	13:40	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/22/2011	01:12	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011	10:18	Richard A Shober	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011	15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011	02:00	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011	09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011	17:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011	10:43	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011	22:53	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/14/2011	17:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011	22:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011	22:53	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011	17:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011	17:20	Eric L Eby	1

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SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305898
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17117 SDG#: DE171-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 22:53	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 22:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 17:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 17:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 17:20	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 22:53	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 19:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201B	06/19/2011 09:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 13:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305899
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

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17118 SDG#: DE171-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	59	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305899
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17118 SDG#: DE171-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	1.0	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	4.1		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	9.6		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.6		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	9.1	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	310		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	3.1		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	7.9		0.71	1.8		1
10138	Fluorene	86-73-7	1.5	J	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.3	J	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.8		0.71	1.8		1
10138	Naphthalene	91-20-3	2.5		0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	7.1		0.71	1.8		1
10138	Pyrene	129-00-0	16		0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	3.1	U	3.1	3.1		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.12	J	0.080	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305899
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17118 SDG#: DE171-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	2.1	J	0.86	3.6		1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.36		1
01363	p,p-DDE	72-55-9	0.88		0.071	0.36		1
01363	p,p-DDT	50-29-3	0.93		0.071	0.36		1
01363	Delta BHC	319-86-8	0.057	J	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.36		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.16	J	0.071	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36		1
01363	Endrin	72-20-8	0.071	U	0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.20	J	0.071	0.36		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.13	J	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8		1
01363	Mirex	2385-85-5	0.15	J	0.071	0.36		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram, the values reported for p,p-DDD represent the lowest reporting limits attainable.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,900		5.33	21.2		1
07914	Boron	7440-42-8	13.0		0.382	5.30		1
01650	Calcium	7440-70-2	6,500		2.65	21.2		1
01654	Iron	7439-89-6	33,700		13.8	106		5

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Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305899
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17118 SDG#: DE171-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.0		0.66	2.1		1
01657	Magnesium	7439-95-4	5,130		0.466	10.6		1
06958	Manganese	7439-96-5	482		0.0827	0.530		1
10145	Phosphorus	7723-14-0	502		0.594	10.6		1
01662	Potassium	7440-09-7	5,050		12.0	53.0		1
01667	Sodium	7440-23-5	86.5	J	6.31	106		1
07968	Strontium	7440-24-6	38.3		0.0657	0.530		1
06969	Tin	7440-31-5	3.18	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,520		0.403	1.06		1
10146	Zirconium	7440-67-7	5.62		0.488	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.516		0.0636	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0848	0.424		2
06126	Barium	7440-39-3	179		0.114	0.424		2
06127	Beryllium	7440-41-7	0.845		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.503		0.0424	0.106		2
06131	Chromium	7440-47-3	34.6		0.127	0.424		2
06132	Cobalt	7440-48-4	11.7		0.0212	0.106		2
06133	Copper	7440-50-8	28.3		0.0700	0.424		2
06135	Lead	7439-92-1	18.0		0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.33		0.0530	0.106		2
06139	Nickel	7440-02-0	26.3		0.106	0.424		2
06141	Selenium	7782-49-2	0.281	J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0762	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.427		0.0318	0.106		2
06148	Vanadium	7440-62-2	59.3		0.0233	0.106		2
06149	Zinc	7440-66-6	101		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0050	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.56		0.0100	0.0100		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305899
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

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17118 SDG#: DE171-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	6.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011	08:43	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011	09:46	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011	07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011	07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011	15:58	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/22/2011	01:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011	10:37	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011	15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011	16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011	17:25	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011	10:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011	22:57	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/15/2011	23:01	John P Hook	5
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011	22:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011	22:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011	17:25	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011	17:25	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011	22:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011	22:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011	17:25	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011	17:25	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011	17:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011	22:57	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011	10:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011	10:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011	10:28	Choon Y Tian	2

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Analysis Report

Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305899
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17118 SDG#: DE171-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 19:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201B	06/19/2011 10:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 13:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305900
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17119 SDG#: DE171-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305900
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17119 SDG#: DE171-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.94	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	6.0		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.7		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	6.5		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	8.5		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	15		0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.0		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.78	J	0.69	1.7		1
10138	Naphthalene	91-20-3	1.4	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	7.4		0.69	1.7		1
10138	Pyrene	129-00-0	12		0.69	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	5.5	U	5.5	5.5		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	160	U	160	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**

*=This limit was used in the evaluation of the final result
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Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305900
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17119 SDG#: DE171-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35		1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35		1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35		1
01363	Endrin	72-20-8	0.069	U	0.069	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,000		5.12	20.4		1
07914	Boron	7440-42-8	11.9		0.367	5.09		1
01650	Calcium	7440-70-2	4,350		2.55	20.4		1
01654	Iron	7439-89-6	36,600		13.3	102		5
01656	Lithium	7439-93-2	39.0		0.63	2.0		1
01657	Magnesium	7439-95-4	6,930		0.448	10.2		1

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Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305900
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17119 SDG#: DE171-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	454		0.0794	0.509		1
10145	Phosphorus	7723-14-0	923		0.570	10.2		1
01662	Potassium	7440-09-7	5,210		11.5	50.9		1
01667	Sodium	7440-23-5	106		6.06	102		1
07968	Strontium	7440-24-6	25.4		0.0631	0.509		1
06969	Tin	7440-31-5	3.31	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,660		0.387	1.02		1
10146	Zirconium	7440-67-7	5.92		0.468	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0611	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.17		0.0814	0.407		2
06126	Barium	7440-39-3	138		0.110	0.407		2
06127	Beryllium	7440-41-7	0.953		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.176		0.0407	0.102		2
06131	Chromium	7440-47-3	27.5		0.122	0.407		2
06132	Cobalt	7440-48-4	9.56		0.0204	0.102		2
06133	Copper	7440-50-8	19.4		0.0672	0.407		2
06135	Lead	7439-92-1	13.1		0.0106	0.204		2
06138	Molybdenum	7439-98-7	1.15		0.0509	0.102		2
06139	Nickel	7440-02-0	22.1		0.102	0.407		2
06141	Selenium	7782-49-2	0.233	J	0.0407	0.407		2
06142	Silver	7440-22-4	0.0497	J	0.0122	0.102		2
06145	Thallium	7440-28-0	0.382		0.0305	0.102		2
06148	Vanadium	7440-62-2	50.2		0.0224	0.102		2
06149	Zinc	7440-66-6	95.5		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0051	J	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.69		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305900
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17119 SDG#: DE171-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11159SLE026	06/22/2011 09:10	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11158SLD026	06/24/2011 10:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11158SLD026	06/08/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11159SLE026	06/09/2011 07:00	Joseph S Feister	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111600016A	06/11/2011 16:26	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111640013A	06/22/2011 02:08	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111590013A	06/14/2011 10:55	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111640013A	06/13/2011 15:40	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111590013A	06/08/2011 16:40	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111600016A	06/10/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111615708001	06/14/2011 17:29	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111615708001	06/16/2011 10:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111615708001	06/15/2011 23:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111615708001	06/15/2011 23:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	111615708001	06/15/2011 23:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111615708001	06/15/2011 23:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111615708001	06/14/2011 17:29	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111615708001	06/14/2011 17:29	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111615708001	06/15/2011 23:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	111615708001	06/15/2011 23:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	111615708001	06/14/2011 17:29	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111615708001	06/14/2011 17:29	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111615708001	06/14/2011 17:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111615708001	06/15/2011 23:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111611026001D	06/13/2011 10:31	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305900
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17119 SDG#: DE171-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111611026001C	06/13/2011 10:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111611026001B	06/13/2011 10:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111611026001A	06/13/2011 10:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111615711001	06/13/2011 20:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111615708001	06/12/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111611026001	06/12/2011 21:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111615711001	06/10/2011 09:17	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621201B	06/18/2011 20:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621201B	06/19/2011 10:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11158243202A	06/10/2011 14:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621201B	06/17/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621201B	06/15/2011 07:45	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11158243202A	06/07/2011 20:50	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	4.51		1.06	2.13		1
	N-Nitrosodimethylamine is detected in the method blank at an estimated concentration of 1.84 ng/l. The blank value was not subtracted from the analytical result.							
	The analysis was repeated outside of the required hold time and N-Nitrosodimethylamine was again detected in the blank and sample. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	62		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1

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Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.082	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.052	U	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.22	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.029	J	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.029	J	0.010	0.052		1
10137	Naphthalene	91-20-3	0.17		0.031	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1

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Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.16	U	0.16	0.51		1
10407	Dalapon	75-99-0	0.26	U	0.26	1.3		1
10407	2,4-DB	94-82-6	0.31	U	0.31	1.0		1
10407	Dicamba	1918-00-9	0.082	U	0.082	0.31		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.51		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.51		1
10407	MCPA	94-74-6	310	U	310	1,000		1
10407	MCPP	93-65-2	51	U	51	210		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.051		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.051		1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1

The surrogate data for the LCS and LCSD is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction, therefore all results are reported from the original extract. Similar results were obtained in both extracts.

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Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52		1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0052	U	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055	U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0044	U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060	U	0.0060	0.021		1
00177	Endrin	72-20-8	0.0084	U	0.0084	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052	U	0.0052	0.021		1
00177	Heptachlor	76-44-8	0.0099	J	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10		1
00177	Mirex	2385-85-5	0.087	U	0.087	0.26		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.52		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.63		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	100		1
08278	Ethylene glycol	107-21-1	20	U	20	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
	Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.							
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.086	U	0.086	0.27		1
10319	o-Terphenyl	84-15-1	0.086	U	0.086	0.27		1
10319	p-Terphenyl	92-94-4	0.086	U	0.086	0.27		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038	U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206	U	0.0206	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030	U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000074	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000093	J	0.000046	0.00020		1

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Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.5		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11159WAB026	06/21/2011 22:48	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11155WAA026	06/11/2011 12:45	Mark A Clark	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11157WAE026	06/22/2011 04:51	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11155WAA026	06/04/2011 11:00	Olivia I Santiago	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11157WAE026	06/06/2011 16:15	Timothy J Attenberger	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11159WAB026	06/08/2011 13:25	Wanda F Oswald	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111580002A	06/09/2011 01:30	Michele D Hamilton	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111530028A	06/04/2011 06:08	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111590018A	06/10/2011 02:53	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111570020A	06/13/2011 21:12	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111570021A	06/08/2011 06:18	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111570021A	06/07/2011 03:30	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111570020A	06/07/2011 03:30	Sherry L Morrow	1

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Sample Description: **EB12-SA5DN-SS-060211 Water**
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111590018A	06/08/2011 21:15	Karen L Beyer	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111530028A	06/03/2011 12:00	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111580002A	06/07/2011 18:00	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580017A	06/08/2011 17:29	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111580039A	06/08/2011 05:46	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111600001A	06/09/2011 14:22	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111570007A	06/09/2011 02:04	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111580017A	06/07/2011 18:00	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111570007A	06/07/2011 09:10	Cynthia J Salvatori	1
01743	Aluminum	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111601848003	06/12/2011 07:18	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111601848003	06/10/2011 13:01	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111606050001D	06/14/2011 13:05	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111606050001C	06/14/2011 13:05	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111606050001B	06/14/2011 13:05	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111606050001A	06/14/2011 13:05	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111605713002	06/11/2011 10:05	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111601848003	06/09/2011 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111606050001	06/09/2011 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111605713002	06/09/2011 15:25	Nelli S Markaryan	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB12-SA5DN-SS-060211 Water**
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305901
LLI Group # 1249810
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 07/07/2011 13:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17120 SDG#: DE171-20EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11154196902B	06/04/2011 06:57	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11154196902B	06/04/2011 06:57	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11165621702A	06/15/2011 18:48	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11154281401A	06/03/2011 12:13	Elyse P Brunstetter	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11158117101B	06/08/2011 08:55	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11158117101B	06/07/2011 09:40	Nancy J Shoop	1
00200	18b pH by 9040B	SW-846 9040B	1	11154020002A	06/03/2011 21:50	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11155WAA026	Sample number(s): 6305901								
Aniline	1 U	1.	5	ug/l	57	56	49-101	3	30
Benzidine	20 U	20.	60	ug/l	42	39	34-117	8	30
Benzoic acid	6 U	6.	15	ug/l	46	41	10-69	13	30
Benzyl alcohol	5 U	5.	15	ug/l	85	84	66-97	1	30
4-Bromophenyl-phenylether	1 U	1.	5	ug/l	94	95	82-117	1	30
Carbazole	1 U	1.	5	ug/l	96	97	81-114	1	30
4-Chloro-3-methylphenol	1 U	1.	5	ug/l	89	89	70-123	0	30
4-Chloroaniline	1 U	1.	5	ug/l	51	47	42-124	8	30
bis(2-Chloroethoxy)methane	1 U	1.	5	ug/l	92	94	74-124	2	30
bis(2-Chloroethyl)ether	1 U	1.	5	ug/l	94	94	77-108	0	30
bis(2-Chloroisopropyl)ether	1 U	1.	5	ug/l	95	95	62-127	1	30
2-Chloronaphthalene	2 U	2.	5	ug/l	84	69	54-132	20	30
2-Chlorophenol	1 U	1.	5	ug/l	92	94	77-108	3	30
4-Chlorophenyl-phenylether	2 U	2.	5	ug/l	96	95	82-111	1	30
Dibenzofuran	1 U	1.	5	ug/l	98	98	83-108	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	87	87	55-118	0	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	89	89	50-119	0	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	88	88	53-119	0	30
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	53	55	49-111	3	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	94	95	80-109	1	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	86	89	72-110	3	30
3,5-Dimethylphenol	3 U	3.	10	ug/l	98	98	70-130	0	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	93	96	78-119	3	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	84	85	52-131	2	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	98	98	81-115	0	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	96	98	85-115	2	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	101	103	78-116	2	30
Hexachlorobenzene	1 U	1.	5	ug/l	99	102	81-118	3	30
Hexachlorobutadiene	1 U	1.	5	ug/l	85	85	57-124	0	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	82	82	36-118	0	30
Hexachloroethane	1 U	1.	5	ug/l	84	85	52-113	1	30
Isophorone	1 U	1.	5	ug/l	95	97	74-117	2	30
2-Methylphenol	1 U	1.	5	ug/l	82	83	64-101	1	30
4-Methylphenol	2 U	2.	5	ug/l	79	80	61-103	1	30
2-Nitroaniline	1 U	1.	5	ug/l	100	102	83-116	2	30
3-Nitroaniline	1 U	1.	5	ug/l	84	82	74-113	3	30
4-Nitroaniline	1 U	1.	5	ug/l	64	60	59-100	7	30
Nitrobenzene	1 U	1.	5	ug/l	98	96	75-109	2	30
2-Nitrophenol	1 U	1.	5	ug/l	99	102	86-120	3	30
4-Nitrophenol	10 U	10.	30	ug/l	45	43	16-78	4	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	89	91	69-110	3	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	95	96	67-136	1	30
Pentachlorophenol	3 U	3.	15	ug/l	87	86	53-110	0	30
Phenol	1 U	1.	5	ug/l	48	49	21-67	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	91	90	71-112	1	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	100	98	79-107	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	104	81-113	2	30
Batch number: 11157WAE026	Sample number(s): 6305901									
Acenaphthene	0.010	U	0.010	0.050	ug/l	92	82	74-109	11	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	89	70-110	9	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	91	66-111	8	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	99	92	72-114	7	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	88	60-127	8	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	97	84	69-123	14	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	86	93	57-131	8	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	104	92	59-130	12	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	94	85	40-138	10	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	95	77	74-131	21	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	94	76-116	7	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	89	95	55-134	6	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	91	79	57-134	14	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	89	80	40-119	11	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	91	88	57-154	3	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	85	75-116	16	30
Fluorene	0.010	U	0.010	0.050	ug/l	100	90	75-114	10	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	90	94	69-124	5	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	88	71-117	11	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	81	75-115	12	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	87	72-109	8	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	65	56	36-89	15	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	96	148*	57-145	43*	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	99	91	76-111	9	30
Pyrene	0.010	U	0.010	0.050	ug/l	96	99	69-118	3	30
Batch number: 11158SLD026	Sample number(s): 6305879-6305888,6305890-6305900									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	79		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	101		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	90		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	100		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	77		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	87		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 11158SLH026	Sample number(s): 6305880-6305888,6305890-6305892,6305896									
N-Nitrosodimethylamine	18.7	J	16.7	33.3	ng/kg	92		70-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11159SLE026	Sample number(s): 6305879-6305888,6305890-6305900									
Acenaphthene	17	U	17.	170	ug/kg	85		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	87		75-122		
Aniline	170 U		170.	500	ug/kg	115*		34-94		
Anthracene	17	U	17.	170	ug/kg	89		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	105		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	91		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	112		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	111		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	109		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	81		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	91		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	91		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	91		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	142*		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	87		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	88		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	89		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	87		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	91		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	113		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	130*		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	89		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	89		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	86		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	87		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	84		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	89		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	88		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	87		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Fluoranthene	17	U	17.	170	ug/kg	89		78-116		
Fluorene	17	U	17.	170	ug/kg	90		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	79		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	80		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		68-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	113		64-119		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	89		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
Naphthalene	17	U	17.	170	ug/kg	86		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	89		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	102		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	90		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	88		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	88		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	83		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	76		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	78		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	90		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	102		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	81		51-117		
Phenanthrene	17	U	17.	170	ug/kg	88		77-113		
Phenol	17	U	17.	170	ug/kg	94		58-112		
Pyrene	17	U	17.	170	ug/kg	88		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	84		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	87		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	88		78-111		
Batch number: 11159WAB026	Sample number(s): 6305901									
N-Nitrosodimethylamine	1.84		0.500	1.00	ng/l	92	91	70-130	1	30
Batch number: 111580002A	Sample number(s): 6305901									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	100	100	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	97	96	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	100	99	72-141	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	99	96	53-129	3	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 111670008A	Sample number(s): 6305880-6305888,6305890-6305892,6305896									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	122*		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	125*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	105	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	105	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	128		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	121		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	123*		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
HMX	100 U		100.	300	ug/kg	108		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	127*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	92		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	118		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	125		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	116		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	109		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	118		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	128*		80-120		
Batch number: 111530028A	Sample number(s): 6305901									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	92	90	69-130	2	30
Batch number: 111590006A	Sample number(s): 6305880-6305888,6305890-6305892,6305896									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 111590018A	Sample number(s): 6305901									
2,4-D	0.16	U	0.16	0.50	ug/l	108	104	73-157	4	30
Dalapon	0.25	U	0.25	1.3	ug/l	60	79	40-100	27	30
2,4-DB	0.30	U	0.30	1.0	ug/l	96	92	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	92	92	68-135	0	30
Dinoseb	0.10	U	0.10	0.50	ug/l	67	65	32-91	4	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	116	76-170	7	30
MCPA	300 U		300.	1,000	ug/l	88	82	65-128	7	30
MCPP	50	U	50.	200	ug/l	92	88	67-137	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	100	96	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104	96	63-134	8	30
Batch number: 111600016A	Sample number(s): 6305879-6305888,6305890-6305900									
2,4-D	1.2	U	1.2	3.6	ug/kg	98		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	58		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	101		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	92		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	6*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	117		62-170		
MCPA	76	U	76.	250	ug/kg	76		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	90		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	98		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		68-114		
Batch number: 111590022A	Sample number(s): 6305880,6305895,6305898									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 111570020A	Sample number(s): 6305901									
Aldrin	0.0020	U	0.0020	0.010	ug/l	98	97	54-159	1	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	120	130	59-146	8	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	120	120	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	125	125	71-139	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	142*	142*	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	110	110	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	125	130	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	130*	130*	68-128	0	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	110	110	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	120	115	52-132	4	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	110	110	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	110	115	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	120	57-126	9	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	122	73-156	9	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	130	52-133	8	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111570021A	Sample number(s): 6305901									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	78	84	35-84	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	90	92	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	90	98	56-135	9	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111590013A	Sample number(s): 6305879-6305888,6305890-6305900									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	86	95	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	94		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111640013A	Sample number(s): 6305879-6305888,6305890-6305900									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	94		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	81		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	100		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	127		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	88		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	119		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	84		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	103		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	79		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	78		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	95		72-138		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endrin	0.066	U	0.066	0.34	ug/kg	110		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	94		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	118		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	117		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111580017A	Sample number(s): 6305901									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	98	98	69-125	0	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	103	99	77-125	4	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	100	68-124	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	87	80-121	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	80	80	46-103	0	30
Batch number: 111580029A	Sample number(s): 6305880-6305888,6305890-6305892,6305896									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	107		69-132		
EFH (C30 - C40)	0.48	J	0.40	1.2	mg/kg	106		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		54-107		
Batch number: 111540022A	Sample number(s): 6305880-6305881,6305885-6305888									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	85		75-125		
Methanol	100 U		100.	500	ug/kg	89		68-129		
Batch number: 111570001A	Sample number(s): 6305880-6305888,6305890-6305892,6305896									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111580038A	Sample number(s): 6305882-6305884,6305890-6305892,6305896									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 111580039A	Sample number(s): 6305901									
Ethanol	200 U		200.	1,000	ug/l	92		66-132		
Isopropanol	200 U		200.	1,000	ug/l	88		75-125		
Methanol	200 U		200.	1,000	ug/l	96		71-140		
Batch number: 111600001A	Sample number(s): 6305901									
Diethylene glycol	10	U	10.	100	mg/l	135*	115	78-126	16	20
Ethylene glycol	10	U	10.	100	mg/l	130*	105	80-124	21*	20
Propylene glycol	10	U	10.	100	mg/l	130*	105	80-120	21*	20
Batch number: 111570007A	Sample number(s): 6305901									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
m-Terphenyl	0.080 U	0.080	0.25	mg/l	88	86	75-125	2	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	100	98	75-125	2	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	96	94	75-125	2	20
Batch number: 111590036A	Sample number(s): 6305880-6305888,6305890-6305892,6305896								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	93		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	108		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		
Batch number: 111601848003	Sample number(s): 6305901								
Aluminum	0.0834 U	0.0834	0.200	mg/l	102	105	90-112	3	20
Boron	0.0138 U	0.0138	0.0500	mg/l	103	103	89-110	0	20
Calcium	0.0702 U	0.0702	0.200	mg/l	103	107	90-112	4	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	105	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	101	105	80-120	3	20
Magnesium	0.0195 J	0.0172	0.100	mg/l	104	108	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	108	108	90-110	0	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	109	103	80-120	5	20
Potassium	0.239 U	0.239	0.500	mg/l	102	106	85-115	4	20
Sodium	0.433 U	0.433	1.00	mg/l	102	105	87-114	3	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	107	106	90-110	0	20
Tin	0.0098 U	0.0098	0.0200	mg/l	107	102	90-110	5	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	108	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	102	107	80-120	5	20
Batch number: 111605713002	Sample number(s): 6305901								
Mercury	0.00012 J	0.00004 6	0.00020	mg/l	109	111	80-120	2	20
Batch number: 111606050001A	Sample number(s): 6305901								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	106	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	104	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	111	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	107	105	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	105	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	99	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	107	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	104	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	106	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	106	105	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	102	98	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	89-116	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	103	90-116	1	20
Batch number: 111606050001B	Sample number(s): 6305901								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	116*	85-114	8	20
Batch number: 111606050001C	Sample number(s): 6305901								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	107	89-115	2	20
Batch number: 111606050001D	Sample number(s): 6305901								
Barium	0.00053 U	0.00053	0.0020	mg/l	111	104	88-113	6	20
Batch number: 111611026001A	Sample number(s): 6305879-6305900								
Antimony	0.0600 U	0.0600	0.200	mg/kg	158		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	103		83-113		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0160 U	0.0160	0.100	mg/kg	105		86-111		
Cadmium	0.0400 U	0.0400	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	101		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	101		83-110		
Lead	0.0635 J	0.0104	0.200	mg/kg	99		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0120 U	0.0120	0.100	mg/kg	100		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	104		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	104		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	98		81-112		
Batch number: 111611026001B	Sample number(s): 6305879-6305900								
Selenium	0.0400 U	0.0400	0.400	mg/kg	107		83-111		
Batch number: 111611026001C	Sample number(s): 6305879-6305900								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 111611026001D	Sample number(s): 6305879-6305900								
Barium	0.108 U	0.108	0.400	mg/kg	102		81-111		
Batch number: 111615708001	Sample number(s): 6305879-6305900								
Aluminum	5.03 U	5.03	20.0	mg/kg	103		61-110		
Boron	0.596 J	0.360	5.00	mg/kg	95		78-110		
Calcium	12.9 J	2.50	20.0	mg/kg	101		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	101		61-110		
Lithium	0.62 U	0.62	2.0	mg/kg	104		80-120		
Magnesium	0.711 J	0.440	10.0	mg/kg	103		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		89-112		
Phosphorus	1.92 J	0.560	10.0	mg/kg	104		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	103		78-110		
Sodium	5.95 U	5.95	100	mg/kg	97		87-110		
Strontium	0.0700 J	0.0620	0.500	mg/kg	98		86-110		
Tin	1.52 J	1.00	10.0	mg/kg	92		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	116		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	108		80-120		
Batch number: 111615711001	Sample number(s): 6305879-6305900								
Mercury	0.0028 U	0.0028	0.0964	mg/kg	92		88-123		
Batch number: 11154196902B	Sample number(s): 6305901								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	102	102	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	105	105	90-110	1	20
Batch number: 11154281401A	Sample number(s): 6305901								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	105	107	90-110	2	20
Batch number: 11158102201A	Sample number(s): 6305880-6305881								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11158102201B	Sample number(s): 6305882-6305887,6305889-6305892,6305896								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11158117101B	Sample number(s): 6305901								
17b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	98	97	90-110	0	20
Batch number: 11158243202A	Sample number(s): 6305879-6305887,6305889-6305900								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	95		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11165621702A	Sample number(s): 6305901									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	1	20
Batch number: 11166621201A	Sample number(s): 6305879-6305887,6305889-6305891									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11166621201B	Sample number(s): 6305892-6305900									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11168621201A	Sample number(s): 6305879-6305887,6305889-6305891									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11168621201B	Sample number(s): 6305892-6305900									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11154020002A	Sample number(s): 6305901									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11158039401B	Sample number(s): 6305879-6305880									
18a pH by 9045C						100		95-105		
Batch number: 11158039402A	Sample number(s): 6305881-6305886,6305889-6305893									
18a pH by 9045C						100		95-105		
Batch number: 11158039402B	Sample number(s): 6305894-6305900									
18a pH by 9045C						100		95-105		
Batch number: 11161162401B	Sample number(s): 6305879,6305893-6305895,6305897-6305900									
Moisture Content by 160.3						100		80-120		
Batch number: 11174162401A	Sample number(s): 6305880-6305892,6305896									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11158SLD026	Sample number(s): 6305879-6305888,6305890-6305900 UNSPK: 6305886								
Acenaphthene	87	85	63-105	1	30				
Acenaphthylene	82	83	67-114	1	30				
Anthracene	92	92	60-122	0	30				
Benzo(a)anthracene	100	100	59-128	0	30				
Benzo(a)pyrene	102	100	45-138	2	30				
Benzo(b)fluoranthene	113	117	43-155	3	30				
Benzo(g,h,i)perylene	83	66	33-141	21	30				
Benzo(k)fluoranthene	99	97	42-144	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	110	104	57-173	5	30				
Di-n-butylphthalate	108	109	65-148	1	30				
Chrysene	99	107	48-134	9	30				
Dibenz(a,h)anthracene	93	78	22-133	18	30				
Diethylphthalate	89	90	70-136	2	30				
Dimethylphthalate	91	89	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	76	90	39-167	11	30				
Fluoranthene	100	107	26-166	7	30				
Fluorene	89	89	66-122	1	30				
Indeno(1,2,3-cd)pyrene	91	77	21-143	17	30				
1-Methylnaphthalene	93	92	72-123	0	30				
2-Methylnaphthalene	83	84	64-103	1	30				
Naphthalene	85	86	61-102	1	30				
N-Nitrosodimethylamine	79	79	48-113	1	30				
Di-n-octylphthalate	121	106	40-192	13	30				
Phenanthrene	89	90	12-165	1	30				
Pyrene	89	90	15-153	1	30				
Batch number: 11158SLH026	Sample number(s): 6305880-6305888,6305890-6305892,6305896 UNSPK: 6305886								
N-Nitrosodimethylamine	112	89	70-130	23	30				
Batch number: 11159SLE026	Sample number(s): 6305879-6305888,6305890-6305900 UNSPK: 6305886								
Acenaphthene	71*	78	75-115	9	30				
Acenaphthylene	73*	80*	81-110	8	30				
Aniline	49	52	35-95	5	30				
Anthracene	72*	76	75-115	5	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	73	78	65-122	6	30				
Benzo(a)pyrene	76	81	57-126	6	30				
Benzo(b)fluoranthene	71	76	59-125	6	30				
Benzo(g,h,i)perylene	77	82	59-127	6	30				
Benzo(k)fluoranthene	78	82	56-132	4	30				
Benzoic acid	21	23	10-173	7	30				
Benzyl alcohol	79	81	67-115	2	30				
4-Bromophenyl-phenylether	73	78	67-129	6	30				
Butylbenzylphthalate	82	88	73-134	8	30				
Di-n-butylphthalate	70	75	67-123	7	30				
Carbazole	68	73	64-120	6	30				
4-Chloro-3-methylphenol	75*	78	76-110	4	30				
4-Chloroaniline	35	40	23-95	14	30				
bis(2-Chloroethoxy)methane	73*	76	75-104	4	30				
bis(2-Chloroethyl)ether	73	75	60-116	2	30				
bis(2-Chloroisopropyl)ether	78	79	55-142	1	30				
2-Chloronaphthalene	72	75	50-141	3	30				
2-Chlorophenol	78	80	73-121	2	30				
4-Chlorophenyl-phenylether	71*	75*	80-109	5	30				
Chrysene	75	79	62-128	5	30				
Dibenz(a,h)anthracene	75	80	65-125	6	30				
Dibenzofuran	73	77	71-112	5	30				
1,2-Dichlorobenzene	69	70	66-108	1	30				
1,3-Dichlorobenzene	67	67	63-109	0	30				
1,4-Dichlorobenzene	66*	68*	70-100	4	30				
3,3'-Dichlorobenzidine	54	59	16-119	10	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dichlorophenol	74*	78	78-117	5	30				
Diethylphthalate	69	75	66-118	7	30				
2,4-Dimethylphenol	74*	81	78-110	9	30				
3,5-Dimethylphenol	102	102	70-130	0	30				
Dimethylphthalate	71	75	64-118	6	30				
4,6-Dinitro-2-methylphenol	49	53	24-116	8	30				
2,4-Dinitrophenol	25	34	20-143	29	30				
2,4-Dinitrotoluene	69*	73	73-113	6	30				
2,6-Dinitrotoluene	69	76	69-123	8	30				
1,2-Diphenylhydrazine	80	85	71-129	6	30				
bis(2-Ethylhexyl)phthalate	83	88	63-122	6	30				
Fluoranthene	66*	69*	73-112	4	30				
Fluorene	72*	77	77-111	6	30				
Hexachlorobenzene	72*	77	77-114	6	30				
Hexachlorobutadiene	65	73	62-120	12	30				
Hexachlorocyclopentadiene	53	54	10-153	0	30				
Hexachloroethane	67	69	57-109	2	30				
Indeno(1,2,3-cd)pyrene	67	76	61-126	12	30				
Isophorone	73	77	73-102	5	30				
1-Methylnaphthalene	76	79	73-112	4	30				
2-Methylnaphthalene	68*	73*	76-114	6	30				
2-Methylphenol	78	79	75-111	1	30				
4-Methylphenol	72	73	71-111	1	30				
Naphthalene	70*	76	72-116	7	30				
2-Nitroaniline	74	77	67-125	4	30				
3-Nitroaniline	67	74	59-122	9	30				
4-Nitroaniline	63	67	52-112	6	30				
Nitrobenzene	71*	76	72-106	6	30				
2-Nitrophenol	67*	74	74-115	10	30				
4-Nitrophenol	59	62	54-113	5	30				
N-Nitroso-di-n-propylamine	74	76	60-116	2	30				
N-Nitrosodimethylamine	64	66	47-116	3	30				
N-Nitrosodiphenylamine	77*	82*	86-145	5	30				
Di-n-octylphthalate	75	81	56-126	8	30				
Pentachlorophenol	55	65	28-127	16	30				
Phenanthrene	71	76	65-125	6	30				
Phenol	80	80	58-126	1	30				
Pyrene	84	87	74-126	3	30				
1,2,4-Trichlorobenzene	70*	75	72-115	7	30				
2,4,5-Trichlorophenol	73*	75*	78-109	2	30				
2,4,6-Trichlorophenol	72*	79	77-115	8	30				
Batch number: 111670008A	Sample number(s): 6305880-6305888,6305890-6305892,6305896 UNSPK: 6305886								
4-Amino-2,6-Dinitrotoluene	105	113	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	106	113	80-137	2	50				
1,3-Dinitrobenzene	111	118	38-166	2	50				
2,4-Dinitrotoluene	104	109	80-131	1	50				
2,6-Dinitrotoluene	105	111	80-127	2	50				
HMX	90	97	63-128	4	50				
Nitrobenzene	105	115	80-125	5	50				
Nitroglycerin	91	97	80-120	3	50				
2-Nitrotoluene	103	108	80-122	1	50				
3-Nitrotoluene	110	116	72-119	2	50				

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Quality Control Summary

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Reported: 07/07/11 at 01:00 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrotoluene	102	108	80-125	2	50				
PETN	113	118	80-121	1	50				
RDX	87	94	75-129	4	50				
Tetryl	72	76	55-174	2	50				
1,3,5-Trinitrobenzene	90	101	82-126	8	50				
2,4,6-Trinitrotoluene	106	113	82-130	3	50				
Batch number: 111590006A	Sample number(s): 6305880-6305888,6305890-6305892,6305896 UNSPK: 6305886								
25a Formaldehyde 8315A	82	88	80-120	4	50				
Batch number: 111600016A	Sample number(s): 6305879-6305888,6305890-6305900 UNSPK: 6305886								
2,4-D	90	87	17-180	3	35				
Dalapon	40	39	10-125	4	50				
2,4-DB	28	46	10-201	49	50				
Dicamba	49	48	10-190	2	50				
Dinoseb	12	13	10-46	3	35				
2,4-DP (Dichlorprop)	116	110	33-178	5	50				
MCPA	-21*	-17*	10-213	28	50				
MCPP (Mecoprop)	77	94	10-184	19	50				
2,4,5-T	22	14	10-156	40*	35				
2,4,5-TP	75	47	24-141	46*	35				
Batch number: 111590022A	Sample number(s): 6305880,6305895,6305898 UNSPK: P302756								
6a Perchlorate EPA 6850	107	103	80-120	4	20				
Batch number: 111590013A	Sample number(s): 6305879-6305888,6305890-6305900 UNSPK: 6305886								
PCB-1016	94	108	29-146	13	50				
PCB-1260	89	91	39-149	2	50				
Batch number: 111640013A	Sample number(s): 6305879-6305888,6305890-6305900 UNSPK: 6305886								
Aldrin	70	67	16-126	4	50				
Alpha BHC	100	97	10-129	3	50				
Beta BHC	84	72	14-147	16	50				
Gamma BHC - Lindane	97	88	10-140	10	50				
p,p-DDD	96	96	16-163	0	50				
p,p-DDE	68	68	18-161	0	50				
p,p-DDT	96	88	10-176	8	50				
Delta BHC	84	72	23-140	16	50				
Dieldrin	74	68	19-154	8	50				
Endosulfan I	61	55	16-137	11	50				
Endosulfan II	62	60	28-154	3	50				
Endosulfan Sulfate	80	68	21-160	17	50				
Endrin	80	80	11-149	0	50				
Endrin Aldehyde	61	61	10-148	0	35				
Endrin Ketone	76	80	22-165	6	50				
Heptachlor	115	109	13-126	5	50				
Heptachlor Epoxide	82	82	13-157	0	50				
Methoxychlor	98	92	32-147	6	50				
Batch number: 111580029A	Sample number(s): 6305880-6305888,6305890-6305892,6305896 UNSPK: 6305886								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	199*	217*	49-123	8	20				
EFH (C21-C30)	-76 (2)	121 (2)	49-123	31*	20				

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Quality Control Summary

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Reported: 07/07/11 at 01:00 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C30 - C40)	-186 (2)	341 (2)	49-123	27*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 111540022A	Sample number(s): 6305880-6305881,6305885-6305888 UNSPK: 6305886								
Ethanol	64	65	48-130	2	20				
Isopropanol	69	70	12-149	2	20				
Methanol	75	77	43-138	3	20				
Batch number: 111570001A	Sample number(s): 6305880-6305888,6305890-6305892,6305896 UNSPK: 6305886								
Diethylene glycol	7*	8*	59-109	8	20				
Ethylene glycol	38*	41*	63-107	7	20				
Propylene glycol	54*	57*	63-107	7	20				
Batch number: 111580038A	Sample number(s): 6305882-6305884,6305890-6305892,6305896 UNSPK: P306851								
Ethanol	79	79	48-130	0	20				
Isopropanol	77	77	12-149	1	20				
Methanol	81	82	43-138	0	20				
Batch number: 111580039A	Sample number(s): 6305901 UNSPK: P302883								
Ethanol	92	92	62-145	0	20				
Isopropanol	88	92	73-131	4	20				
Methanol	96	96	52-159	0	20				
Batch number: 111590036A	Sample number(s): 6305880-6305888,6305890-6305892,6305896 UNSPK: 6305886								
m-Terphenyl	78	81	75-125	4	20				
o-Terphenyl	94	97	75-125	3	20				
p-Terphenyl	94	99	75-125	5	20				
Batch number: 111611026001A	Sample number(s): 6305879-6305900 UNSPK: 6305886 BKG: 6305886								
Antimony	64*	72*	75-125	7	20	0.230	0.136 J	52* (1)	20
Arsenic	-45 (2)	182 (2)	75-125	13	20	32.9	18.5	56*	20
Beryllium	93	121	75-125	12	20	0.898	0.600	40*	20
Cadmium	115	144*	75-125	16	20	0.373	0.196	62* (1)	20
Chromium	75	134*	75-125	14	20	27.9	18.3	42*	20
Cobalt	116	153*	75-125	22*	20	11.0	6.64	50*	20
Copper	97	159*	75-125	20	20	16.6	11.7	34*	20
Lead	76	194*	75-125	24*	20	10.1	6.65	41*	20
Nickel	74*	155*	75-125	21*	20	25.4	16.3	43*	20
Silver	130*	155*	75-125	16	20	0.0498 J	0.0481 J	4 (1)	20
Thallium	117	171*	75-125	21*	20	0.378	0.253	40* (1)	20
Vanadium	39 (2)	148 (2)	75-125	18	20	49.9	34.8	36*	20
Zinc	-47 (2)	172 (2)	75-125	21*	20	92.6	62.5	39*	20
Batch number: 111611026001B	Sample number(s): 6305879-6305900 UNSPK: 6305886 BKG: 6305886								
Selenium	125	141*	75-125	9	20	0.151 J	0.127 J	18 (1)	20
Batch number: 111611026001C	Sample number(s): 6305879-6305900 UNSPK: 6305886 BKG: 6305886								
Molybdenum	130*	160*	75-125	17	20	0.820	0.452	58* (1)	20
Batch number: 111611026001D	Sample number(s): 6305879-6305900 UNSPK: 6305886 BKG: 6305886								
Barium	-143 (2)	231 (2)	75-125	24*	20	149	96.7	42*	20

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Quality Control Summary

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Reported: 07/07/11 at 01:00 PM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111615708001	Sample number(s): 6305879-6305900 UNSPK: 6305886 BKG: 6305886								
Aluminum	188 (2)	530 (2)	75-125	4	20	16,300	15,400	6	20
Boron	100	100	84-115	3	20	0.350 U	0.353 U	0 (1)	20
Calcium	102 (2)	108 (2)	75-125	0	20	3,640	3,440	6	20
Iron	-2229 (2)	-1538 (2)	75-125	3	20	23,400	21,200	10	20
Lithium	98	99	82-114	1	20	31.7	29.4	8	20
Magnesium	-95 (2)	-26 (2)	75-125	3	20	5,420	4,960	9	20
Manganese	148 (2)	80 (2)	75-125	9	20	335	318	5	20
Phosphorus	62 (2)	70 (2)	75-125	1	20	485	451	7	20
Potassium	97	114	75-125	3	20	3,100	2,830	9	20
Sodium	97	98	75-125	1	20	111	100	10 (1)	20
Strontium	95	97	75-115	1	20	18.4	18.2	1	20
Tin	83	82	80-110	5	20	2.87 J	2.59 J	10 (1)	20
Titanium	158 (2)	190 (2)	75-125	2	20	1,440	1,360	6	20
Zirconium	101	101	75-125	2	20	5.79	6.61	13 (1)	20
Batch number: 111615711001	Sample number(s): 6305879-6305900 UNSPK: 6305886 BKG: 6305886								
Mercury	110	100	65-135	9	20	0.0275 J	0.0291 J	6 (1)	20
Batch number: 11158102201A	Sample number(s): 6305880-6305881 UNSPK: P304840 BKG: P304840								
17a Cyanide by 9012B	94		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11158102201B	Sample number(s): 6305882-6305887,6305889-6305892,6305896 UNSPK: 6305886 BKG: 6305886								
17a Cyanide by 9012B	97		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11158243202A	Sample number(s): 6305879-6305887,6305889-6305900 UNSPK: 6305886 BKG: 6305886								
3a Cr VI by EPA 7199	94		75-125			0.38 J	0.68 J	57* (1)	20
Batch number: 11166621201A	Sample number(s): 6305879-6305887,6305889-6305891 UNSPK: 6305886 BKG: 6305886								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11166621201B	Sample number(s): 6305892-6305900 UNSPK: 6305892 BKG: 6305892								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11168621201A	Sample number(s): 6305879-6305887,6305889-6305891 UNSPK: 6305886 BKG: 6305886								
11a Anions by 300.0 - Fluoride	69*		80-120			2.1	1.7	21* (1)	20
11a Anions by 300.0 - Nitrate	99		80-120			2.4	2.3	4 (1)	20
Batch number: 11168621201B	Sample number(s): 6305892-6305900 UNSPK: 6305892 BKG: 6305892								
11a Anions by 300.0 - Fluoride	76*		80-120			1.5	0.80 U	200* (1)	20
11a Anions by 300.0 - Nitrate	85		80-120			6.1	4.2	38* (1)	20
Batch number: 11158039401B	Sample number(s): 6305879-6305880 BKG: 6305880								
18a pH by 9045C						6.57	6.72	2	3
Batch number: 11158039402A	Sample number(s): 6305881-6305886,6305889-6305893 BKG: 6305886								
18a pH by 9045C						7.59	7.49	1	3
Batch number: 11158039402B	Sample number(s): 6305894-6305900 BKG: P305966								
18a pH by 9045C						8.72	8.69	0	3

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11161162401B	Sample number(s): 6305879,6305893-6305895,6305897-6305900					BKG: 6305894			
Moisture Content by 160.3						4.8	4.9	0	20
Batch number: 11174162401A	Sample number(s): 6305880-6305892,6305896					BKG: 6305886			
28a Moisture Content by 160.3						2.7	2.6	2	20
Moisture Content by 160.3						2.7	2.6	2	20
Moisture Content by 160.3						2.7	2.6	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11155WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6305901	51	34	81	79	80	72
Blank	56	41	92	81	84	79
LCS	60	41	88	85	90	86
LCSD	63	43	91	89	91	90
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11157WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6305901	110	117	118
Blank	108	105	117
LCS	103	98	112
LCSD	95	90	112
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11158SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6305879	102	91	104
6305880	101	88	98
6305881	105	88	99
6305882	104	92	101
6305883	104	91	104
6305884	103	92	106
6305885	94	85	103
6305886	100	89	111
6305887	99	90	111
6305888	100	88	101

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Quality Control Summary

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Surrogate Quality Control

6305890	61	56	74
6305891	101	91	106
6305892	99	84	98
6305893	100	86	105
6305894	99	80	111
6305895	103	88	119
6305896	99	86	124
6305897	93	81	75
6305898	99	87	107
6305899	106	86	107
6305900	105	87	103
Blank	99	87	114
LCS	96	87	110
MS	99	90	111
MSD	100	88	101
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11158SLH026

	N-Nitrosodimethylamine-d6
6305880	88
6305881	93
6305882	93
6305883	108
6305884	86
6305885	95
6305886	1105*
6305887	1142*
6305888	1193*
6305890	86
6305891	838*
6305892	1326*
6305896	993*
Blank	86
LCS	94
MS	1142*
MSD	1193*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11159SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6305879	102	99	93	91	94	100
6305880	91	88	85	82	85	91
6305881	75	71	67	66	69	74
6305882	96	92	88	86	90	94
6305883	97	93	88	87	89	95
6305884	95	92	85	81	87	93
6305885	52	50	43	47	50	51
6305886	100	97	93	87	90	95
6305887	99	95	88	85	87	92
6305888	96	91	91	90	90	94

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Surrogate Quality Control

6305890	95	94	87	87	89	96
6305891	86	86	77	85	93	86
6305892	83	84	82	87	93	86
6305893	86	87	83	89	94	81
6305894	83	86	81	89	94	80
6305895	88	90	84	95	96	82
6305896	83	83	78	89	94	81
6305897	85	87	79	88	92	81
6305898	85	86	85	89	93	81
6305899	84	85	81	90	91	80
6305900	85	85	82	88	92	80
Blank	77	78	88	72	74	74
LCS	92	88	97	84	85	90
MS	99	95	88	85	87	92
MSD	96	91	91	90	90	94
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11159WAB026

	N-Nitrosodimethylamine-d6
6305901	149
Blank	129
LCS	129
LCSD	136
Limits:	50-150

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111530028A

	Butyraldehyde
6305901	127
Blank	78
LCS	44*
LCSD	39*
Limits:	45-145

Analysis Name: 12b Pesticides by 8081A
Batch number: 111570020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6305901	111	113
Blank	105	95
LCS	105	108
LCSD	107	86
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111570021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6305901	119	97

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Surrogate Quality Control

Blank	125	97
LCS	112	78
LCSD	110	82
Limits:	30-150	45-120

Analysis Name: 16b Energetics by 8330A
Batch number: 111580002A

	2-Nitro-m-xylene
6305901	105
Blank	106
LCS	104
LCSD	107
Limits:	50-134

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111590006A

	Butyraldehyde
6305880	72
6305881	91
6305882	73
6305883	73
6305884	82
6305885	85
6305886	72
6305887	92
6305888	88
6305890	83
6305891	83
6305892	81
6305896	72
Blank	83
LCS	63*
MS	92
MSD	88
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111590013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6305879	98	110
6305880	98	147*
6305881	104	85
6305882	100	98
6305883	96	71
6305884	109	107
6305885	96	98
6305886	100	113
6305887	89	104
6305888	99	105
6305890	100	101
6305891	104	114

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Surrogate Quality Control

6305892	110	85
6305893	84	99
6305894	99	101
6305895	108	103
6305896	110	108
6305897	106	105
6305898	86	83
6305899	101	96
6305900	102	92
Blank	91	94
LCS	100	100
LCSD	103	112
MS	89	104
MSD	99	105
Limits:	53-139	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111590018A

	2,4-Dichlorophenylacetic acid
6305901	86
Blank	79
LCS	97
LCSD	95
Limits:	35-144

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111600016A

	2,4-Dichlorophenylacetic acid
6305879	107
6305880	56
6305881	74
6305882	78
6305883	123
6305884	108
6305885	102
6305886	94
6305887	68
6305888	73
6305890	86
6305891	70
6305892	67
6305893	83
6305894	61
6305895	74
6305896	115
6305897	111
6305898	95
6305899	89
6305900	88
Blank	87
LCS	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Surrogate Quality Control

MS	68	
MSD	73	
Limits:	36-156	

Analysis Name: 12a Pesticides by 8081A
Batch number: 111640013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6305879	65	91
6305880	61	97
6305881	78	84
6305882	54	69
6305883	71	61
6305884	42*	26
6305885	47*	52
6305886	50	54
6305887	74	58
6305888	78	87
6305890	60	77
6305891	79	97
6305892	66	110
6305893	63	80
6305894	73	101
6305895	60	84
6305896	66	51
6305897	66	79
6305898	55	60
6305899	79	108
6305900	77	78
Blank	78	107
LCS	74	100
MS	74	58
MSD	78	87
Limits:	50-130	20-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111670008A

	2-Nitro-m-xylene
6305880	120
6305881	126
6305882	128
6305883	117
6305884	128
6305885	123
6305886	116
6305887	111
6305888	107
6305890	130
6305891	133
6305892	117
6305896	126
Blank	120
LCS	122
LCSD	124
MS	111

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Surrogate Quality Control

MSD	107
Limits:	80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111540022A

	Acetone
6305880	91
6305881	91
6305885	95
6305886	92
6305887	109
6305888	107
Blank	92
LCS	94
MS	109
MSD	107
Limits:	42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111570001A

	Tetramethylene glycol
6305880	81
6305881	84
6305882	85
6305883	81
6305884	87
6305885	82
6305886	83
6305887	79
6305888	86
6305890	79
6305891	86
6305892	86
6305896	85
Blank	82
LCS	91
MS	79
MSD	86
Limits:	29-137

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111570007A

	n-Triacontane-d62
6305901	90
Blank	90
LCS	93
LCSD	90
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Surrogate Quality Control

Batch number: 111580017A

	Chlorobenzene	Orthoterphenyl
6305901	102	96
Blank	85	92
LCS	85	103
LCSD	82	98
Limits:	28-152	52-131

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111580029A

	Chlorobenzene	Orthoterphenyl
6305880	78	114
6305881	83	112
6305882	78	103
6305883	79	104
6305884	77	100
6305885	79	106
6305886	83	102
6305887	88	107
6305888	87	104
6305890	72	94
6305891	80	106
6305892	85	101
6305896	76	98
Blank	81	104
LCS	94	110
MS	88	107
MSD	87	104
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111580038A

	Acetone
6305882	88
6305883	89
6305884	91
6305890	91
6305891	88
6305892	82
6305896	88
Blank	94
LCS	93
MS	80
MSD	79
Limits:	42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 111580039A

	Acetone
6305901	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249810
Reported: 07/07/11 at 01:00 PM

Surrogate Quality Control

Blank	98
LCS	97
MS	95
MSD	100
Limits:	54-147

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111590036A

	n-Triacontane-d62
6305880	75
6305881	80
6305882	94
6305883	101
6305884	90
6305885	98
6305886	126
6305887	97
6305888	94
6305890	87
6305891	79
6305892	81
6305896	89
Blank	101
LCS	106
MS	97
MSD	94
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111600001A

	Tetramethylene glycol
6305901	100
Blank	100
LCS	123*
LCSD	106
Limits:	77-119

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1249810 Sample#6305879-901

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-131-SA5DN-SS-0.0-0.5	6/2/11	1125	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-131-SA5DN-SS-0.0-0.5	6/2/11	1125	SOIL	NONE	1-SS sleeve			X	X																	
SL-132-SA5DN-SS-0.0-0.5	6/2/11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-132-SA5DN-SS-0.0-0.5	6/2/11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-133-SA5DN-SS-0.0-0.5	6/2/11	1050	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-133-SA5DN-SS-0.0-0.5	6/2/11	1050	SOIL	NONE	1-SS sleeve			X	X																	
SL-134-SA5DN-SS-0.0-0.5	6/2/11	0845	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-134-SA5DN-SS-0.0-0.5	6/2/11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-135-SA5DN-SS-0.0-0.5	6/2/11	0900	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-135-SA5DN-SS-0.0-0.5	6/2/11	0900	SOIL	NONE	2-SS sleeves			X	X																	
SL-136-SA5DN-SS-0.0-0.5	6/2/11	0825	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-136-SA5DN-SS-0.0-0.5	6/2/11	0825	SOIL	NONE	1-SS sleeve			X	X																	
SL-137-SA5DN-SS-0.0-0.5	6/2/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-137-SA5DN-SS-0.0-0.5	6/2/11	0915	SOIL	NONE	1-SS sleeve			X	X																	
SL-138-SA5DN-SS-0.0-0.5MS	6/2/11	0930	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-138-SA5DN-SS-0.0-0.5MS	6/2/11	0930	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD sample
SL-139-SA5DN-SS-0.0-0.5	6/2/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-139-SA5DN-SS-0.0-0.5	6/2/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-140-SA5DN-SS-0.0-0.5	6/2/11	1030	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-140-SA5DN-SS-0.0-0.5	6/2/11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-141-SA5DN-SS-0.0-0.5	6/2/11	1315	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-141-SA5DN-SS-0.0-0.5	6/2/11	1315	SOIL	NONE	1-SS sleeve			X	X																	
SL-142-SA5DN-SS-0.0-0.5	6/2/11	1415	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-142-SA5DN-SS-0.0-0.5	6/2/11	1415	SOIL	NONE	1-SS sleeve			X	X																	
SL-143-SA5DN-SS-0.0-0.5	6/2/11	1335	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-143-SA5DN-SS-0.0-0.5	6/2/11	1335	SOIL	NONE	1-SS sleeve			X	X																	
SL-144-SA5DN-SS-0.0-0.5	6/2/11	1435	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X										
SL-144-SA5DN-SS-0.0-0.5	6/2/11	1435	SOIL	NONE	1-SS sleeve			X	X																	
DUP-12-SA5DN-QC-060211	6/2/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP-12-SA5DN-QC-060211	6/2/11	0945	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/02/2011 / 1700	6/3/11 1015	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9051; 8754 3339 9062 8754 3339 9073; 8754 3339 9084 8754 3339 9095	

acct#13013 Cap#1249810 Sample#6305879-901

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*VOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-145-SA5DN-SS-0.0-0.5	6/2/11	1450	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-145-SA5DN-SS-0.0-0.5	6/2/11	1450	SOIL	NONE	1-SS sleeve			X	X																	
SL-149-SA5DN-SS-0.0-0.5	6/2/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X										
SL-149-SA5DN-SS-0.0-0.5	6/2/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-150-SA5DN-SS-0.0-0.5	6/2/11	1505	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-150-SA5DN-SS-0.0-0.5	6/2/11	1505	SOIL	NONE	1-SS sleeve			X	X																	
SL-151-SA5DN-SS-0.0-0.5	6/2/11	1350	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-151-SA5DN-SS-0.0-0.5	6/2/11	1350	SOIL	NONE	1-SS sleeve			X	X																	
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NONE	12-1 liter ambers			X	X	X					X	X	X			X	X		X			
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	HNO3	1-500 mL poly	X																				
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NONE	1-500 mL poly		X				X	X	X													
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NaOH	1-500 mL glass																	X				
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	None	1-250 mL glass														X							
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	HCl	2-40 mL vial																				X	
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NONE	4-40 mL vial													X						X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/02/2011 / 1700	6/3/11 1015	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill Nos)	
		8754 3339 9051; 8754 3339 9062 8754 3339 9073; 8754 3339 9084 8754 3339 9095	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/03/2011
Group Number: 1249814
SDG: DX097
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-131-SA5DN-SS-0.0-0.5 Soil	6305929
SL-132-SA5DN-SS-0.0-0.5 Soil	6305930
SL-133-SA5DN-SS-0.0-0.5 Soil	6305931
SL-134-SA5DN-SS-0.0-0.5 Soil	6305932
SL-135-SA5DN-SS-0.0-0.5 Soil	6305933
SL-136-SA5DN-SS-0.0-0.5 Soil	6305934
SL-137-SA5DN-SS-0.0-0.5 Soil	6305935
SL-138-SA5DN-SS-0.0-0.5 Soil	6305936
SL-138-SA5DN-SS-0.0-0.5MS Soil	6305937
SL-138-SA5DN-SS-0.0-0.5MSD Soil	6305938
SL-139-SA5DN-SS-0.0-0.5 Soil	6305939
SL-140-SA5DN-SS-0.0-0.5 Soil	6305940
SL-141-SA5DN-SS-0.0-0.5 Soil	6305941
SL-142-SA5DN-SS-0.0-0.5 Soil	6305942
SL-143-SA5DN-SS-0.0-0.5 Soil	6305943
SL-144-SA5DN-SS-0.0-0.5 Soil	6305944
DUP-12-SA5DN-QC-060211 Soil	6305945
SL-145-SA5DN-SS-0.0-0.5 Soil	6305946
SL-149-SA5DN-SS-0.0-0.5 Soil	6305947
SL-150-SA5DN-SS-0.0-0.5 Soil	6305948
SL-151-SA5DN-SS-0.0-0.5 Soil	6305949
EB12-SA5DN-SS-060211 Water	6305950

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305929
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9701 SDG#: DX097-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305929
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9701 SDG#: DX097-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0914	JBQ	0.0159	1.03	1
11031	12378-PeCDD	40321-76-4	0.824	JB	0.0541	5.15	1
11031	123478-HxCDD	39227-28-6	1.61	JB	0.0663	5.15	1
11031	123678-HxCDD	57653-85-7	5.57	B	0.0698	5.15	1
11031	123789-HxCDD	19408-74-3	3.60	JB	0.0647	5.15	1
11031	1234678-HpCDD	35822-46-9	148	B	0.152	5.15	1
11031	OCDD	3268-87-9	3,010	B	0.129	10.3	1
11031	2378-TCDF	51207-31-9	0.0686	U	0.0686	1.03	1
11031	12378-PeCDF	57117-41-6	0.227	JBQ	0.0335	5.15	1
11031	23478-PeCDF	57117-31-4	0.667	JB	0.0324	5.15	1
11031	123478-HxCDF	70648-26-9	1.38	JB	0.0579	5.15	1
11031	123678-HxCDF	57117-44-9	0.743	JB	0.0521	5.15	1
11031	123789-HxCDF	72918-21-9	0.440	JB	0.0518	5.15	1
11031	234678-HxCDF	60851-34-5	0.996	JB	0.0483	5.15	1
11031	1234678-HpCDF	67562-39-4	14.1	B	0.0406	5.15	1
11031	1234789-HpCDF	55673-89-7	1.60	JB	0.0533	5.15	1
11031	OCDF	39001-02-0	38.7	B	0.0339	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305929
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9701 SDG#: DX097-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-131-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305929
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9701 SDG#: DX097-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/18/2011 20:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305930
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9702 SDG#: DX097-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305930
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9702 SDG#: DX097-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.263 JB	0.0240	0.992	1
11031	12378-PeCDD	40321-76-4	2.13 JB	0.0814	4.96	1
11031	123478-HxCDD	39227-28-6	4.47 JB	0.0987	4.96	1
11031	123678-HxCDD	57653-85-7	16.8 B	0.0983	4.96	1
11031	123789-HxCDD	19408-74-3	9.69 B	0.0926	4.96	1
11031	1234678-HpCDD	35822-46-9	520 B	0.326	4.96	1
11031	OCDD	3268-87-9	14,200 EB	0.268	9.92	1
11031	2378-TCDF	51207-31-9	0.351 JB	0.0607	0.992	1
11031	12378-PeCDF	57117-41-6	0.530 JB	0.0291	4.96	1
11031	23478-PeCDF	57117-31-4	0.946 JB	0.0294	4.96	1
11031	123478-HxCDF	70648-26-9	2.41 JB	0.0735	4.96	1
11031	123678-HxCDF	57117-44-9	0.961 JB	0.0618	4.96	1
11031	123789-HxCDF	72918-21-9	0.832 JB	0.0681	4.96	1
11031	234678-HxCDF	60851-34-5	1.39 JB	0.0602	4.96	1
11031	1234678-HpCDF	67562-39-4	31.0 B	0.0514	4.96	1
11031	1234789-HpCDF	55673-89-7	2.00 JB	0.0743	4.96	1
11031	OCDF	39001-02-0	113 B	0.0586	9.92	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	74	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305930
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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X9702 SDG#: DX097-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-123789-HxCDF		78	29 - 147			
13C12-1234678-HpCDF		81	28 - 143			
13C12-1234789-HpCDF		68	26 - 138			
13C12-OCDF		63	17 - 157			
13C12-1278-TCDD (CRS)		87	35 - 197			

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: SL-132-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305930
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 11:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9702 SDG#: DX097-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/18/2011 21:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305931
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9703 SDG#: DX097-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305931
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9703 SDG#: DX097-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0387	JBQ	0.0136	1.03	1
11031	12378-PeCDD	40321-76-4	0.413	JB	0.0295	5.13	1
11031	123478-HxCDD	39227-28-6	0.717	JB	0.0578	5.13	1
11031	123678-HxCDD	57653-85-7	2.44	JB	0.0578	5.13	1
11031	123789-HxCDD	19408-74-3	1.74	JB	0.0553	5.13	1
11031	1234678-HpCDD	35822-46-9	71.8	B	0.105	5.13	1
11031	OCDD	3268-87-9	1,680	B	0.112	10.3	1
11031	2378-TCDF	51207-31-9	0.0390	JBQ	0.0332	1.03	1
11031	12378-PeCDF	57117-41-6	0.250	JB	0.0183	5.13	1
11031	23478-PeCDF	57117-31-4	0.189	JB	0.0187	5.13	1
11031	123478-HxCDF	70648-26-9	0.485	JB	0.0285	5.13	1
11031	123678-HxCDF	57117-44-9	0.190	JB	0.0256	5.13	1
11031	123789-HxCDF	72918-21-9	0.258	JB	0.0297	5.13	1
11031	234678-HxCDF	60851-34-5	0.274	JB	0.0267	5.13	1
11031	1234678-HpCDF	67562-39-4	6.51	B	0.0271	5.13	1
11031	1234789-HpCDF	55673-89-7	0.340	JB	0.0392	5.13	1
11031	OCDF	39001-02-0	23.9	B	0.0316	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-133-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305931
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9703 SDG#: DX097-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305931
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9703 SDG#: DX097-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/18/2011 22:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305932
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9704 SDG#: DX097-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-134-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305932
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9704 SDG#: DX097-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0504	JBQ	0.0129	1.03	1
11031	12378-PeCDD	40321-76-4	0.524	JBQ	0.0409	5.16	1
11031	123478-HxCDD	39227-28-6	0.926	JBQ	0.0547	5.16	1
11031	123678-HxCDD	57653-85-7	3.89	JB	0.0563	5.16	1
11031	123789-HxCDD	19408-74-3	2.38	JB	0.0526	5.16	1
11031	1234678-HpCDD	35822-46-9	119	B	0.137	5.16	1
11031	OCDD	3268-87-9	3,440	B	0.131	10.3	1
11031	2378-TCDF	51207-31-9	0.0691	JB	0.0380	1.03	1
11031	12378-PeCDF	57117-41-6	0.402	JB	0.0274	5.16	1
11031	23478-PeCDF	57117-31-4	1.26	JB	0.0261	5.16	1
11031	123478-HxCDF	70648-26-9	0.713	JB	0.0343	5.16	1
11031	123678-HxCDF	57117-44-9	0.532	JB	0.0306	5.16	1
11031	123789-HxCDF	72918-21-9	0.326	JB	0.0364	5.16	1
11031	234678-HxCDF	60851-34-5	1.03	JB	0.0324	5.16	1
11031	1234678-HpCDF	67562-39-4	7.12	B	0.0273	5.16	1
11031	1234789-HpCDF	55673-89-7	0.396	JB	0.0372	5.16	1
11031	OCDF	39001-02-0	25.7	B	0.0300	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-134-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305932
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9704 SDG#: DX097-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-134-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305932
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9704 SDG#: DX097-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/18/2011 23:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305933
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9705 SDG#: DX097-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305933
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9705 SDG#: DX097-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	JB	0.0113	1.00	1
11031	12378-PeCDD	40321-76-4	0.440	JB	0.0318	5.00	1
11031	123478-HxCDD	39227-28-6	0.800	JB	0.0528	5.00	1
11031	123678-HxCDD	57653-85-7	3.20	JB	0.0539	5.00	1
11031	123789-HxCDD	19408-74-3	2.12	JB	0.0502	5.00	1
11031	1234678-HpCDD	35822-46-9	96.2	B	0.131	5.00	1
11031	OCDD	3268-87-9	2,530	B	0.113	10.0	1
11031	2378-TCDF	51207-31-9	0.0706	JB	0.0290	1.00	1
11031	12378-PeCDF	57117-41-6	0.130	JB	0.0166	5.00	1
11031	23478-PeCDF	57117-31-4	0.332	JB	0.0168	5.00	1
11031	123478-HxCDF	70648-26-9	0.695	JB	0.0352	5.00	1
11031	123678-HxCDF	57117-44-9	0.292	JB	0.0302	5.00	1
11031	123789-HxCDF	72918-21-9	0.301	JBQ	0.0299	5.00	1
11031	234678-HxCDF	60851-34-5	0.356	JB	0.0272	5.00	1
11031	1234678-HpCDF	67562-39-4	7.46	B	0.0379	5.00	1
11031	1234789-HpCDF	55673-89-7	0.515	JB	0.0449	5.00	1
11031	OCDF	39001-02-0	27.0	B	0.0376	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305933
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9705 SDG#: DX097-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305933
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:00

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9705 SDG#: DX097-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 03:16	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305934
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9706 SDG#: DX097-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305934
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9706 SDG#: DX097-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0723	JB	0.0137	1.00	1
11031	12378-PeCDD	40321-76-4	0.399	JB	0.0242	5.02	1
11031	123478-HxCDD	39227-28-6	0.491	JB	0.0661	5.02	1
11031	123678-HxCDD	57653-85-7	1.87	JB	0.0694	5.02	1
11031	123789-HxCDD	19408-74-3	1.38	JB	0.0649	5.02	1
11031	1234678-HpCDD	35822-46-9	50.4	B	0.0977	5.02	1
11031	OCDD	3268-87-9	1,110	B	0.0943	10.0	1
11031	2378-TCDF	51207-31-9	0.0924	JBQ	0.0296	1.00	1
11031	12378-PeCDF	57117-41-6	0.481	JB	0.0199	5.02	1
11031	23478-PeCDF	57117-31-4	0.396	JB	0.0200	5.02	1
11031	123478-HxCDF	70648-26-9	0.564	JB	0.0370	5.02	1
11031	123678-HxCDF	57117-44-9	0.261	JB	0.0343	5.02	1
11031	123789-HxCDF	72918-21-9	0.407	JBQ	0.0380	5.02	1
11031	234678-HxCDF	60851-34-5	0.289	JB	0.0358	5.02	1
11031	1234678-HpCDF	67562-39-4	3.99	JB	0.0313	5.02	1
11031	1234789-HpCDF	55673-89-7	0.312	JB	0.0455	5.02	1
11031	OCDF	39001-02-0	15.8	B	0.0481	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	96	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305934
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9706 SDG#: DX097-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305934
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 08:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9706 SDG#: DX097-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 04:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305935
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9707 SDG#: DX097-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305935
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9707 SDG#: DX097-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0966	JBQ	0.0133	1.00	1
11031	12378-PeCDD	40321-76-4	0.331	JB	0.0231	5.00	1
11031	123478-HxCDD	39227-28-6	0.375	JB	0.0353	5.00	1
11031	123678-HxCDD	57653-85-7	0.976	JB	0.0372	5.00	1
11031	123789-HxCDD	19408-74-3	0.904	JB	0.0342	5.00	1
11031	1234678-HpCDD	35822-46-9	26.6	B	0.0608	5.00	1
11031	OCDD	3268-87-9	449	B	0.0585	10.0	1
11031	2378-TCDF	51207-31-9	0.172	JBQ	0.0327	1.00	1
11031	12378-PeCDF	57117-41-6	0.586	JB	0.0197	5.00	1
11031	23478-PeCDF	57117-31-4	0.422	JB	0.0194	5.00	1
11031	123478-HxCDF	70648-26-9	0.525	JB	0.0306	5.00	1
11031	123678-HxCDF	57117-44-9	0.301	JBQ	0.0279	5.00	1
11031	123789-HxCDF	72918-21-9	0.351	JB	0.0330	5.00	1
11031	234678-HxCDF	60851-34-5	0.279	JB	0.0284	5.00	1
11031	1234678-HpCDF	67562-39-4	2.72	JB	0.0222	5.00	1
11031	1234789-HpCDF	55673-89-7	0.265	JBQ	0.0313	5.00	1
11031	OCDF	39001-02-0	7.87	JB	0.0330	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305935
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9707 SDG#: DX097-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305935
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9707 SDG#: DX097-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 05:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305936
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305936
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0878	JBQ	0.0128	1.03	1
11031	12378-PeCDD	40321-76-4	0.307	JB	0.0251	5.13	1
11031	123478-HxCDD	39227-28-6	0.467	JB	0.0424	5.13	1
11031	123678-HxCDD	57653-85-7	1.18	JB	0.0445	5.13	1
11031	123789-HxCDD	19408-74-3	1.16	JB	0.0423	5.13	1
11031	1234678-HpCDD	35822-46-9	31.6	B	0.0680	5.13	1
11031	OCDD	3268-87-9	592	B	0.0695	10.3	1
11031	2378-TCDF	51207-31-9	0.0662	JBQ	0.0272	1.03	1
11031	12378-PeCDF	57117-41-6	0.231	JB	0.0131	5.13	1
11031	23478-PeCDF	57117-31-4	0.168	JB	0.0131	5.13	1
11031	123478-HxCDF	70648-26-9	0.236	JB	0.0274	5.13	1
11031	123678-HxCDF	57117-44-9	0.171	JB	0.0253	5.13	1
11031	123789-HxCDF	72918-21-9	0.129	JB	0.0291	5.13	1
11031	234678-HxCDF	60851-34-5	0.166	JBQ	0.0270	5.13	1
11031	1234678-HpCDF	67562-39-4	2.55	JB	0.0219	5.13	1
11031	1234789-HpCDF	55673-89-7	0.230	JBQ	0.0317	5.13	1
11031	OCDF	39001-02-0	7.72	JB	0.0383	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305936
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305936
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 06:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305937
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305937
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.5	B	0.0215	1.03	1
11031	12378-PeCDD	40321-76-4	93.6	B	0.0339	5.14	1
11031	123478-HxCDD	39227-28-6	93.6	B	0.0619	5.14	1
11031	123678-HxCDD	57653-85-7	93.8	B	0.0651	5.14	1
11031	123789-HxCDD	19408-74-3	93.5	B	0.0618	5.14	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0693	5.14	1
11031	OCDD	3268-87-9	642	B	0.0683	10.3	1
11031	2378-TCDF	51207-31-9	18.9	B	0.0324	1.03	1
11031	12378-PeCDF	57117-41-6	92.9	B	0.0252	5.14	1
11031	23478-PeCDF	57117-31-4	93.2	B	0.0247	5.14	1
11031	123478-HxCDF	70648-26-9	93.8	B	0.0499	5.14	1
11031	123678-HxCDF	57117-44-9	91.9	B	0.0450	5.14	1
11031	123789-HxCDF	72918-21-9	94.2	B	0.0521	5.14	1
11031	234678-HxCDF	60851-34-5	95.5	B	0.0476	5.14	1
11031	1234678-HpCDF	67562-39-4	95.0	B	0.0349	5.14	1
11031	1234789-HpCDF	55673-89-7	94.3	B	0.0504	5.14	1
11031	OCDF	39001-02-0	195	B	0.0431	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305937
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305937
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 07:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305938
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305938
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.0	B	0.0197	1.01	1
11031	12378-PeCDD	40321-76-4	90.1	B	0.0334	5.05	1
11031	123478-HxCDD	39227-28-6	91.8	B	0.0555	5.05	1
11031	123678-HxCDD	57653-85-7	91.6	B	0.0559	5.05	1
11031	123789-HxCDD	19408-74-3	91.9	B	0.0547	5.05	1
11031	1234678-HpCDD	35822-46-9	117	B	0.0801	5.05	1
11031	OCDD	3268-87-9	651	B	0.0640	10.1	1
11031	2378-TCDF	51207-31-9	18.4	B	0.0327	1.01	1
11031	12378-PeCDF	57117-41-6	91.8	B	0.0244	5.05	1
11031	23478-PeCDF	57117-31-4	92.0	B	0.0248	5.05	1
11031	123478-HxCDF	70648-26-9	93.7	B	0.0428	5.05	1
11031	123678-HxCDF	57117-44-9	92.4	B	0.0385	5.05	1
11031	123789-HxCDF	72918-21-9	93.3	B	0.0461	5.05	1
11031	234678-HxCDF	60851-34-5	92.8	B	0.0410	5.05	1
11031	1234678-HpCDF	67562-39-4	93.4	B	0.0308	5.05	1
11031	1234789-HpCDF	55673-89-7	92.1	B	0.0482	5.05	1
11031	OCDF	39001-02-0	193	B	0.0452	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305938
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305938
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9708 SDG#: DX097-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 07:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305939
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9709 SDG#: DX097-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305939
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9709 SDG#: DX097-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0289	JB	0.0127	0.990	1
11031	12378-PeCDD	40321-76-4	0.205	JB	0.0267	4.95	1
11031	123478-HxCDD	39227-28-6	0.235	JB	0.0363	4.95	1
11031	123678-HxCDD	57653-85-7	0.762	JB	0.0378	4.95	1
11031	123789-HxCDD	19408-74-3	0.852	JB	0.0359	4.95	1
11031	1234678-HpCDD	35822-46-9	11.5	B	0.0429	4.95	1
11031	OCDD	3268-87-9	139	B	0.0362	9.90	1
11031	2378-TCDF	51207-31-9	0.0547	JBQ	0.0190	0.990	1
11031	12378-PeCDF	57117-41-6	0.234	JB	0.00992	4.95	1
11031	23478-PeCDF	57117-31-4	0.170	JB	0.0101	4.95	1
11031	123478-HxCDF	70648-26-9	0.226	JB	0.0310	4.95	1
11031	123678-HxCDF	57117-44-9	0.181	JB	0.0270	4.95	1
11031	123789-HxCDF	72918-21-9	0.481	JB	0.0331	4.95	1
11031	234678-HxCDF	60851-34-5	0.188	JBQ	0.0279	4.95	1
11031	1234678-HpCDF	67562-39-4	1.30	JB	0.0157	4.95	1
11031	1234789-HpCDF	55673-89-7	0.281	JB	0.0267	4.95	1
11031	OCDF	39001-02-0	3.22	JB	0.0303	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-139-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305939
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9709 SDG#: DX097-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-139-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305939
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:10

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9709 SDG#: DX097-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 08:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305940
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9710 SDG#: DX097-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305940
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9710 SDG#: DX097-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0744	JB	0.0126	1.01	1
11031	12378-PeCDD	40321-76-4	0.662	JB	0.0404	5.05	1
11031	123478-HxCDD	39227-28-6	1.30	JB	0.0523	5.05	1
11031	123678-HxCDD	57653-85-7	5.58	B	0.0545	5.05	1
11031	123789-HxCDD	19408-74-3	3.18	JB	0.0542	5.05	1
11031	1234678-HpCDD	35822-46-9	159	B	0.110	5.05	1
11031	OCDD	3268-87-9	4,330	EB	0.117	10.1	1
11031	2378-TCDF	51207-31-9	0.390	JB	0.0790	1.01	1
11031	12378-PeCDF	57117-41-6	2.00	JB	0.0334	5.05	1
11031	23478-PeCDF	57117-31-4	0.912	JB	0.0345	5.05	1
11031	123478-HxCDF	70648-26-9	1.12	JB	0.0431	5.05	1
11031	123678-HxCDF	57117-44-9	0.573	JB	0.0379	5.05	1
11031	123789-HxCDF	72918-21-9	0.473	JB	0.0467	5.05	1
11031	234678-HxCDF	60851-34-5	0.639	JB	0.0407	5.05	1
11031	1234678-HpCDF	67562-39-4	12.4	B	0.0266	5.05	1
11031	1234789-HpCDF	55673-89-7	0.882	JB	0.0448	5.05	1
11031	OCDF	39001-02-0	40.5	B	0.0383	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305940
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9710 SDG#: DX097-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305940
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9710 SDG#: DX097-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/20/2011 14:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305941
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9711 SDG#: DX097-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305941
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9711 SDG#: DX097-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.212	JB	0.0321	1.06	1
11031	12378-PeCDD	40321-76-4	1.88	JB	0.107	5.32	1
11031	123478-HxCDD	39227-28-6	4.04	JB	0.0932	5.32	1
11031	123678-HxCDD	57653-85-7	14.2	B	0.0984	5.32	1
11031	123789-HxCDD	19408-74-3	8.52	B	0.0921	5.32	1
11031	1234678-HpCDD	35822-46-9	353	B	0.182	5.32	1
11031	OCDD	3268-87-9	4,790	EB	0.156	10.6	1
11031	2378-TCDF	51207-31-9	0.811	JB	0.130	1.06	1
11031	12378-PeCDF	57117-41-6	2.79	JB	0.0667	5.32	1
11031	23478-PeCDF	57117-31-4	1.32	JB	0.0670	5.32	1
11031	123478-HxCDF	70648-26-9	2.24	JB	0.0810	5.32	1
11031	123678-HxCDF	57117-44-9	1.77	JB	0.0784	5.32	1
11031	123789-HxCDF	72918-21-9	0.832	JB	0.0859	5.32	1
11031	234678-HxCDF	60851-34-5	2.41	JB	0.0810	5.32	1
11031	1234678-HpCDF	67562-39-4	39.0	B	0.0536	5.32	1
11031	1234789-HpCDF	55673-89-7	5.45	B	0.0749	5.32	1
11031	OCDF	39001-02-0	117	B	0.0447	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305941
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9711 SDG#: DX097-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-141-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305941
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9711 SDG#: DX097-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 10:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305942
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9712 SDG#: DX097-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305942
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9712 SDG#: DX097-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0640	JBQ	0.0206	1.04	1
11031	12378-PeCDD	40321-76-4	0.704	JBQ	0.0681	5.19	1
11031	123478-HxCDD	39227-28-6	1.34	JB	0.0903	5.19	1
11031	123678-HxCDD	57653-85-7	5.40	B	0.0922	5.19	1
11031	123789-HxCDD	19408-74-3	3.05	JB	0.0879	5.19	1
11031	1234678-HpCDD	35822-46-9	135	B	0.126	5.19	1
11031	OCDD	3268-87-9	1,710	B	0.106	10.4	1
11031	2378-TCDF	51207-31-9	0.457	JB	0.0889	1.04	1
11031	12378-PeCDF	57117-41-6	1.14	JB	0.0467	5.19	1
11031	23478-PeCDF	57117-31-4	0.796	JB	0.0451	5.19	1
11031	123478-HxCDF	70648-26-9	0.931	JB	0.0623	5.19	1
11031	123678-HxCDF	57117-44-9	0.758	JB	0.0603	5.19	1
11031	123789-HxCDF	72918-21-9	0.605	JB	0.0668	5.19	1
11031	234678-HxCDF	60851-34-5	1.09	JB	0.0613	5.19	1
11031	1234678-HpCDF	67562-39-4	15.6	B	0.0550	5.19	1
11031	1234789-HpCDF	55673-89-7	2.13	JB	0.0670	5.19	1
11031	OCDF	39001-02-0	43.2	B	0.0386	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-142-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305942
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9712 SDG#: DX097-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305942
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:15

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9712 SDG#: DX097-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 11:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305943
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9713 SDG#: DX097-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305943
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9713 SDG#: DX097-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.150	JB	0.0203	1.05	1
11031	12378-PeCDD	40321-76-4	1.19	JB	0.0736	5.24	1
11031	123478-HxCDD	39227-28-6	2.11	JB	0.0947	5.24	1
11031	123678-HxCDD	57653-85-7	6.31	B	0.0973	5.24	1
11031	123789-HxCDD	19408-74-3	4.78	JB	0.0971	5.24	1
11031	1234678-HpCDD	35822-46-9	158	B	0.162	5.24	1
11031	OCDD	3268-87-9	2,460	B	0.129	10.5	1
11031	2378-TCDF	51207-31-9	0.612	JB	0.102	1.05	1
11031	12378-PeCDF	57117-41-6	1.31	JB	0.0491	5.24	1
11031	23478-PeCDF	57117-31-4	0.867	JB	0.0478	5.24	1
11031	123478-HxCDF	70648-26-9	1.32	JB	0.0690	5.24	1
11031	123678-HxCDF	57117-44-9	0.923	JB	0.0661	5.24	1
11031	123789-HxCDF	72918-21-9	0.937	JB	0.0777	5.24	1
11031	234678-HxCDF	60851-34-5	1.06	JB	0.0650	5.24	1
11031	1234678-HpCDF	67562-39-4	16.5	B	0.0578	5.24	1
11031	1234789-HpCDF	55673-89-7	1.62	JB	0.0813	5.24	1
11031	OCDF	39001-02-0	56.2	B	0.0571	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	79	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305943
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9713 SDG#: DX097-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305943
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9713 SDG#: DX097-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 15:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305944
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9714 SDG#: DX097-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305944
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9714 SDG#: DX097-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0507	JB	0.0148	1.02	1
11031	12378-PeCDD	40321-76-4	0.278	JB	0.0314	5.12	1
11031	123478-HxCDD	39227-28-6	0.248	JB	0.0496	5.12	1
11031	123678-HxCDD	57653-85-7	1.11	JB	0.0507	5.12	1
11031	123789-HxCDD	19408-74-3	1.23	JB	0.0488	5.12	1
11031	1234678-HpCDD	35822-46-9	14.9	B	0.0582	5.12	1
11031	OCDD	3268-87-9	271	B	0.0656	10.2	1
11031	2378-TCDF	51207-31-9	0.125	JB	0.0328	1.02	1
11031	12378-PeCDF	57117-41-6	0.388	JB	0.0200	5.12	1
11031	23478-PeCDF	57117-31-4	0.327	JB	0.0201	5.12	1
11031	123478-HxCDF	70648-26-9	0.266	JB	0.0379	5.12	1
11031	123678-HxCDF	57117-44-9	0.241	JB	0.0343	5.12	1
11031	123789-HxCDF	72918-21-9	0.895	JB	0.0395	5.12	1
11031	234678-HxCDF	60851-34-5	0.199	JBQ	0.0350	5.12	1
11031	1234678-HpCDF	67562-39-4	1.79	JB	0.0249	5.12	1
11031	1234789-HpCDF	55673-89-7	0.226	JBQ	0.0396	5.12	1
11031	OCDF	39001-02-0	4.73	JB	0.0425	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305944
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9714 SDG#: DX097-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305944
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:35

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9714 SDG#: DX097-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 16:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305945
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9715 SDG#: DX097-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305945
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9715 SDG#: DX097-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0893	JB	0.0129	1.02	1
11031	12378-PeCDD	40321-76-4	0.410	JBQ	0.0242	5.12	1
11031	123478-HxCDD	39227-28-6	0.544	JB	0.0526	5.12	1
11031	123678-HxCDD	57653-85-7	1.19	JB	0.0550	5.12	1
11031	123789-HxCDD	19408-74-3	1.12	JB	0.0506	5.12	1
11031	1234678-HpCDD	35822-46-9	27.1	B	0.0667	5.12	1
11031	OCDD	3268-87-9	512	B	0.0647	10.2	1
11031	2378-TCDF	51207-31-9	0.102	JBQ	0.0260	1.02	1
11031	12378-PeCDF	57117-41-6	0.364	JB	0.0136	5.12	1
11031	23478-PeCDF	57117-31-4	0.310	JBQ	0.0142	5.12	1
11031	123478-HxCDF	70648-26-9	0.389	JB	0.0309	5.12	1
11031	123678-HxCDF	57117-44-9	0.317	JB	0.0277	5.12	1
11031	123789-HxCDF	72918-21-9	0.297	JB	0.0345	5.12	1
11031	234678-HxCDF	60851-34-5	0.301	JB	0.0296	5.12	1
11031	1234678-HpCDF	67562-39-4	2.51	JB	0.0259	5.12	1
11031	1234789-HpCDF	55673-89-7	0.390	JB	0.0412	5.12	1
11031	OCDF	39001-02-0	6.99	JB	0.0403	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305945
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9715 SDG#: DX097-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-12-SA5DN-QC-060211 Soil
SSFL Area IV Collocated Soil Sampling
DUP-12-SA5DN-QC-060211

LLI Sample # SW 6305945
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 09:45

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9715 SDG#: DX097-15FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 17:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401A	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305946
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9716 SDG#: DX097-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305946
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9716 SDG#: DX097-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0442	JBQ	0.0128	1.00	1
11031	12378-PeCDD	40321-76-4	0.342	JBQ	0.0317	5.00	1
11031	123478-HxCDD	39227-28-6	0.457	JBQ	0.0508	5.00	1
11031	123678-HxCDD	57653-85-7	1.45	JB	0.0531	5.00	1
11031	123789-HxCDD	19408-74-3	1.41	JB	0.0516	5.00	1
11031	1234678-HpCDD	35822-46-9	28.4	B	0.0587	5.00	1
11031	OCDD	3268-87-9	477	B	0.0591	10.0	1
11031	2378-TCDF	51207-31-9	0.144	JB	0.0393	1.00	1
11031	12378-PeCDF	57117-41-6	0.353	JBQ	0.0193	5.00	1
11031	23478-PeCDF	57117-31-4	0.360	JB	0.0186	5.00	1
11031	123478-HxCDF	70648-26-9	0.296	JB	0.0346	5.00	1
11031	123678-HxCDF	57117-44-9	0.236	JB	0.0318	5.00	1
11031	123789-HxCDF	72918-21-9	0.582	JB	0.0337	5.00	1
11031	234678-HxCDF	60851-34-5	0.207	JB	0.0307	5.00	1
11031	1234678-HpCDF	67562-39-4	2.69	JB	0.0237	5.00	1
11031	1234789-HpCDF	55673-89-7	0.286	JB	0.0342	5.00	1
11031	OCDF	39001-02-0	8.25	JB	0.0321	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-145-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305946
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9716 SDG#: DX097-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305946
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9716 SDG#: DX097-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 18:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-149-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305947
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9717 SDG#: DX097-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-149-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305947
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9717 SDG#: DX097-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0443	JBQ	0.0151	1.07	1
11031	12378-PeCDD	40321-76-4	0.247	JB	0.0390	5.34	1
11031	123478-HxCDD	39227-28-6	0.243	JB	0.0393	5.34	1
11031	123678-HxCDD	57653-85-7	1.09	JB	0.0405	5.34	1
11031	123789-HxCDD	19408-74-3	1.40	JB	0.0401	5.34	1
11031	1234678-HpCDD	35822-46-9	13.7	B	0.0478	5.34	1
11031	OCDD	3268-87-9	226	B	0.0528	10.7	1
11031	2378-TCDF	51207-31-9	0.179	JB	0.0483	1.07	1
11031	12378-PeCDF	57117-41-6	0.569	JB	0.0250	5.34	1
11031	23478-PeCDF	57117-31-4	0.394	JB	0.0272	5.34	1
11031	123478-HxCDF	70648-26-9	0.279	JB	0.0381	5.34	1
11031	123678-HxCDF	57117-44-9	0.223	JB	0.0314	5.34	1
11031	123789-HxCDF	72918-21-9	1.32	JB	0.0447	5.34	1
11031	234678-HxCDF	60851-34-5	0.210	JB	0.0346	5.34	1
11031	1234678-HpCDF	67562-39-4	1.72	JB	0.0181	5.34	1
11031	1234789-HpCDF	55673-89-7	0.182	JBQ	0.0361	5.34	1
11031	OCDF	39001-02-0	4.70	JB	0.0453	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305947
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9717 SDG#: DX097-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-149-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305947
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:25

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9717 SDG#: DX097-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 19:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305948
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9718 SDG#: DX097-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305948
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9718 SDG#: DX097-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0512	JB	0.0143	1.07	1
11031	12378-PeCDD	40321-76-4	0.332	JB	0.0390	5.35	1
11031	123478-HxCDD	39227-28-6	0.355	JB	0.0423	5.35	1
11031	123678-HxCDD	57653-85-7	1.49	JB	0.0443	5.35	1
11031	123789-HxCDD	19408-74-3	1.54	JB	0.0429	5.35	1
11031	1234678-HpCDD	35822-46-9	24.1	B	0.0587	5.35	1
11031	OCDD	3268-87-9	377	B	0.0539	10.7	1
11031	2378-TCDF	51207-31-9	0.387	JB	0.0543	1.07	1
11031	12378-PeCDF	57117-41-6	0.688	JB	0.0281	5.35	1
11031	23478-PeCDF	57117-31-4	0.564	JB	0.0286	5.35	1
11031	123478-HxCDF	70648-26-9	0.610	JB	0.0394	5.35	1
11031	123678-HxCDF	57117-44-9	0.384	JB	0.0349	5.35	1
11031	123789-HxCDF	72918-21-9	1.02	JB	0.0409	5.35	1
11031	234678-HxCDF	60851-34-5	0.324	JB	0.0355	5.35	1
11031	1234678-HpCDF	67562-39-4	3.61	JB	0.0210	5.35	1
11031	1234789-HpCDF	55673-89-7	0.294	JB	0.0327	5.35	1
11031	OCDF	39001-02-0	8.38	JB	0.0320	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305948
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9718 SDG#: DX097-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305948
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 15:05

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9718 SDG#: DX097-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 20:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305949
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9719 SDG#: DX097-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305949
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9719 SDG#: DX097-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0237 JBQ	0.0157	1.03	1
11031	12378-PeCDD	40321-76-4	0.194 JBQ	0.0292	5.13	1
11031	123478-HxCDD	39227-28-6	0.138 JB	0.0293	5.13	1
11031	123678-HxCDD	57653-85-7	1.60 JB	0.0302	5.13	1
11031	123789-HxCDD	19408-74-3	2.15 JB	0.0288	5.13	1
11031	1234678-HpCDD	35822-46-9	8.25 B	0.0443	5.13	1
11031	OCDD	3268-87-9	134 B	0.0373	10.3	1
11031	2378-TCDF	51207-31-9	0.0251 JBQ	0.0199	1.03	1
11031	12378-PeCDF	57117-41-6	0.168 JB	0.00966	5.13	1
11031	23478-PeCDF	57117-31-4	0.104 JBQ	0.0105	5.13	1
11031	123478-HxCDF	70648-26-9	0.108 JB	0.0198	5.13	1
11031	123678-HxCDF	57117-44-9	0.175 JBQ	0.0166	5.13	1
11031	123789-HxCDF	72918-21-9	0.664 JB	0.0221	5.13	1
11031	234678-HxCDF	60851-34-5	0.103 JB	0.0181	5.13	1
11031	1234678-HpCDF	67562-39-4	1.58 JB	0.0135	5.13	1
11031	1234789-HpCDF	55673-89-7	0.168 JB	0.0280	5.13	1
11031	OCDF	39001-02-0	5.43 JB	0.0334	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-151-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305949
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9719 SDG#: DX097-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-151-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA5DN-SS-0.0-0.5

LLI Sample # SW 6305949
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 13:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9719 SDG#: DX097-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11167001	06/19/2011 21:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11167001	06/16/2011 11:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11161162401B	06/10/2011 21:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305950
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9720 SDG#: DX097-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.257	U	0.257	2.11	1
10915	12378-PeCDD	40321-76-4	0.443	JBQ	0.273	10.6	1
10915	123478-HxCDD	39227-28-6	0.245	JBQ	0.209	10.6	1
10915	123678-HxCDD	57653-85-7	0.589	JBQ	0.225	10.6	1
10915	123789-HxCDD	19408-74-3	0.504	JBQ	0.218	10.6	1
10915	1234678-HpCDD	35822-46-9	4.81	JBQ	0.302	10.6	1
10915	OCDD	3268-87-9	10.3	JB	0.304	21.1	1
10915	2378-TCDF	51207-31-9	0.256	U	0.256	2.11	1
10915	12378-PeCDF	57117-41-6	0.163	U	0.163	10.6	1
10915	23478-PeCDF	57117-31-4	0.585	JBQ	0.148	10.6	1
10915	123478-HxCDF	70648-26-9	0.417	JBQ	0.165	10.6	1
10915	123678-HxCDF	57117-44-9	0.446	JB	0.164	10.6	1
10915	123789-HxCDF	72918-21-9	0.517	JB	0.178	10.6	1
10915	234678-HxCDF	60851-34-5	0.482	JBQ	0.157	10.6	1
10915	1234678-HpCDF	67562-39-4	1.09	JB	0.136	10.6	1
10915	1234789-HpCDF	55673-89-7	0.694	JB	0.174	10.6	1
10915	OCDF	39001-02-0	1.60	JBQ	0.432	21.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	61	28 - 130
13C12-1234678-HpCDD	53	23 - 140
13C12-OCDD	44	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	43	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB12-SA5DN-SS-060211 Water
SSFL Area IV Collocated Soil Sampling
EB12-SA5DN-SS-060211

LLI Sample # WW 6305950
LLI Group # 1249814
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 12:30

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:02

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9720 SDG#: DX097-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161005	06/15/2011 00:47	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11161005	06/11/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249814
Reported: 06/24/11 at 11:02 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11161162401B	Sample number(s): 6305929,6305942-6305944,6305946-6305949									
Moisture Content by 160.3						100		80-120		
Batch number: 11174162401A	Sample number(s): 6305930-6305941,6305945									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11161005	Sample number(s): 6305950									
2378-TCDD	0.359	J	0.210	2.00	pg/l	94		67-158		
12378-PeCDD	0.608	J	0.242	10.0	pg/l	97		70-142		
123478-HxCDD	0.701	J	0.192	10.0	pg/l	99		70-164		
123678-HxCDD	0.697	J	0.201	10.0	pg/l	100		76-134		
123789-HxCDD	1.10	J	0.200	10.0	pg/l	99		64-162		
1234678-HpCDD	5.46	J	0.278	10.0	pg/l	104		70-140		
OCDD	13.0	J	0.297	20.0	pg/l	106		78-144		
2378-TCDF	0.193	U	0.193	2.00	pg/l	95		75-158		
12378-PeCDF	0.737	J	0.145	10.0	pg/l	99		80-134		
23478-PeCDF	0.940	J	0.137	10.0	pg/l	101		68-160		
123478-HxCDF	0.730	J	0.151	10.0	pg/l	101		72-134		
123678-HxCDF	0.764	J	0.151	10.0	pg/l	99		84-130		
123789-HxCDF	0.850	J	0.155	10.0	pg/l	97		78-130		
234678-HxCDF	0.683	J	0.147	10.0	pg/l	100		70-156		
1234678-HpCDF	1.68	J	0.104	10.0	pg/l	100		82-122		
1234789-HpCDF	1.16	J	0.128	10.0	pg/l	102		78-138		
OCDF	5.00	J	0.345	20.0	pg/l	103		63-170		
Batch number: 11167001	Sample number(s): 6305929-6305949									
2378-TCDD	0.0216	J	0.0147	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0269	J	0.0161	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0367	J	0.0193	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0364	J	0.0201	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0479	J	0.0190	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.320	J	0.0393	5.00	ng/kg	90		70-140		
OCDD	1.42	J	0.0484	10.0	ng/kg	90		78-144		
2378-TCDF	0.0153	J	0.0138	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0222	J	0.00800	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0562	J	0.00810	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0404	J	0.0116	5.00	ng/kg	91		72-134		
123678-HxCDF	0.0281	J	0.00990	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0653	J	0.0130	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0258	J	0.0101	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0999	J	0.0124	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0858	J	0.0205	5.00	ng/kg	92		78-138		
OCDF	0.240	J	0.0340	10.0	ng/kg	93		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249814
Reported: 06/24/11 at 11:02 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11161162401B	Sample number(s): 6305929,6305942-6305944,6305946-6305949					BKG: P305894			
Moisture Content by 160.3						4.8	4.9	0	20
Batch number: 11174162401A	Sample number(s): 6305930-6305941,6305945					BKG: P305886			
Moisture Content by 160.3						2.7	2.6	2	20
Batch number: 11167001	Sample number(s): 6305929-6305949 UNSPK: 6305936								
2378-TCDD	85	84	67-158	3	25				
12378-PeCDD	91	89	70-142	4	25				
123478-HxCDD	91	90	70-164	2	25				
123678-HxCDD	90	89	76-134	2	25				
123789-HxCDD	90	90	64-162	2	25				
1234678-HpCDD	84	84	70-140	1	25				
OCDD	24*	29*	78-144	1	25				
2378-TCDF	91	91	75-158	3	25				
12378-PeCDF	90	91	80-134	1	25				
23478-PeCDF	90	91	68-160	1	25				
123478-HxCDF	91	92	72-134	0	25				
123678-HxCDF	89	91	84-130	1	25				
123789-HxCDF	91	92	78-130	1	25				
234678-HxCDF	93	92	70-156	3	25				
1234678-HpCDF	90	90	82-122	2	25				
1234789-HpCDF	92	91	78-138	2	25				
OCDF	91	92	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11161005

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6305950	63	61	60	60	61	65
Blank	66	65	65	64	68	71
OPR	69	69	72	71	71	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6305950	54	49	43	82	60	62

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249814
Reported: 06/24/11 at 11:02 PM

Surrogate Quality Control

Blank	59	57	46	84	65	64
OPR	63	60	48	85	70	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6305950	59	61	53	44	63	60
Blank	65	63	57	46	69	64
OPR	71	71	61	49	69	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11167001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6305929	74	72	61	67	74	78
6305930	77	72	63	72	74	78
6305931	77	73	70	75	74	79
6305932	77	75	72	77	73	80
6305933	77	73	58	66	75	81
6305934	83	78	75	80	79	85
6305935	79	75	72	77	76	77
6305936	78	73	71	76	73	75
6305937	76	74	72	77	73	78
6305938	76	72	72	78	72	74
6305939	74	70	70	78	71	72
6305940	74	68	71	79	72	73
6305941	77	72	71	73	70	76
6305942	76	72	72	73	73	78
6305943	86	81	85	88	85	84
6305944	77	73	72	78	73	75
6305945	77	73	71	78	74	76
6305946	76	72	72	75	74	79
6305947	70	65	65	75	66	61
6305948	77	72	70	77	73	74
6305949	67	65	62	72	65	63
Blank	76	71	70	81	76	71
MS	76	74	72	77	73	78
MSD	76	72	72	78	72	74
OPR	68	64	63	74	68	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6305929	76	70	65	88	77	78
6305930	81	68	63	87	76	78
6305931	85	70	67	89	78	78
6305932	85	72	69	90	80	79
6305933	74	74	68	87	77	80
6305934	89	76	69	96	84	84
6305935	86	73	66	89	80	80
6305936	84	68	65	90	78	78
6305937	84	70	62	88	78	78

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249814
Reported: 06/24/11 at 11:02 PM

Surrogate Quality Control

6305938	87	66	61	87	79	77
6305939	91	64	57	88	77	78
6305940	89	65	60	87	76	81
6305941	80	70	66	87	75	73
6305942	75	74	67	85	74	75
6305943	94	82	79	97	85	90
6305944	91	68	61	89	78	78
6305945	92	70	63	87	78	80
6305946	80	70	64	85	75	77
6305947	89	54	45	84	72	73
6305948	87	65	56	88	77	78
6305949	90	53	44	78	71	72
Blank	97	69	63	97	80	87
MS	84	70	62	88	78	78
MSD	87	66	61	87	79	77
OPR	93	60	54	90	74	77
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6305929	76	80	80	79	70	76
6305930	77	79	80	79	72	78
6305931	77	78	80	78	72	79
6305932	76	79	81	80	72	78
6305933	77	80	80	79	73	77
6305934	81	84	86	79	79	85
6305935	77	80	81	78	74	80
6305936	76	78	79	76	71	78
6305937	75	79	78	72	72	80
6305938	77	78	77	73	71	79
6305939	74	77	78	73	67	78
6305940	77	79	80	79	69	77
6305941	72	74	76	74	71	75
6305942	72	75	76	71	73	73
6305943	86	88	89	89	83	85
6305944	78	80	81	76	72	79
6305945	77	80	83	78	71	81
6305946	73	76	76	71	73	75
6305947	72	73	72	65	64	76
6305948	74	77	75	69	73	79
6305949	69	72	72	64	61	73
Blank	83	87	88	81	66	78
MS	75	79	78	72	72	80
MSD	77	78	77	73	71	79
OPR	77	78	81	76	58	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp# 1249814 Sample# 6305929-50

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Modified	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-131-SA5DN-SS-0.0-0.5	6/2/11	0925	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-131-SA5DN-SS-0.0-0.5	6/2/11	0925	SOIL	NONE	1-SS sleeve			X	X																	
SL-132-SA5DN-SS-0.0-0.5	6/2/11	1110	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SL-132-SA5DN-SS-0.0-0.5	6/2/11	1110	SOIL	NONE	1-SS sleeve			X	X																	
SL-133-SA5DN-SS-0.0-0.5	6/2/11	1050	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-133-SA5DN-SS-0.0-0.5	6/2/11	1050	SOIL	NONE	1-SS sleeve			X	X																	
SL-134-SA5DN-SS-0.0-0.5	6/2/11	0845	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-134-SA5DN-SS-0.0-0.5	6/2/11	0845	SOIL	NONE	1-SS sleeve			X	X																	
SL-135-SA5DN-SS-0.0-0.5	6/2/11	0900	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-135-SA5DN-SS-0.0-0.5	6/2/11	0900	SOIL	NONE	2-SS sleeves			X	X																	
SL-136-SA5DN-SS-0.0-0.5	6/2/11	0825	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-136-SA5DN-SS-0.0-0.5	6/2/11	0825	SOIL	NONE	1-SS sleeve			X	X																	
SL-137-SA5DN-SS-0.0-0.5	6/2/11	0915	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-137-SA5DN-SS-0.0-0.5	6/2/11	0915	SOIL	NONE	1-SS sleeve			X	X																	
SL-138-SA5DN-SS-0.0-0.5MS	6/2/11	0930	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	MS/MSD sample
SL-138-SA5DN-SS-0.0-0.5MS	6/2/11	0930	SOIL	NONE	2-SS sleeve			X	X																	MS/MSD sample
SL-139-SA5DN-SS-0.0-0.5	6/2/11	1010	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-139-SA5DN-SS-0.0-0.5	6/2/11	1010	SOIL	NONE	1-SS sleeve			X	X																	
SL-140-SA5DN-SS-0.0-0.5	6/2/11	1030	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-140-SA5DN-SS-0.0-0.5	6/2/11	1030	SOIL	NONE	1-SS sleeve			X	X																	
SL-141-SA5DN-SS-0.0-0.5	6/2/11	1315	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-141-SA5DN-SS-0.0-0.5	6/2/11	1315	SOIL	NONE	1-SS sleeve			X	X																	
SL-142-SA5DN-SS-0.0-0.5	6/2/11	1415	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-142-SA5DN-SS-0.0-0.5	6/2/11	1415	SOIL	NONE	1-SS sleeve			X	X																	
SL-143-SA5DN-SS-0.0-0.5	6/2/11	1335	SOIL	NONE	1-16 oz jars	X	X	X	X	X	X	X	X		X	X										
SL-143-SA5DN-SS-0.0-0.5	6/2/11	1335	SOIL	NONE	1-SS sleeve			X	X																	
SL-144-SA5DN-SS-0.0-0.5	6/2/11	1435	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X										
SL-144-SA5DN-SS-0.0-0.5	6/2/11	1435	SOIL	NONE	1-SS sleeve			X	X																	
DUP-12-SA5DN-QC-060211	6/2/11	0945	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
DUP-12-SA5DN-QC-060211	6/2/11	0945	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/02/2011 / 1700	6/3/11 1015	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9051; 8754 3339 9062 8754 3339 9073; 8754 3339 9084 8754 3339 9095	

acct#13013 Cap# 1249814 Sample# 6305929-50

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
Samplers Signatures:																										
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																					
SL-145-SA5DN-SS-0.0-0.5	6/2/11	1450	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-145-SA5DN-SS-0.0-0.5	6/2/11	1450	SOIL	NONE	1-SS sleeve			X	X																	
SL-149-SA5DN-SS-0.0-0.5	6/2/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X	X	X	X										
SL-149-SA5DN-SS-0.0-0.5	6/2/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-150-SA5DN-SS-0.0-0.5	6/2/11	1605	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-150-SA5DN-SS-0.0-0.5	6/2/11	1605	SOIL	NONE	1-SS sleeve			X	X																	
SL-151-SA5DN-SS-0.0-0.5	6/2/11	1350	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-151-SA5DN-SS-0.0-0.5	6/2/11	1350	SOIL	NONE	1-SS sleeve			X	X																	
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NONE	12-1 liter ambers			X	X	X					X	X	X				X	X		X		
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	HNO3	1-500 mL poly	X																				
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NONE	1-500 mL poly		X				X	X	X													
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NaOH	1-500 mL glass																	X				
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	None	1-250 mL glass														X							
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	HCl	2-40 mL vial																				X	
EB12-SA5DN-SS-060211	6/2/11	1230	WATER	NONE	4-40 mL vial													X						X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/02/2011 / 1700	6/3/11 1015	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8754 3339 9051; 8754 3339 9062 8754 3339 9073; 8754 3339 9084 8754 3339 9095	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/03/2011
Group Number: 1249816
SDG: DE172
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-016-SA5DN-SB-4.0-5.0 Soil	6305964
SL-016-SA5DN-SB-12.0-13.0 Soil	6305965
SL-021-SA5DN-SB-4.0-5.0 Soil	6305966
SL-021-SA5DN-SB-19.5-20.5 Soil	6305967
TB-060211 Water	6305968

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17201 SDG#: DE172-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.2		7.2	8.7		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.92
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.92
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.92
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.92
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.92
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.92
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.92
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.92
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.92
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.92
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.92
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.92
06192	Methylene Chloride	75-09-2	2.0	J	0.26	4.3		0.92
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.92

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17201 SDG#: DE172-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.92
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.92
06192	Toluene	108-88-3	0.09	U	0.09	4.3		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.92
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.39
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	197	U	197	393		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	26	J	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1

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Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17201 SDG#: DE172-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	450		16	39		20
10138	Acenaphthylene	208-96-8	92		7.9	39		20
10138	Anthracene	120-12-7	3,400		7.9	39		20
10138	Benzo(a)anthracene	56-55-3	10,000		310	790		400
10138	Benzo(a)pyrene	50-32-8	8,500		310	790		400
10138	Benzo(b)fluoranthene	205-99-2	12,000		310	790		400
10138	Benzo(g,h,i)perylene	191-24-2	4,900		16	39		20
10138	Benzo(k)fluoranthene	207-08-9	7,300		16	39		20
10138	Butylbenzylphthalate	85-68-7	140	U	140	420		20
10138	Di-n-butylphthalate	84-74-2	140	U	140	420		20
10138	Chrysene	218-01-9	12,000		160	790		400
10138	Dibenz(a,h)anthracene	53-70-3	1,900		16	39		20
10138	Diethylphthalate	84-66-2	140	U	140	420		20
10138	Dimethylphthalate	131-11-3	140	U	140	420		20

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17201 SDG#: DE172-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	16,000		310	790		400
10138	Fluorene	86-73-7	290		16	39		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5,200		16	39		20
10138	1-Methylnaphthalene	90-12-0	16	U	16	39		20
10138	2-Methylnaphthalene	91-57-6	16	U	16	39		20
10138	Naphthalene	91-20-3	43		16	39		20
10138	N-Nitrosodimethylamine	62-75-9	16	U	16	39		20
10138	Di-n-octylphthalate	117-84-0	140	U	140	420		20
10138	Phenanthrene	85-01-8	4,200		16	39		20
10138	Pyrene	129-00-0	15,000		310	790		400
Reporting limits were raised due to interference from the sample matrix.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	8.3		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	13		0.39	2.0		1
10225	PCB-1260	11096-82-5	2.3		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.7	U	4.7	14		10
10199	EFH (C15-C20)	n.a.	70		4.7	14		10
10199	EFH (C21-C30)	n.a.	540		4.7	14		10
10199	EFH (C30 - C40)	n.a.	290		4.7	14		10
10199	EFH (C8-C11)	n.a.	4.7	U	4.7	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17201 SDG#: DE172-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,500		5.76	22.9		1
07914	Boron	7440-42-8	18.0		1.02	5.72		1
01650	Calcium	7440-70-2	14,500		7.02	22.9		1
01654	Iron	7439-89-6	32,500		27.0	114		5
01656	Lithium	7439-93-2	27.5		0.25	2.3		1
01657	Magnesium	7439-95-4	6,950		2.91	11.4		1
06958	Manganese	7439-96-5	393		0.0893	0.572		1
10145	Phosphorus	7723-14-0	275		0.641	11.4		1
01662	Potassium	7440-09-7	3,770		20.6	57.2		1
01667	Sodium	7440-23-5	428		42.7	114		1
07968	Strontium	7440-24-6	44.5		0.0710	0.572		1
06969	Tin	7440-31-5	3.01	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,540		0.435	1.14		1
10146	Zirconium	7440-67-7	3.45	J	0.962	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.225	J	0.0694	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.10		0.0925	0.462		2
06126	Barium	7440-39-3	143		0.125	0.462		2
06127	Beryllium	7440-41-7	0.852		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.233		0.0462	0.116		2
06131	Chromium	7440-47-3	30.2		0.139	0.462		2
06132	Cobalt	7440-48-4	10.5		0.0231	0.116		2
06133	Copper	7440-50-8	15.2		0.0763	0.462		2
06135	Lead	7439-92-1	10.7		0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.486		0.0578	0.116		2
06139	Nickel	7440-02-0	21.6		0.116	0.462		2
06141	Selenium	7782-49-2	0.0961	J	0.0462	0.462		2
06142	Silver	7440-22-4	0.0556	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.327		0.0347	0.116		2
06148	Vanadium	7440-62-2	60.7		0.0254	0.116		2
06149	Zinc	7440-66-6	67.9		0.647	3.47		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.94	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17201 SDG#: DE172-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-016-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 10:11	Holly Berry	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 14:30	Jason M Long	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115424575	06/03/2011 13:53	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115424575	06/03/2011 13:41	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/28/2011 11:00	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 08:08	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLC026	06/17/2011 13:09	Joseph M Gambler	20

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LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17201 SDG#: DE172-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLC026	06/18/2011 06:13	Joseph M Gambler	400
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLC026	06/16/2011 18:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011 19:19	Elizabeth J Marin	20.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:40	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 19:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 19:46	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 17:29	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 15:43	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111540022A	06/04/2011 02:46	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 18:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 06:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111540022A	06/03/2011 17:30	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 18:54	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 14:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 14:29	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 18:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:11	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2

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Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305964
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17201 SDG#: DE172-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:11	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:11	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:11	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621202A	06/18/2011 21:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621202A	06/18/2011 21:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202A	06/18/2011 16:49	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 16:10	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621202A	06/17/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202A	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17202 SDG#: DE172-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.6	J	8.1	9.6		1.07
06192	Benzene	71-43-2	0.12	U	0.12	4.8		1.07
06192	Bromobenzene	108-86-1	0.16	U	0.16	4.8		1.07
06192	Bromochloromethane	74-97-5	0.40	U	0.40	4.8		1.07
06192	Bromodichloromethane	75-27-4	0.1	U	0.1	4.8		1.07
06192	Bromoform	75-25-2	0.48	U	0.48	4.8		1.07
06192	Bromomethane	74-83-9	0.30	U	0.30	4.8		1.07
06192	2-Butanone	78-93-3	1.5	U	1.5	9.6		1.07
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.8		1.07
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.8		1.07
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.8		1.07
06192	Carbon Tetrachloride	56-23-5	0.17	U	0.17	4.8		1.07
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.8		1.07
06192	Chloroethane	75-00-3	0.16	U	0.16	4.8		1.07
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.36	U	0.36	4.8		1.07
06192	Chloroform	67-66-3	0.14	U	0.14	4.8		1.07
06192	Chloromethane	74-87-3	0.40	U	0.40	4.8		1.07
06192	2-Chlorotoluene	95-49-8	0.17	U	0.17	4.8		1.07
06192	4-Chlorotoluene	106-43-4	0.17	U	0.17	4.8		1.07
06192	Chlorotrifluoroethene	79-38-9	0.60	U	0.60	6.0		1.07
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.84	U	0.84	4.8		1.07
06192	Dibromochloromethane	124-48-1	0.24	U	0.24	4.8		1.07
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.8		1.07
06192	Dibromomethane	74-95-3	0.29	U	0.29	4.8		1.07
06192	1,2-Dichlorobenzene	95-50-1	0.11	U	0.11	4.8		1.07
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.8		1.07
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.8		1.07
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.8		1.07
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.8		1.07
06192	1,2-Dichloroethane	107-06-2	0.18	U	0.18	4.8		1.07
06192	1,1-Dichloroethene	75-35-4	0.47	U	0.47	4.8		1.07
06192	cis-1,2-Dichloroethene	156-59-2	0.23	U	0.23	4.8		1.07
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.8		1.07
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.8		1.07
06192	1,3-Dichloropropane	142-28-9	0.1	U	0.1	4.8		1.07
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.8		1.07
06192	1,1-Dichloropropene	563-58-6	0.16	U	0.16	4.8		1.07
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.8		1.07
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.8		1.07
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.8		1.07
06192	Freon 113	76-13-1	0.13	U	0.13	4.8		1.07
06192	Freon 133a	75-88-7	0.60	U	0.60	6.0		1.07
06192	Hexachlorobutadiene	87-68-3	0.17	U	0.17	4.8		1.07
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.6		1.07
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.8		1.07
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.8		1.07
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.25	U	0.25	4.8		1.07
06192	4-Methyl-2-pentanone	108-10-1	0.47	U	0.47	9.6		1.07
06192	Methylene Chloride	75-09-2	1.9	J	0.29	4.8		1.07
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.8		1.07

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Sample Description: SL-016-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
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17202 SDG#: DE172-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.8		1.07
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.8		1.07
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28	U	0.28	4.8		1.07
06192	Tetrachloroethene	127-18-4	0.24	U	0.24	4.8		1.07
06192	Toluene	108-88-3	0.1	U	0.1	4.8		1.07
06192	1,2,3-Trichlorobenzene	87-61-6	0.17	U	0.17	4.8		1.07
06192	1,2,4-Trichlorobenzene	120-82-1	0.22	U	0.22	4.8		1.07
06192	1,1,1-Trichloroethane	71-55-6	0.24	U	0.24	4.8		1.07
06192	1,1,2-Trichloroethane	79-00-5	0.33	U	0.33	4.8		1.07
06192	Trichloroethene	79-01-6	0.18	U	0.18	4.8		1.07
06192	Trichlorofluoromethane	75-69-4	0.35	U	0.35	4.8		1.07
06192	1,2,3-Trichloropropane	96-18-4	0.40	U	0.40	4.8		1.07
06192	1,2,4-Trimethylbenzene	95-63-6	0.48	U	0.48	4.8		1.07
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.8		1.07
06192	Vinyl Chloride	75-01-4	0.24	U	0.24	4.8		1.07
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.8		1.07
06192	o-Xylene	95-47-6	0.20	U	0.20	4.8		1.07
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		21.37
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	36.9	J	18.9	37.7		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

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Reported: 07/01/2011 15:06

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17202 SDG#: DE172-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	5.4		0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	18		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	51		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	37		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	49		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	13		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	20		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	56		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	5.1		0.75	1.9		1

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Sample Description: SL-016-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17202 SDG#: DE172-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	92		0.75	1.9		1
10138	Fluorene	86-73-7	4.6		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	13		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	47		0.75	1.9		1
10138	Pyrene	129-00-0	86		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17202 SDG#: DE172-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.3	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	7.0		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	460	J	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17202 SDG#: DE172-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,200		5.69	22.6		1
07914	Boron	7440-42-8	15.3		0.997	5.60		1
01650	Calcium	7440-70-2	22,400		6.87	22.4		1
01654	Iron	7439-89-6	35,700		26.4	112		5
01656	Lithium	7439-93-2	29.0		0.25	2.2		1
01657	Magnesium	7439-95-4	6,810		2.84	11.2		1
06958	Manganese	7439-96-5	905		0.0874	0.560		1
10145	Phosphorus	7723-14-0	557		0.627	11.2		1
01662	Potassium	7440-09-7	3,290		20.2	56.0		1
01667	Sodium	7440-23-5	369		41.8	112		1
07968	Strontium	7440-24-6	58.4		0.0694	0.560		1
06969	Tin	7440-31-5	3.12	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,390		0.430	1.13		1
10146	Zirconium	7440-67-7	0.997	J	0.941	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0659	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.76		0.0879	0.439		2
06126	Barium	7440-39-3	104		0.119	0.439		2
06127	Beryllium	7440-41-7	0.607		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.300		0.0439	0.110		2
06131	Chromium	7440-47-3	23.9		0.132	0.439		2
06132	Cobalt	7440-48-4	3.81		0.0220	0.110		2
06133	Copper	7440-50-8	13.3		0.0725	0.439		2
06135	Lead	7439-92-1	5.88		0.0114	0.220		2
06138	Molybdenum	7439-98-7	0.181		0.0549	0.110		2
06139	Nickel	7440-02-0	14.0		0.110	0.439		2
06141	Selenium	7782-49-2	0.0551	J	0.0439	0.439		2
06142	Silver	7440-22-4	0.0715	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.284		0.0329	0.110		2
06148	Vanadium	7440-62-2	41.3		0.0242	0.110		2
06149	Zinc	7440-66-6	57.0		0.615	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

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SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17202 SDG#: DE172-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-016-SA5DN-SB-12.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011	10:34	Holly Berry	1.07
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011	11:50	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011	13:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115424575	06/03/2011	13:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115424575	06/03/2011	13:53	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115424575	06/03/2011	13:44	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/28/2011	11:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011	08:34	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLC026	06/17/2011	13:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011	14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLC026	06/16/2011	18:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11166SLA026	06/15/2011	18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011	19:56	Elizabeth J Marin	20.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011	13:43	Christopher D Meeks	n.a.

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17202 SDG#: DE172-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 20:38	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 19:56	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 17:48	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 11:53	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 21:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 18:26	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 02:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 18:58	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 14:40	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 14:44	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 18:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:14	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:14	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-016-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305965
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17202 SDG#: DE172-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621202A	06/18/2011 22:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621202A	06/18/2011 22:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202A	06/18/2011 17:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 16:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:58	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621202A	06/17/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202A	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6	U	7.6	9.1		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.99
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		0.99
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.99
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.99
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.99
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.99
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		0.99
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		0.99
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.99
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.99
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.99
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		0.99
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		0.99
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.99
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.99
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.99
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		0.99
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		0.99
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.99
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.99
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.99
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.99
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		0.99
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.99
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.99
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.99
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.99
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.99
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		0.99
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.99
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		0.99
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		0.99
06192	Methylene Chloride	75-09-2	2.2	J	0.27	4.5		0.99
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.99

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.99
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		0.99
06192	Toluene	108-88-3	0.1	J	0.09	4.5		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		0.99
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.99
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.99
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		0.99
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.99
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.99
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	190	U	190	380		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	1.4	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	12		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	9.0		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	12		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.9		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	5.2		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	13		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	12		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	1.9	J	0.76	1.9		1
10138	Pyrene	129-00-0	14		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.54
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	3.7		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	3.0		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	5.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,700		5.62	22.3		1
07914	Boron	7440-42-8	18.5		0.994	5.58		1
01650	Calcium	7440-70-2	14,500		6.84	22.3		1
01654	Iron	7439-89-6	33,000		26.3	112		5
01656	Lithium	7439-93-2	28.4		0.25	2.2		1
01657	Magnesium	7439-95-4	7,370		2.84	11.2		1
06958	Manganese	7439-96-5	383		0.0871	0.558		1
10145	Phosphorus	7723-14-0	321		0.625	11.2		1
01662	Potassium	7440-09-7	4,110		20.1	55.8		1
01667	Sodium	7440-23-5	517		41.6	112		1
07968	Strontium	7440-24-6	49.3		0.0692	0.558		1
06969	Tin	7440-31-5	2.95	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,540		0.424	1.12		1
10146	Zirconium	7440-67-7	3.49	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.290		0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.58		0.0893	0.447		2
06126	Barium	7440-39-3	154		0.121	0.447		2
06127	Beryllium	7440-41-7	0.802		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.296		0.0447	0.112		2
06131	Chromium	7440-47-3	30.7		0.134	0.447		2
06132	Cobalt	7440-48-4	10.3		0.0223	0.112		2
06133	Copper	7440-50-8	16.1		0.0737	0.447		2
06135	Lead	7439-92-1	9.92		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.482		0.0558	0.112		2
06139	Nickel	7440-02-0	22.4		0.112	0.447		2
06141	Selenium	7782-49-2	0.112	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0478	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.315		0.0335	0.112		2
06148	Vanadium	7440-62-2	59.1		0.0246	0.112		2
06149	Zinc	7440-66-6	87.0		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.3		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.23	1.1		1

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Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.72	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 10:56	Holly Berry	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 12:10	Jason M Long	22.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115424575	06/03/2011 13:54	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115424575	06/03/2011 13:47	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/28/2011 12:10	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 09:01	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLC026	06/17/2011 14:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLC026	06/16/2011 18:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011 16:18	Elizabeth J Marin	23.54
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:46	Christopher D Meeks	n.a.

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Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 21:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 20:05	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 18:43	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 12:18	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 22:06	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 18:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 03:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:02	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 14:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/09/2011 14:52	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:48	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:17	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:17	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2

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Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305966
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17203 SDG#: DE172-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621202A	06/18/2011 22:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621202A	06/18/2011 22:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 17:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 16:27	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 17:59	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621202A	06/17/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039402B	06/07/2011 13:30	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.2		7.0	8.4		0.94
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.94
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.94
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.94
06192	Methylene Chloride	75-09-2	2.2	J	0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.94

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	371		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	2.0		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	12		0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	8.3		0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.3		0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.0		0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	14		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	1.3	J	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	17		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5		0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	2.7		0.74	1.9		1
10138	Pyrene	129-00-0	17		0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.94
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1

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Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	210	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,500		5.60	22.3		1
07914	Boron	7440-42-8	12.5		0.962	5.41		1
01650	Calcium	7440-70-2	5,240		6.63	21.6		1
01654	Iron	7439-89-6	27,200		5.09	21.6		1
01656	Lithium	7439-93-2	27.9		0.24	2.2		1
01657	Magnesium	7439-95-4	5,700		2.75	10.8		1
06958	Manganese	7439-96-5	390		0.0843	0.541		1
10145	Phosphorus	7723-14-0	325		0.605	10.8		1
01662	Potassium	7440-09-7	2,960		19.5	54.1		1
01667	Sodium	7440-23-5	260		40.3	108		1
07968	Strontium	7440-24-6	38.6		0.0670	0.541		1
06969	Tin	7440-31-5	2.82	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,470		0.423	1.11		1
10146	Zirconium	7440-67-7	2.35	J	0.908	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.171	J	0.0642	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.14		0.0857	0.428		2
06126	Barium	7440-39-3	92.8		0.116	0.428		2
06127	Beryllium	7440-41-7	0.598		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.124		0.0428	0.107		2
06131	Chromium	7440-47-3	21.8		0.128	0.428		2
06132	Cobalt	7440-48-4	7.04		0.0214	0.107		2
06133	Copper	7440-50-8	10.1		0.0707	0.428		2
06135	Lead	7439-92-1	6.50		0.0111	0.214		2
06138	Molybdenum	7439-98-7	0.488		0.0535	0.107		2
06139	Nickel	7440-02-0	15.9		0.107	0.428		2
06141	Selenium	7782-49-2	0.0455	J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0254	J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.252		0.0321	0.107		2
06148	Vanadium	7440-62-2	44.0		0.0236	0.107		2
06149	Zinc	7440-66-6	56.7		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.2		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.77		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-021-SA5DN-SB-20.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111572AA	06/07/2011 11:19	Holly Berry	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 12:30	Jason M Long	23.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115424575	06/03/2011 13:54	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115424575	06/03/2011 13:50	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/30/2011 10:27	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 09:27	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLC026	06/17/2011 14:50	Joseph M Gambler	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLC026	06/16/2011 18:30	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	2	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011 20:32	Elizabeth J Marin	22.94
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115424575	06/03/2011 13:49	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/18/2011 23:27	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 20:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111610011A	06/14/2011 19:02	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111610011A	06/11/2011 08:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 08:34	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 22:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 18:51	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/14/2011 20:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111595708002	06/09/2011 19:06	John P Hook	1
07914	Boron	SW-846 6010B	1	111585708002	06/09/2011 14:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111595708002	06/09/2011 19:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111585708002	06/08/2011 06:53	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06126	Barium	SW-846 6020	1	111581026004D	06/11/2011 05:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06131	Chromium	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06133	Copper	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2

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Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305967
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17204 SDG#: DE172-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	111581026004C	06/11/2011 05:20	David K Beck	2
06139	Nickel	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06141	Selenium	SW-846 6020	1	111581026004B	06/11/2011 05:20	David K Beck	2
06142	Silver	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06145	Thallium	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
06149	Zinc	SW-846 6020	1	111581026004A	06/11/2011 05:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	111585711003	06/08/2011 14:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111585708002	06/07/2011 21:58	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111595708002	06/08/2011 20:45	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111581026004	06/07/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111585711003	06/07/2011 12:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621202A	06/18/2011 21:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621202A	06/18/2011 21:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11166621202B	06/18/2011 19:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 16:38	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11159102201A	06/08/2011 18:00	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621202A	06/17/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11166621202B	06/15/2011 09:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11159102201A	06/08/2011 09:15	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-060211 Water
SSFL Area IV Collocated Soil Sampling
TB-060211

LLI Sample # WW 6305968
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:30

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17205 SDG#: DE172-05TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-060211 Water
SSFL Area IV Collocated Soil Sampling
TB-060211

LLI Sample # WW 6305968
LLI Group # 1249816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:30

Submitted: 06/03/2011 10:15
Reported: 07/01/2011 15:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17205 SDG#: DE172-05TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111582AA	06/07/2011 23:25	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111571AA	06/06/2011 11:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111571AA	06/06/2011 11:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111582AA	06/07/2011 23:25	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11157A20A	06/07/2011 16:10	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11157A20A	06/07/2011 16:10	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
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Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111572AA	Sample number(s): 6305964-6305967									
Acetone	8.4		6.7	8.0	ug/kg	113		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	103		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	104		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	106		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	105		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	103		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	110		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	106		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	75		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	89		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	106		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	103		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	84		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	113		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	106		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	108		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	107		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	105		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	98		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	108		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	111		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	105		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108		61-134		
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	113		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	105		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	108		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	106		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	99		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	99		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	94		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	108		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	104		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	103		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	107		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	110		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	108		80-120		
Batch number: E111571AA	Sample number(s): 6305968									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	106	80-123	6	30
Batch number: E111581AA	Sample number(s): 6305964-6305967									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	115	70-130	9	30
Batch number: L111582AA	Sample number(s): 6305968									
Acetone	6	U	6.	20	ug/l	119	101	49-234	16	30
Benzene	0.5	U	0.5	5	ug/l	99	98	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	92	94	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	98	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	91	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	79	78	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	101	103	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	92	87	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	97	99	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	94	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	95	96	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	90	94	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	85	86	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	99	99	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	90	97	60-129	7	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	97	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	58	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	79	84	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	87	87	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	95	95	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	91	93	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	85	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	97	79-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	101	101	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	95	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	94	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	92	93	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	94	93	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	99	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	94	94	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	88	89	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	96	98	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	100	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	88	58-120	5	30
2-Hexanone	3	U	3.	10	ug/l	85	83	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	90	92	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	81	82	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	95	96	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	92	95	80-120	3	30
Styrene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	91	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	93	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	95	94	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	98	97	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	85	89	65-120	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	81	85	67-120	5	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	94	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	95	95	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	100	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	93	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	92	96	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	96	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
Batch number: 11160SLB026	Sample number(s): 6305964-6305967									
N-Nitrosodimethylamine	18.9	J	16.7	33.3	ng/kg	105		70-130		
Batch number: 11166SLA026	Sample number(s): 6305964-6305967									
Aniline	170 U		170.	500	ug/kg	60		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzoic acid	170 U		170.	500	ug/kg	93		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Carbazole	17	U	17.	170	ug/kg	87		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	91		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	89		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	21	J	17.	330	ug/kg	110		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	76		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	90		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11167SLC026	Sample number(s): 6305964-6305967									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	84		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	78		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	87		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	93		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	105		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	97		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	102		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	90		68-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	81		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	82		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	115		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	87		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 11157A20A	Sample number(s): 6305968									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 11157A34A	Sample number(s): 6305964-6305967									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	83	95	67-119	13	30
Batch number: 111670008A	Sample number(s): 6305964-6305967									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	122*		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	125*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	105	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	105	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	128		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	121		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	123*		80-120		
HMX	100 U		100.	300	ug/kg	108		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	127*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	92		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	118		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	125		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	116		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	109		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	118		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	128*		80-120		
Batch number: 111590006A	Sample number(s): 6305964-6305967									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 111610011A	Sample number(s): 6305964-6305967									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	148*	101	36-106	38*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	96		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	120		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111580028A	Sample number(s): 6305964-6305967									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	105		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	108		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	88		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	101		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 111540022A	Sample number(s): 6305964									
Ethanol	100	U	100.	500	ug/kg	89		71-129		
Isopropanol	100	U	100.	500	ug/kg	85		75-125		
Methanol	100	U	100.	500	ug/kg	89		68-129		
Batch number: 111570001A	Sample number(s): 6305964-6305967									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111580038A	Sample number(s): 6305965-6305967									
Ethanol	100	U	100.	500	ug/kg	89		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 111590037A	Sample number(s): 6305964-6305967									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111581026004A	Sample number(s): 6305964-6305967									
Antimony	0.0600	U	0.0600	0.200	mg/kg	132		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	107		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	111		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		82-118		
Copper	0.152	J	0.0660	0.400	mg/kg	96		83-110		
Lead	0.0660	J	0.0104	0.200	mg/kg	98		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	105		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	104		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	99		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	104		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	108		81-112		
Batch number: 111581026004B	Sample number(s): 6305964-6305967									
Selenium	0.0400	U	0.0400	0.400	mg/kg	102		83-111		
Batch number: 111581026004C	Sample number(s): 6305964-6305967									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	114		78-122		
Batch number: 111581026004D	Sample number(s): 6305964-6305967									
Barium	0.108	U	0.108	0.400	mg/kg	108		81-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111585708002	Sample number(s): 6305964-6305967								
Boron	0.890 U	0.890	5.00	mg/kg	103		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	108		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	105		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	104		89-112		
Phosphorus	1.09 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	107		78-110		
Sodium	37.3 U	37.3	100	mg/kg	101		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	101		86-110		
Tin	1.28 J	1.00	10.0	mg/kg	102		90-114		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 111585711003	Sample number(s): 6305964-6305967								
Mercury	0.0028 U	0.0028	0.0969	mg/kg	101		88-123		
Batch number: 111595708002	Sample number(s): 6305964-6305967								
Aluminum	5.03 U	5.03	20.0	mg/kg	107		61-110		
Titanium	0.380 U	0.380	1.00	mg/kg	115		80-120		
Batch number: 11159102201A	Sample number(s): 6305964-6305967								
17a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11164243201A	Sample number(s): 6305964-6305967								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	101		80-120		
Batch number: 11166621202A	Sample number(s): 6305964-6305965								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11166621202B	Sample number(s): 6305966-6305967								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	97		85-115		
Batch number: 11168621202A	Sample number(s): 6305964-6305967								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11158039402B	Sample number(s): 6305964-6305966								
18a pH by 9045C					100		95-105		
Batch number: 11158039403A	Sample number(s): 6305967								
18a pH by 9045C					100		95-105		
Batch number: 11174162401B	Sample number(s): 6305964-6305967								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111572AA	Sample number(s): 6305964-6305967 UNSPK: P302747								
Acetone	87	95	15-210	10	30				
Benzene	117	112	55-143	25	30				
Bromobenzene	111	104	43-139	26	30				
Bromochloromethane	113	112	60-137	21	30				
Bromodichloromethane	106	105	53-136	21	30				
Bromoform	95	97	38-124	18	30				
Bromomethane	91	86	42-168	26	30				
2-Butanone	83	93	37-163	9	30				
n-Butylbenzene	121	104	30-146	35*	30				
sec-Butylbenzene	120	106	33-157	32*	30				
tert-Butylbenzene	117	105	41-152	31*	30				
Carbon Tetrachloride	125	118	45-153	27	30				
Chlorobenzene	116	108	49-135	27	30				
Chloroethane	85	79	39-152	27	30				
2-Chloroethyl Vinyl Ether	81	87	32-139	12	30				
Chloroform	116	112	61-142	24	30				
Chloromethane	100	96	51-163	25	30				
2-Chlorotoluene	114	103	42-146	30	30				
4-Chlorotoluene	117	105	39-145	31*	30				
Chlorotrifluoroethene	68*	80	70-130	5	30				
1,2-Dibromo-3-chloropropane	83	97	30-139	4	30				
Dibromochloromethane	102	103	51-128	19	30				
1,2-Dibromoethane	102	101	54-129	21	30				
Dibromomethane	99	102	57-130	17	30				
1,2-Dichlorobenzene	112	104	36-133	27	30				
1,3-Dichlorobenzene	112	102	34-134	29	30				
1,4-Dichlorobenzene	111	102	35-136	29	30				
Dichlorodifluoromethane	97	89	26-151	28	30				
1,1-Dichloroethane	118	114	63-142	24	30				
1,2-Dichloroethane	112	114	68-131	19	30				
1,1-Dichloroethene	130	124	61-149	25	30				
cis-1,2-Dichloroethene	113	109	60-136	24	30				
trans-1,2-Dichloroethene	115	112	59-142	23	30				
1,2-Dichloropropane	108	107	62-135	21	30				
1,3-Dichloropropane	104	106	58-129	18	30				
2,2-Dichloropropane	120	116	53-147	24	30				
1,1-Dichloropropene	122	114	54-145	27	30				
cis-1,3-Dichloropropene	101	103	51-131	18	30				
trans-1,3-Dichloropropene	98	100	49-129	19	30				
Ethylbenzene	118	108	44-141	29	30				
Freon 113	132	126	56-156	25	30				
Freon 133a	98	115	61-131	6	30				
Hexachlorobutadiene	105	93	10-155	32*	30				
2-Hexanone	85	97	32-160	7	30				
Isopropylbenzene	123	111	38-144	30	30				
p-Isopropyltoluene	119	104	29-152	33*	30				
Methyl Tertiary Butyl Ether	95	102	55-129	13	30				
4-Methyl-2-pentanone	85	93	46-139	11	30				
Methylene Chloride	118	114	61-141	21	30				
n-Propylbenzene	121	108	39-157	32*	30				
Styrene	116	108	35-134	27	30				
1,1,1,2-Tetrachloroethane	112	109	52-130	23	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,2,2-Tetrachloroethane	91	93	40-152	18	30				
Tetrachloroethene	128	117	42-149	29	30				
Toluene	118	110	50-146	27	30				
1,2,3-Trichlorobenzene	97	94	10-140	23	30				
1,2,4-Trichlorobenzene	94	88	10-136	26	30				
1,1,1-Trichloroethane	121	116	64-142	24	30				
1,1,2-Trichloroethane	102	104	54-139	18	30				
Trichloroethene	114	110	53-144	23	30				
Trichlorofluoromethane	114	108	47-163	26	30				
1,2,3-Trichloropropane	92	96	45-154	17	30				
1,2,4-Trimethylbenzene	114	104	37-149	29	30				
1,3,5-Trimethylbenzene	120	107	38-150	31*	30				
Vinyl Chloride	100	97	50-154	23	30				
m+p-Xylene	123	112	44-137	29	30				
o-Xylene	116	108	42-137	27	30				
Batch number: 11160SLB026	Sample number(s): 6305964-6305967 UNSPK: 6305964								
N-Nitrosodimethylamine	83	93	70-130	11	30				
Batch number: 11166SLA026	Sample number(s): 6305964-6305967 UNSPK: P312169								
Aniline	74	68	35-95	9	30				
Benzidine	58	44	35-141	26	30				
Benzoic acid	51	49	10-173	3	30				
Benzyl alcohol	86	87	67-115	1	30				
4-Bromophenyl-phenylether	91	91	67-129	1	30				
Carbazole	90	88	64-120	2	30				
4-Chloro-3-methylphenol	85	85	76-110	1	30				
4-Chloroaniline	62	51	23-95	19	30				
bis(2-Chloroethoxy)methane	89	89	75-104	0	30				
bis(2-Chloroethyl)ether	86	88	60-116	2	30				
bis(2-Chloroisopropyl)ether	84	84	55-142	1	30				
2-Chloronaphthalene	88	83	50-141	6	30				
2-Chlorophenol	88	91	73-121	3	30				
4-Chlorophenyl-phenylether	89	89	80-109	0	30				
Dibenzofuran	89	92	71-112	3	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	78	83	63-109	6	30				
1,4-Dichlorobenzene	80	83	70-100	4	30				
3,3'-Dichlorobenzidine	74	74	16-119	0	30				
2,4-Dichlorophenol	89	89	78-117	0	30				
2,4-Dimethylphenol	93	93	78-110	1	30				
3,5-Dimethylphenol	96	96	70-130	0	30				
4,6-Dinitro-2-methylphenol	73	70	24-116	3	30				
2,4-Dinitrophenol	58	52	20-143	11	30				
2,4-Dinitrotoluene	86	85	73-113	0	30				
2,6-Dinitrotoluene	91	91	69-123	0	30				
1,2-Diphenylhydrazine	104	103	71-129	1	30				
bis(2-Ethylhexyl)phthalate	105	103	63-122	1	30				
Hexachlorobenzene	94	94	77-114	0	30				
Hexachlorobutadiene	86	91	62-120	6	30				
Hexachlorocyclopentadiene	75	76	10-153	0	30				
Hexachloroethane	78	83	57-109	7	30				
Isophorone	91	91	73-102	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylphenol	85	85	75-111	0	30				
4-Methylphenol	81	83	71-111	3	30				
2-Nitroaniline	92	93	67-125	1	30				
3-Nitroaniline	85	83	59-122	2	30				
4-Nitroaniline	65	64	52-112	2	30				
Nitrobenzene	93	94	72-106	2	30				
2-Nitrophenol	91	89	74-115	2	30				
4-Nitrophenol	80	78	54-113	2	30				
N-Nitroso-di-n-propylamine	87	86	60-116	1	30				
N-Nitrosodiphenylamine	98	97	86-145	1	30				
Pentachlorophenol	85	80	28-127	6	30				
Phenol	88	87	58-126	1	30				
1,2,4-Trichlorobenzene	90	94	72-115	4	30				
2,4,5-Trichlorophenol	90	92	78-109	3	30				
2,4,6-Trichlorophenol	95	97	77-115	1	30				
Batch number: 11167SLC026	Sample number(s): 6305964-6305967 UNSPK: P304862								
Acenaphthene	84	81	63-105	3	30				
Acenaphthylene	80	77	67-114	4	30				
Anthracene	86	85	60-122	1	30				
Benzo(a)anthracene	89	88	59-128	1	30				
Benzo(a)pyrene	88	88	45-138	0	30				
Benzo(b)fluoranthene	96	96	43-155	1	30				
Benzo(g,h,i)perylene	90	91	33-141	0	30				
Benzo(k)fluoranthene	87	88	42-144	1	30				
Butylbenzylphthalate	104	102	57-173	1	30				
Di-n-butylphthalate	98	98	65-148	1	30				
Chrysene	86	86	48-134	0	30				
Dibenz(a,h)anthracene	93	93	22-133	1	30				
Diethylphthalate	85	84	70-136	2	30				
Dimethylphthalate	85	83	74-118	3	30				
Fluoranthene	84	85	26-166	0	30				
Fluorene	86	83	66-122	4	30				
Indeno(1,2,3-cd)pyrene	93	94	21-143	1	30				
1-Methylnaphthalene	89	86	72-123	4	30				
2-Methylnaphthalene	80	77	64-103	4	30				
Naphthalene	82	83	61-102	1	30				
N-Nitrosodimethylamine	85	82	48-113	4	30				
Di-n-octylphthalate	111	107	40-192	4	30				
Phenanthrene	80	80	12-165	0	30				
Pyrene	80	79	15-153	1	30				
Batch number: 111670008A	Sample number(s): 6305964-6305967 UNSPK: P305886								
4-Amino-2,6-Dinitrotoluene	105	113	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	106	113	80-137	2	50				
1,3-Dinitrobenzene	111	118	38-166	2	50				
2,4-Dinitrotoluene	104	109	80-131	1	50				
2,6-Dinitrotoluene	105	111	80-127	2	50				
HMX	90	97	63-128	4	50				
Nitrobenzene	105	115	80-125	5	50				
Nitroglycerin	91	97	80-120	3	50				
2-Nitrotoluene	103	108	80-122	1	50				
3-Nitrotoluene	110	116	72-119	2	50				

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrotoluene	102	108	80-125	2	50				
PETN	113	118	80-121	1	50				
RDX	87	94	75-129	4	50				
Tetryl	72	76	55-174	2	50				
1,3,5-Trinitrobenzene	90	101	82-126	8	50				
2,4,6-Trinitrotoluene	106	113	82-130	3	50				
Batch number: 111590006A	Sample number(s): 6305964-6305967 UNSPK: P305886								
25a Formaldehyde 8315A	82	88	80-120	4	50				
Batch number: 111610011A	Sample number(s): 6305964-6305967 UNSPK: 6305965								
PCB-1016	96	109	29-146	12	50				
PCB-1260	80	98	39-149	19	50				
Batch number: 111580028A	Sample number(s): 6305964-6305967 UNSPK: P306851								
EFH (C12-C14)	105	110	49-123	6	20				
EFH (C15-C20)	118	116	49-123	1	20				
EFH (C21-C30)	100	96	49-123	4	20				
EFH (C30 - C40)	94	95	49-123	2	20				
EFH (C8-C11)	99	101	49-123	4	20				
Batch number: 111540022A	Sample number(s): 6305964 UNSPK: P305886								
Ethanol	64	65	48-130	2	20				
Isopropanol	69	70	12-149	2	20				
Methanol	75	77	43-138	3	20				
Batch number: 111570001A	Sample number(s): 6305964-6305967 UNSPK: P305886								
Diethylene glycol	7*	8*	59-109	8	20				
Ethylene glycol	38*	41*	63-107	7	20				
Propylene glycol	54*	57*	63-107	7	20				
Batch number: 111580038A	Sample number(s): 6305965-6305967 UNSPK: P306851								
Ethanol	79	79	48-130	0	20				
Isopropanol	77	77	12-149	1	20				
Methanol	81	82	43-138	0	20				
Batch number: 111590037A	Sample number(s): 6305964-6305967 UNSPK: 6305964								
m-Terphenyl	68*	0*	75-125	200*	20				
o-Terphenyl	76	840*	75-125	167*	20				
p-Terphenyl	79	0*	75-125	200*	20				
Batch number: 111581026004A	Sample number(s): 6305964-6305967 UNSPK: P302797 BKG: P302797								
Antimony	58*	55*	75-125	4	20	0.153 J	0.149 J	3 (1)	20
Arsenic	116	83	75-125	8	20	5.64	4.83	16	20
Beryllium	75	72*	75-125	2	20	0.696	0.637	9	20
Cadmium	110	103	75-125	6	20	0.111	0.118	6 (1)	20
Chromium	91	82	75-125	3	20	23.4	23.1	2	20
Cobalt	97	94	75-125	2	20	7.87	8.31	6	20
Copper	100	94	75-125	3	20	11.0	11.0	0	20
Lead	101	57*	75-125	12	20	8.38	6.41	27*	20
Nickel	113	107	75-125	2	20	15.5	15.1	3	20
Silver	103	99	75-125	3	20	0.0473 J	0.0384 J	21* (1)	20
Thallium	107	87	75-125	12	20	0.242	0.235	3 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vanadium	105 (2)	97 (2)	75-125	1	20	47.3	43.6	8	20
Zinc	96 (2)	69 (2)	75-125	5	20	45.2	43.4	4	20
Batch number: 111581026004B	Sample number(s): 6305964-6305967 UNSPK: P302797 BKG: P302797								
Selenium	96	100	75-125	5	20	0.0452 J	0.0396 U	200* (1)	20
Batch number: 111581026004C	Sample number(s): 6305964-6305967 UNSPK: P302797 BKG: P302797								
Molybdenum	99	94	75-125	4	20	0.245	0.227	8 (1)	20
Batch number: 111581026004D	Sample number(s): 6305964-6305967 UNSPK: P302797 BKG: P302797								
Barium	139 (2)	37 (2)	75-125	8	20	113	105	7	20
Batch number: 111585708002	Sample number(s): 6305964-6305967 UNSPK: P302797 BKG: P302797								
Boron	100	102	84-115	1	20	15.1	13.8	9 (1)	20
Calcium	94 (2)	-2118 (2)	75-125	35*	20	28,500	29,400	3	20
Iron	-1141 (2)	854 (2)	75-125	8	20	25,200	23,900	6	20
Lithium	102	103	82-114	1	20	20.9	19.4	8	20
Magnesium	114 (2)	198 (2)	75-125	3	20	5,470	5,120	7	20
Manganese	204 (2)	378 (2)	75-125	24*	20	213	307	36*	20
Phosphorus	84	105	75-125	6	20	240	244	2	20
Potassium	149*	151*	75-125	0	20	2,650	2,600	2	20
Sodium	97	99	75-125	2	20	636	594	7	20
Strontium	98	97	75-115	1	20	38.4	35.6	8	20
Tin	87	88	80-110	2	20	2.48 J	2.44 J	2 (1)	20
Zirconium	97	98	75-125	1	20	2.76 J	4.72 J	52* (1)	20
Batch number: 111585711003	Sample number(s): 6305964-6305967 UNSPK: P302797 BKG: P302797								
Mercury	106	112	65-135	4	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 111595708002	Sample number(s): 6305964-6305967 UNSPK: P302797 BKG: P302797								
Aluminum	1002 (2)	704 (2)	75-125	2	20	25,800	24,700	5	20
Titanium	360 (2)	310 (2)	75-125	4	20	1,010	1,160	13	20
Batch number: 11159102201A	Sample number(s): 6305964-6305967 UNSPK: P301476 BKG: P301476								
17a Cyanide by 9012B	98		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11164243201A	Sample number(s): 6305964-6305967 UNSPK: P310775 BKG: P310775								
3a Cr VI by EPA 7199	91		75-125			0.45 J	0.42 J	8 (1)	20
Batch number: 11166621202A	Sample number(s): 6305964-6305965 UNSPK: P304855 BKG: P304855								
7a Perchlorate EPA 314.0	89		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11166621202B	Sample number(s): 6305966-6305967 UNSPK: 6305966 BKG: 6305966								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11168621202A	Sample number(s): 6305964-6305967 UNSPK: 6305967 BKG: 6305967								
11a Anions by 300.0 - Fluoride	59*		80-120			4.4	4.8	9 (1)	20
11a Anions by 300.0 - Nitrate	86		80-120			2.9	2.8	3 (1)	20
Batch number: 11158039402B	Sample number(s): 6305964-6305966 BKG: 6305966								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
18a pH by 9045C						8.72	8.69	0	3
Batch number: 11158039403A	Sample number(s): 6305967 BKG: P306836								
18a pH by 9045C						7.00	7.03	0	3
Batch number: 11174162401B	Sample number(s): 6305964-6305967 BKG: 6305966								
Moisture Content by 160.3						12.2	11.7	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111572AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6305964	105	106	99	92
6305965	104	101	99	93
6305966	104	100	101	90
6305967	104	100	99	93
Blank	104	105	98	94
LCS	102	101	102	102
MS	100	95	104	100
MSD	101	97	103	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111571AA

	Toluene-d8
6305968	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111581AA

	Toluene-d8
6305964	94
6305965	94
6305966	94
6305967	95
Blank	95
LCS	95
LCSD	95

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Surrogate Quality Control

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111582AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6305968	105	100	100	96
Blank	106	101	100	97
LCS	105	100	100	103
LCSD	104	98	100	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11160SLB026

	N-Nitrosodimethylamine-d6
6305964	1143*
6305965	109
6305966	1162*
6305967	1041*
Blank	109
LCS	124
MS	1148*
MSD	1127*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11166SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6305964	84	86	82	90	92	83
6305965	83	84	83	88	91	84
6305966	77	74	74	76	79	80
6305967	84	86	83	88	90	84
Blank	85	83	88	87	90	87
LCS	89	89	84	94	93	87
MS	89	89	85	93	93	85
MSD	85	87	84	93	94	84
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11167SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6305964	81	81	216*
6305965	90	82	92
6305966	84	76	84
6305967	86	79	93
Blank	88	84	100
LCS	91	85	100
MSRE	93	85	96
MSDRE	89	80	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Surrogate Quality Control

Limits: 40-130 45-130 45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11157A20A

	Trifluorotoluene-F
6305968	71
Blank	72
LCS	104
LCSD	101

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11157A34A

	Trifluorotoluene-F
6305964	70
6305965	73
6305966	85
6305967	73
Blank	85
LCS	91
LCSD	101

Limits: 61-122

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111590006A

	Butyraldehyde
6305964	67
6305965	76
6305966	67
6305967	62*
Blank	83
LCS	63*
MS	92
MSD	88

Limits: 64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111610011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6305964	34*	61
6305965	75	85
6305966	98	104
6305967	103	127*
Blank	95	118
LCS	95	122*
LCSD	94	120
MS	91	97
MSD	114	116

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Surrogate Quality Control

Limits: 53-139 45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111670008A

	2-Nitro-m-xylene
6305964	120
6305965	121
6305966	117
6305967	119
Blank	120
LCS	122
LCSD	124
MS	111
MSD	107

Limits: 80-146

Analysis Name: 19a Alcohols by 8015B
Batch number: 111540022A

	Acetone
6305964	83
Blank	92
LCS	94
MS	109
MSD	107

Limits: 42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111570001A

	Tetramethylene glycol
6305964	81
6305965	87
6305966	82
6305967	85
Blank	82
LCS	91
MS	79
MSD	86

Limits: 29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111580028A

	Chlorobenzene	Orthoterphenyl
6305964	85	663*
6305965	81	99
6305966	84	96
6305967	86	95
Blank	93	106
LCS	91	108
MS	91	107
MSD	90	104

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249816
Reported: 07/01/11 at 03:06 PM

Surrogate Quality Control

Limits: 37-125 47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111580038A

	Acetone
6305965	81
6305966	86
6305967	80
Blank	94
LCS	93
MS	80
MSD	79

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111590037A

	n-Triacontane-d62
6305964	153*
6305965	93
6305966	89
6305967	93
Blank	96
LCS	97
MS	110
MSD	0*

Limits: 50-150

*- Outside of specification
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acct#13013 Cp#1249816 Sample#6305964-68

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Pamela Hanks

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpheny/s EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-016-SA5DN-SB-4.5	6/2/11	1000	SOIL	NONE	5-Encores										X	X	X										
SL-016-SA5DN-SB-4.0-5.0	6/2/11	1004	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-016-SA5DN-SB-12.5	6/2/11	1009	SOIL	NONE	5-Encores										X	X	X										
SL-016-SA5DN-SB-12.0-13.0	6/2/11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-021-SA5DN-SB-4.5	6/2/11	1430	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA5DN-SB-4.0-5.0	6/2/11	1440	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-021-SA5DN-SB-20.0	6/2/11	1445	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA5DN-SB-19.5-20.5	6/2/11	1450	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-060211	6/2/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
Tom Dixon	06/2/2011 / 1700	Barry Bahl 6/3/11 1015	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9051; 8754 3339 9062 8754 3339 9073; 8754 3339 9084 8754 3339 9095	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/03/2011
Group Number: 1249817
SDG: DX098
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-016-SA5DN-SB-4.0-5.0 Soil	6305969
SL-016-SA5DN-SB-12.0-13.0 Soil	6305970
SL-021-SA5DN-SB-4.0-5.0 Soil	6305971
SL-021-SA5DN-SB-19.5-20.5 Soil	6305972

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305969
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9801 SDG#: DX098-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305969
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9801 SDG#: DX098-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0206	JBQ	0.0191	1.18	1
11031	12378-PeCDD	40321-76-4	0.0737	JB	0.0296	5.90	1
11031	123478-HxCDD	39227-28-6	0.0522	JBQ	0.0251	5.90	1
11031	123678-HxCDD	57653-85-7	0.240	JBQ	0.0274	5.90	1
11031	123789-HxCDD	19408-74-3	0.337	JB	0.0250	5.90	1
11031	1234678-HpCDD	35822-46-9	2.16	JB	0.0343	5.90	1
11031	OCDD	3268-87-9	23.0	B	0.0288	11.8	1
11031	2378-TCDF	51207-31-9	0.0226	U	0.0226	1.18	1
11031	12378-PeCDF	57117-41-6	0.0868	JBQ	0.0162	5.90	1
11031	23478-PeCDF	57117-31-4	0.179	JQ	0.0172	5.90	1
11031	123478-HxCDF	70648-26-9	0.128	JB	0.0471	5.90	1
11031	123678-HxCDF	57117-44-9	0.119	JBQ	0.0403	5.90	1
11031	123789-HxCDF	72918-21-9	0.363	JB	0.0256	5.90	1
11031	234678-HxCDF	60851-34-5	0.139	JB	0.0188	5.90	1
11031	1234678-HpCDF	67562-39-4	0.410	JB	0.0189	5.90	1
11031	1234789-HpCDF	55673-89-7	0.148	JB	0.0193	5.90	1
11031	OCDF	39001-02-0	1.32	JB	0.0396	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	57	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	97	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-016-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305969
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9801 SDG#: DX098-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-016-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305969
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:04

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9801 SDG#: DX098-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/14/2011 02:33	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-016-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305970
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9802 SDG#: DX098-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305970
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9802 SDG#: DX098-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0204 U	0.0204	1.12	1
11031	12378-PeCDD	40321-76-4	0.0244 U	0.0244	5.59	1
11031	123478-HxCDD	39227-28-6	0.0368 JBQ	0.0165	5.59	1
11031	123678-HxCDD	57653-85-7	0.0431 JBQ	0.0167	5.59	1
11031	123789-HxCDD	19408-74-3	0.0397 JBQ	0.0163	5.59	1
11031	1234678-HpCDD	35822-46-9	1.14 JB	0.0283	5.59	1
11031	OCDD	3268-87-9	10.9 JB	0.0286	11.2	1
11031	2378-TCDF	51207-31-9	0.0217 U	0.0217	1.12	1
11031	12378-PeCDF	57117-41-6	0.0193 JBQ	0.0138	5.59	1
11031	23478-PeCDF	57117-31-4	0.0783 JQ	0.0152	5.59	1
11031	123478-HxCDF	70648-26-9	0.0865 JBQ	0.0247	5.59	1
11031	123678-HxCDF	57117-44-9	0.0533 JBQ	0.0174	5.59	1
11031	123789-HxCDF	72918-21-9	0.0500 JBQ	0.0229	5.59	1
11031	234678-HxCDF	60851-34-5	0.0742 JBQ	0.0154	5.59	1
11031	1234678-HpCDF	67562-39-4	0.143 JBQ	0.00995	5.59	1
11031	1234789-HpCDF	55673-89-7	0.0704 JBQ	0.0210	5.59	1
11031	OCDF	39001-02-0	0.379 JBQ	0.0543	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	34	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-016-SA5DN-SB-12.0-13.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305970
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9802 SDG#: DX098-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-016-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DN-SB-12.0-13.0

LLI Sample # SW 6305970
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 10:19

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9802 SDG#: DX098-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/14/2011 03:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305971
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9803 SDG#: DX098-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305971
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9803 SDG#: DX098-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0296 JBQ	0.0194	1.13	1
11031	12378-PeCDD	40321-76-4	0.0400 JBQ	0.0268	5.63	1
11031	123478-HxCDD	39227-28-6	0.0222 U	0.0222	5.63	1
11031	123678-HxCDD	57653-85-7	0.147 JB	0.0237	5.63	1
11031	123789-HxCDD	19408-74-3	0.187 JB	0.0228	5.63	1
11031	1234678-HpCDD	35822-46-9	3.04 JB	0.0377	5.63	1
11031	OCDD	3268-87-9	43.8 B	0.0400	11.3	1
11031	2378-TCDF	51207-31-9	0.0264 U	0.0264	1.13	1
11031	12378-PeCDF	57117-41-6	0.0510 JBQ	0.0214	5.63	1
11031	23478-PeCDF	57117-31-4	0.154 JQ	0.0222	5.63	1
11031	123478-HxCDF	70648-26-9	0.307 JBQ	0.0412	5.63	1
11031	123678-HxCDF	57117-44-9	0.0314 U	0.0314	5.63	1
11031	123789-HxCDF	72918-21-9	0.214 JBQ	0.0262	5.63	1
11031	234678-HxCDF	60851-34-5	0.0914 JB	0.0199	5.63	1
11031	1234678-HpCDF	67562-39-4	0.229 JB	0.0162	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0776 JBQ	0.0224	5.63	1
11031	OCDF	39001-02-0	0.743 JBQ	0.0460	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	42	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305971
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9803 SDG#: DX098-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-4.0-5.0

LLI Sample # SW 6305971
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:40

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9803 SDG#: DX098-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11159002	06/14/2011 04:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11159002	06/08/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305972
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9804 SDG#: DX098-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

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Suite 210
Chantilly VA 20151

X9804 SDG#: DX098-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0161 U	0.0161	1.11	1
11031	12378-PeCDD	40321-76-4	0.0164 U	0.0164	5.56	1
11031	123478-HxCDD	39227-28-6	0.0167 U	0.0167	5.56	1
11031	123678-HxCDD	57653-85-7	0.0828 JB	0.0174	5.56	1
11031	123789-HxCDD	19408-74-3	0.0413 JB	0.0161	5.56	1
11031	1234678-HpCDD	35822-46-9	2.96 JB	0.0406	5.56	1
11031	OCDD	3268-87-9	46.9 B	0.0408	11.1	1
11031	2378-TCDF	51207-31-9	0.0145 U	0.0145	1.11	1
11031	12378-PeCDF	57117-41-6	0.0251 JBQ	0.00757	5.56	1
11031	23478-PeCDF	57117-31-4	0.0400 JBQ	0.00746	5.56	1
11031	123478-HxCDF	70648-26-9	0.0288 JB	0.0102	5.56	1
11031	123678-HxCDF	57117-44-9	0.0166 JBQ	0.00869	5.56	1
11031	123789-HxCDF	72918-21-9	0.0423 JBQ	0.0117	5.56	1
11031	234678-HxCDF	60851-34-5	0.00969 U	0.00969	5.56	1
11031	1234678-HpCDF	67562-39-4	0.147 JB	0.0125	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0446 JB	0.0207	5.56	1
11031	OCDF	39001-02-0	0.357 JBQ	0.0345	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA5DN-SB-19.5-20.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305972
LLI Group # 1249817
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/02/2011 14:50

Submitted: 06/03/2011 10:15
Reported: 06/24/2011 23:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9804 SDG#: DX098-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA5DN-SB-19.5-20.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DN-SB-19.5-20.5

LLI Sample # SW 6305972
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9804 SDG#: DX098-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/20/2011 18:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249817
Reported: 06/24/11 at 11:21 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162401B	Sample number(s): 6305969-6305972								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11159002	Sample number(s): 6305969-6305971								
2378-TCDD	0.0249 J	0.0148	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0516 J	0.0176	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0371 J	0.0140	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0439 J	0.0148	5.00	ng/kg	102		76-134		
123789-HxCDD	0.0360 J	0.0137	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.200 J	0.0207	5.00	ng/kg	102		70-140		
OCDD	0.698 J	0.0185	10.0	ng/kg	99		78-144		
2378-TCDF	0.0173 U	0.0173	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0331 J	0.0123	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0136 U	0.0136	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0750 J	0.0171	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0456 J	0.0121	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0768 J	0.0158	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0650 J	0.0115	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.156 J	0.00740	5.00	ng/kg	99		82-122		
1234789-HpCDF	0.109 J	0.0149	5.00	ng/kg	98		78-138		
OCDF	0.500 J	0.0371	10.0	ng/kg	100		63-170		
Batch number: 11168002	Sample number(s): 6305972								
2378-TCDD	0.0167 U	0.0167	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0289 J	0.0179	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0155 U	0.0155	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0449 J	0.0158	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0269 J	0.0151	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.354 J	0.0282	5.00	ng/kg	90		70-140		
OCDD	1.63 J	0.0393	10.0	ng/kg	93		78-144		
2378-TCDF	0.0147 U	0.0147	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0201 J	0.00800	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0487 J	0.00800	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0253 J	0.00910	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0371 J	0.00820	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0358 J	0.0106	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0289 J	0.00870	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0766 J	0.0105	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0537 J	0.0166	5.00	ng/kg	93		78-138		
OCDF	0.178 J	0.0357	10.0	ng/kg	94		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249817
Reported: 06/24/11 at 11:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162401B	Sample number(s): 6305969-6305972					BKG: P305966			
Moisture Content by 160.3						12.2	11.7	5	20
Batch number: 11159002	Sample number(s): 6305969-6305971					UNSPK: P298925			
2378-TCDD	93	93	67-158	0	25				
12378-PeCDD	98	93	70-142	4	25				
123478-HxCDD	96	95	70-164	0	25				
123678-HxCDD	100	98	76-134	1	25				
123789-HxCDD	98	97	64-162	0	25				
1234678-HpCDD	97	97	70-140	1	25				
OCDD	90	94	78-144	4	25				
2378-TCDF	96	100	75-158	5	25				
12378-PeCDF	96	96	80-134	1	25				
23478-PeCDF	97	97	68-160	0	25				
123478-HxCDF	98	93	72-134	4	25				
123678-HxCDF	96	98	84-130	3	25				
123789-HxCDF	98	96	78-130	2	25				
234678-HxCDF	98	96	70-156	1	25				
1234678-HpCDF	95	93	82-122	1	25				
1234789-HpCDF	97	96	78-138	0	25				
OCDF	92	97	63-170	6	25				
Batch number: 11168002	Sample number(s): 6305972					UNSPK: P306861			
2378-TCDD	83	85	67-158	2	25				
12378-PeCDD	89	90	70-142	0	25				
123478-HxCDD	89	91	70-164	1	25				
123678-HxCDD	89	89	76-134	0	25				
123789-HxCDD	90	89	64-162	1	25				
1234678-HpCDD	87	88	70-140	0	25				
OCDD	73*	74*	78-144	0	25				
2378-TCDF	90	90	75-158	0	25				
12378-PeCDF	90	95	80-134	5	25				
23478-PeCDF	91	90	68-160	1	25				
123478-HxCDF	92	92	72-134	1	25				
123678-HxCDF	93	92	84-130	1	25				
123789-HxCDF	91	93	78-130	1	25				
234678-HxCDF	91	91	70-156	0	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	91	91	78-138	0	25				
OCDF	92	93	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11159002

13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249817
Reported: 06/24/11 at 11:21 PM

Surrogate Quality Control

6305969	80	79	34	38	79	70
6305970	69	65	44	59	67	54
6305971	76	71	37	47	73	67
Blank	81	65	54	73	75	63
MS	74	71	67	78	74	59
MSD	74	70	66	73	69	59
OPR	65	65	68	80	75	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6305969	57	60	49	97	81	78
6305970	75	43	34	95	71	69
6305971	62	53	42	93	76	75
Blank	93	53	43	114	82	83
MS	84	48	32	87	73	74
MSD	80	46	33	92	76	72
OPR	93	57	42	86	70	80
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6305969	76	80	73	64	77	89
6305970	73	74	70	58	64	80
6305971	73	76	68	56	72	79
Blank	82	87	79	68	70	78
MS	74	75	64	51	74	85
MSD	72	72	62	48	73	82
OPR	79	81	72	59	66	72
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11168002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6305972	60	58	61	69	64	60
Blank	58	57	62	67	64	62
MS	65	64	67	69	68	74
MSD	64	64	67	71	69	73
OPR	62	63	65	70	67	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6305972	78	58	53	74	63	70
Blank	76	60	55	80	62	70
MS	78	66	63	74	69	73
MSD	79	65	60	75	68	74
OPR	81	63	57	84	69	73

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249817
Reported: 06/24/11 at 11:21 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6305972	69	70	70	65	53	61
Blank	68	70	70	66	51	59
MS	70	72	74	72	59	67
MSD	73	75	73	69	59	59
OPR	70	73	74	69	56	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1249817 Sample# 6305969-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-016-SA5DN-SB-4.5	6/2/11	1000	SOIL	NONE	5-Encores										X	X	X										
SL-016-SA5DN-SB-4.0-5.0	6/2/11	1004	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-016-SA5DN-SB-12.5	6/2/11	1009	SOIL	NONE	5-Encores										X	X	X										
SL-016-SA5DN-SB-12.0-13.0	6/2/11	1019	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-021-SA5DN-SB-4.5	6/2/11	1430	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA5DN-SB-4.0-5.0	6/2/11	1440	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-021-SA5DN-SB-20.0	6/2/11	1445	SOIL	NONE	5-Encores										X	X	X										
SL-021-SA5DN-SB-19.5-20.5	6/2/11	1450	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-060211	6/2/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/2/2011 / 1700	6/3/11 1015	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9051; 8754 3339 9062 8754 3339 9073; 8754 3339 9084 8754 3339 9095	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/04/2011
Group Number: 1249957
SDG: DE173
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-152-SA5DN-SS-0.0-0.5 Soil	6306833
SL-153-SA5DN-SS-0.0-0.5 Soil	6306834
SL-154-SA5DN-SS-0.0-0.5 Soil	6306835
SL-155-SA5DN-SS-0.0-0.5 Soil	6306836
SL-155-SA5DN-SS-0.0-0.5MS Soil	6306837
SL-155-SA5DN-SS-0.0-0.5MSD Soil	6306838
SL-155-SA5DN-SS-0.0-0.5DUP Soil	6306839
SL-156-SA5DN-SS-0.0-0.5 Soil	6306840
SL-157-SA5DN-SS-0.0-0.5 Soil	6306841
SL-158-SA5DN-SS-0.0-0.5 Soil	6306842
SL-159-SA5DN-SS-0.0-0.5 Soil	6306843
SL-160-SA5DN-SS-0.0-0.5 Soil	6306844
SL-162-SA5DN-SS-0.0-0.5 Soil	6306845
SL-166-SA5DN-SS-0.0-0.5 Soil	6306846
SL-207-SA5DN-SS-0.0-0.5 Soil	6306847
DUP-13-SA5DN-QC-060311 Soil	6306848
EB14-SA5DN-SB-060311 Water	6306849
EB13-SA5DN-SS-060311 Water	6306850
SL-019-SA5DN-SB-4.0-5.0 Soil	6306851
SL-019-SA5DN-SB-9.0-10.0 Soil	6306852
SL-027-SA5DN-SB-4.0-5.0 Soil	6306853
SL-027-SA5DN-SB-14.0-15.0 Soil	6306854
SL-052-SA5DN-SB-4.0-5.0 Soil	6306855
SL-052-SA5DN-SB-9.0-10.0 Soil	6306856
TB-060311 Water	6306857

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306833
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17301 SDG#: DE173-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	44	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306833
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17301 SDG#: DE173-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.79	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.7		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	2.5		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.7	J	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.2	J	0.71	1.8		1
10138	Pyrene	129-00-0	2.1		0.71	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	81	U	81	270		1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

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Sample Description: SL-152-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306833
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17301 SDG#: DE173-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.18	U	0.18	0.45		1
01363	Alpha BHC	319-84-6	0.091	U	0.091	0.45		1
01363	Beta BHC	319-85-7	1.0		0.16	0.45		1
01363	Gamma BHC - Lindane	58-89-9	0.091	U	0.091	0.45		1
01363	Chlordane	57-74-9	2.1	U	2.1	9.1		1
01363	p,p-DDD	72-54-8	0.26	J	0.18	0.91		1
01363	p,p-DDE	72-55-9	0.18	U	0.18	0.91		1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.91		1
01363	Delta BHC	319-86-8	0.097	U	0.097	0.45		1
01363	Dieldrin	60-57-1	0.18	U	0.18	0.91		1
01363	Endosulfan I	959-98-8	0.12	U	0.12	0.45		1
01363	Endosulfan II	33213-65-9	0.18	U	0.18	0.91		1
01363	Endosulfan Sulfate	1031-07-8	0.18	U	0.18	0.91		1
01363	Endrin	72-20-8	0.18	U	0.18	0.91		1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.91		1
01363	Endrin Ketone	53494-70-5	0.18	U	0.18	0.91		1
01363	Heptachlor	76-44-8	0.16	U	0.16	0.45		1
01363	Heptachlor Epoxide	1024-57-3	0.091	U	0.091	0.45		1
01363	Methoxychlor	72-43-5	0.91	U	0.91	4.5		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.91		1
01363	Toxaphene	8001-35-2	5.9	U	5.9	18		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	1.9		0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1

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Sample Description: SL-152-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306833
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

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17301 SDG#: DE173-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		5.29	21.0		1
07914	Boron	7440-42-8	14.0	J	1.89	26.3		5
01650	Calcium	7440-70-2	17,800		6.45	21.0		1
01654	Iron	7439-89-6	32,800		13.7	105		5
01656	Lithium	7439-93-2	48.2		0.23	2.1		1
01657	Magnesium	7439-95-4	10,200		2.67	10.5		1
06958	Manganese	7439-96-5	510		0.0820	0.526		1
10145	Phosphorus	7723-14-0	516		0.589	10.5		1
01662	Potassium	7440-09-7	4,070		18.9	52.6		1
01667	Sodium	7440-23-5	239		39.2	105		1
07968	Strontium	7440-24-6	38.5		0.0652	0.526		1
06969	Tin	7440-31-5	4.34	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,480		0.400	1.05		1
10146	Zirconium	7440-67-7	6.75		0.884	5.26		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.259		0.0786	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.0		0.0850	0.425		2
06126	Barium	7440-39-3	151		0.113	0.425		2
06127	Beryllium	7440-41-7	1.32		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.284		0.0467	0.106		2
06131	Chromium	7440-47-3	36.5		0.127	0.425		2
06132	Cobalt	7440-48-4	15.4		0.0212	0.106		2
06133	Copper	7440-50-8	26.5		0.0850	0.425		2
06135	Lead	7439-92-1	12.4		0.0108	0.212		2
06138	Molybdenum	7439-98-7	1.26		0.0531	0.106		2
06139	Nickel	7440-02-0	22.6		0.106	0.425		2
06141	Selenium	7782-49-2	0.369	J	0.0616	0.425		2
06142	Silver	7440-22-4	0.147		0.0151	0.106		2
06145	Thallium	7440-28-0	0.422		0.0319	0.106		2
06148	Vanadium	7440-62-2	56.3		0.0234	0.106		2
06149	Zinc	7440-66-6	121		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0136	J	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1

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LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17301 SDG#: DE173-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65 J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.34	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 18:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 07:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 03:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011 19:49	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/14/2011 23:39	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/15/2011 17:02	John P Hook	5
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 17:02	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1

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Sample Description: SL-152-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306833
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17301 SDG#: DE173-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:38	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 11:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 11:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:45	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 00:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11168373204A	06/27/2011 18:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11160243201A	06/10/2011 15:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306834
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17302 SDG#: DE173-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306834
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17302 SDG#: DE173-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.79	J	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.99	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.9		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	2.4		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.90	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	1.0	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	2.1		0.72	1.8		1
10138	Pyrene	129-00-0	1.6	J	0.72	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	0.71	U	0.71	1.8		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	460		81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

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Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306834
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
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17302 SDG#: DE173-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	1.8	J	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.093	J	0.071	0.37		1
01363	p,p-DDT	50-29-3	0.071	U	0.071	0.37		1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.099	J	0.071	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. The TCX surrogate recovery is outside the lower QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1

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Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306834
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17302 SDG#: DE173-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,900		5.32	21.2		1
07914	Boron	7440-42-8	0.941	U	0.941	5.29		1
01650	Calcium	7440-70-2	3,660		6.48	21.2		1
01654	Iron	7439-89-6	25,400		4.98	21.2		1
01656	Lithium	7439-93-2	25.1		0.23	2.1		1
01657	Magnesium	7439-95-4	4,680		2.69	10.6		1
06958	Manganese	7439-96-5	388		0.0825	0.529		1
10145	Phosphorus	7723-14-0	303		0.592	10.6		1
01662	Potassium	7440-09-7	4,220		19.0	52.9		1
01667	Sodium	7440-23-5	87.4	J	39.4	106		1
07968	Strontium	7440-24-6	31.1		0.0656	0.529		1
06969	Tin	7440-31-5	3.34	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,470		0.402	1.06		1
10146	Zirconium	7440-67-7	5.50		0.888	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.239		0.0783	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.54		0.0846	0.423		2
06126	Barium	7440-39-3	134		0.112	0.423		2
06127	Beryllium	7440-41-7	0.759		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.268		0.0465	0.106		2
06131	Chromium	7440-47-3	24.9		0.127	0.423		2
06132	Cobalt	7440-48-4	8.87		0.0212	0.106		2
06133	Copper	7440-50-8	14.3		0.0846	0.423		2
06135	Lead	7439-92-1	7.70		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.716		0.0529	0.106		2
06139	Nickel	7440-02-0	16.5		0.106	0.423		2
06141	Selenium	7782-49-2	0.176	J	0.0613	0.423		2
06142	Silver	7440-22-4	0.0737	J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.304		0.0317	0.106		2
06148	Vanadium	7440-62-2	42.9		0.0233	0.106		2
06149	Zinc	7440-66-6	61.0		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0496	J	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306834
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17302 SDG#: DE173-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.73	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 19:21	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 08:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 03:36	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011 20:03	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/14/2011 23:58	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306834
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17302 SDG#: DE173-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:49	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 11:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 11:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 11:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 11:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:46	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 00:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 15:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 15:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306835
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17303 SDG#: DE173-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306835
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17303 SDG#: DE173-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.0		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	1.9		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.75	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.98	J	0.73	1.8		1
10138	Pyrene	129-00-0	1.6	J	0.73	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U	4.8	9.8		1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U	0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.9		1
10401	MCPA	94-74-6	92	U	92	270		1
10401	MCPP (Mecoprop)	93-65-2	82	U	82	270		1
10401	2,4,5-T	93-76-5	0.090	U	0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U	0.082	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306835
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17303 SDG#: DE173-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.15	J	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	3.1	J	0.88	3.7		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.37		1
01363	p,p-DDE	72-55-9	0.33	U	0.33	0.37		1
01363	p,p-DDT	50-29-3	0.21	U	0.21	0.37		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.37		1
01363	Endosulfan I	959-98-8	0.053	U	0.053	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.37		1
01363	Endrin	72-20-8	0.073	U	0.073	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.073	U	0.073	0.37		1
01363	Endrin Ketone	53494-70-5	0.14	J	0.073	0.37		1
01363	Heptachlor	76-44-8	0.066	U	0.066	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.075	U	0.075	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
	Reporting limits were raised due to interference from PCB.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306835
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17303 SDG#: DE173-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.70	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,400		5.42	21.5		1
07914	Boron	7440-42-8	0.959	U	0.959	5.39		1
01650	Calcium	7440-70-2	4,730		6.60	21.5		1
01654	Iron	7439-89-6	29,000		14.1	108		5
01656	Lithium	7439-93-2	25.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,780		2.74	10.8		1
06958	Manganese	7439-96-5	426		0.0840	0.539		1
10145	Phosphorus	7723-14-0	429		0.603	10.8		1
01662	Potassium	7440-09-7	5,190		19.4	53.9		1
01667	Sodium	7440-23-5	94.4	J	40.2	108		1
07968	Strontium	7440-24-6	34.2		0.0668	0.539		1
06969	Tin	7440-31-5	3.45	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,530		0.409	1.08		1
10146	Zirconium	7440-67-7	6.60		0.905	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.401		0.0790	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.19		0.0854	0.427		2
06126	Barium	7440-39-3	188		0.113	0.427		2
06127	Beryllium	7440-41-7	0.992		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.383		0.0469	0.107		2
06131	Chromium	7440-47-3	33.5		0.128	0.427		2
06132	Cobalt	7440-48-4	12.9		0.0213	0.107		2
06133	Copper	7440-50-8	21.2		0.0854	0.427		2
06135	Lead	7439-92-1	11.8		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.888		0.0533	0.107		2
06139	Nickel	7440-02-0	21.4		0.107	0.427		2
06141	Selenium	7782-49-2	0.257	J	0.0619	0.427		2
06142	Silver	7440-22-4	0.0571	J	0.0151	0.107		2
06145	Thallium	7440-28-0	0.403		0.0320	0.107		2
06148	Vanadium	7440-62-2	59.7		0.0235	0.107		2
06149	Zinc	7440-66-6	90.4		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306835
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17303 SDG#: DE173-03

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.9	U	9.9	33.0		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.29	J	0.22	1.1		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	7.29		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	9.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011	19:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011	08:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011	10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011	06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011	04:04	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011	20:30	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011	00:16	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011	16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011	18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011	17:53	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011	17:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011	17:53	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011	17:05	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011	17:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011	17:53	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011	17:53	John P Hook	1

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Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306835
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17303 SDG#: DE173-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:53	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:53	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:53	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:53	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 17:53	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:53	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:47	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 00:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 15:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11160243201A	06/10/2011 15:24	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306836
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306836
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.1		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	J	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	5.4		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	2.6		0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.96	J	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.6	J	0.70	1.7		1
10138	Pyrene	129-00-0	1.7	J	0.70	1.7		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	2.0	U	2.0	2.0		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	150	U	150	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306836
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	2.5	J	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.29	J	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.37		0.069	0.36		1
01363	Delta BHC	319-86-8	0.063	J	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.15	J	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.23	J	0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
	Reporting limits were raised due to interference from PCB.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	3.5		1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306836
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.6	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,800		5.21	20.7		1
07914	Boron	7440-42-8	0.922	U	0.922	5.18		1
01650	Calcium	7440-70-2	4,280		6.35	20.7		1
01654	Iron	7439-89-6	27,800		4.88	20.7		1
01656	Lithium	7439-93-2	23.8		0.23	2.1		1
01657	Magnesium	7439-95-4	5,850		2.63	10.4		1
06958	Manganese	7439-96-5	421		0.0808	0.518		1
10145	Phosphorus	7723-14-0	530		0.580	10.4		1
01662	Potassium	7440-09-7	5,630		18.6	51.8		1
01667	Sodium	7440-23-5	90.7	J	38.6	104		1
07968	Strontium	7440-24-6	27.6		0.0642	0.518		1
06969	Tin	7440-31-5	3.35	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,500		0.394	1.04		1
10146	Zirconium	7440-67-7	7.52		0.870	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.339		0.0752	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.79		0.0812	0.406		2
06126	Barium	7440-39-3	144		0.108	0.406		2
06127	Beryllium	7440-41-7	0.815		0.0162	0.102		2
06128	Cadmium	7440-43-9	0.423		0.0447	0.102		2
06131	Chromium	7440-47-3	33.0		0.122	0.406		2
06132	Cobalt	7440-48-4	12.0		0.0203	0.102		2
06133	Copper	7440-50-8	17.5		0.0812	0.406		2
06135	Lead	7439-92-1	11.8		0.0104	0.203		2
06138	Molybdenum	7439-98-7	0.903		0.0508	0.102		2
06139	Nickel	7440-02-0	20.5		0.102	0.406		2
06141	Selenium	7782-49-2	0.247	J	0.0589	0.406		2
06142	Silver	7440-22-4	0.0436	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.419		0.0305	0.102		2
06148	Vanadium	7440-62-2	55.3		0.0223	0.102		2
06149	Zinc	7440-66-6	87.7		0.569	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0029	U	0.0029	0.0998		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306836
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.21	1.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 17:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/29/2011 21:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 01:46	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011 20:44	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 00:35	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306836
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:16	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 11:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 11:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 11:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 11:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:48	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/18/2011 23:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 13:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 15:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306837
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,400		17	170		1
04688	Acenaphthylene	208-96-8	1,400		17	170		1
04688	Aniline	62-53-3	750		170	520		1
04688	Anthracene	120-12-7	1,400		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,400		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,200		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,200		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,300		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,200		17	170		1
04688	Benzoic acid	65-85-0	740		170	520		1
04688	Benzyl alcohol	100-51-6	1,300		170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,400		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,400		17	170		1
04688	Carbazole	86-74-8	1,300		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		34	170		1
04688	4-Chloroaniline	106-47-8	580		69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,300		17	170		1
04688	2-Chlorophenol	95-57-8	1,400		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		34	170		1
04688	Chrysene	218-01-9	1,400		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,300		17	170		1
04688	Dibenzofuran	132-64-9	1,300		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,200		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,200		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,200		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	830		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,400		17	170		1
04688	Diethylphthalate	84-66-2	1,300		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,300		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,800		34	170		1
04688	Dimethylphthalate	131-11-3	1,400		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	870		170	520		1
04688	2,4-Dinitrophenol	51-28-5	930	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,300		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,300		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500		17	340		1
04688	Fluoranthene	206-44-0	1,300		17	170		1
04688	Fluorene	86-73-7	1,300		17	170		1
04688	Hexachlorobenzene	118-74-1	1,400		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,300		69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	1,600		170	520		1
04688	Hexachloroethane	67-72-1	1,100		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,300		17	170		1
04688	Isophorone	78-59-1	1,300		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306837
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,300	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,200	17	170		1
04688	2-Methylphenol	95-48-7	1,300	34	170		1
04688	4-Methylphenol	106-44-5	1,200	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,300	17	170		1
04688	2-Nitroaniline	88-74-4	1,400	17	170		1
04688	3-Nitroaniline	99-09-2	1,200	34	170		1
04688	4-Nitroaniline	100-01-6	990	69	170		1
04688	Nitrobenzene	98-95-3	1,400	17	170		1
04688	2-Nitrophenol	88-75-5	1,300	17	170		1
04688	4-Nitrophenol	100-02-7	1,100	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,400	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,400	17	170		1
04688	Pentachlorophenol	87-86-5	1,100	170	520		1
04688	Phenanthrene	85-01-8	1,300	17	170		1
04688	Phenol	108-95-2	1,200	17	170		1
04688	Pyrene	129-00-0	1,500	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400	34	170		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	31	0.69	1.7		1
10138	Acenaphthylene	208-96-8	29	0.35	1.7		1
10138	Anthracene	120-12-7	31	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	30	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	30	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	36	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	15	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	35	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	35	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	33	6.2	19		1
10138	Chrysene	218-01-9	32	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	17	0.69	1.7		1
10138	Diethylphthalate	84-66-2	37	6.2	19		1
10138	Dimethylphthalate	131-11-3	32	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.2	19		1
10138	Fluoranthene	206-44-0	35	0.69	1.7		1
10138	Fluorene	86-73-7	32	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	16	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	33	0.69	1.7		1

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Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306837
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	2-Methylnaphthalene	91-57-6	34		0.69	1.7		1
10138	Naphthalene	91-20-3	30		0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	18		0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	41		6.2	19		1
10138	Phenanthrene	85-01-8	32		0.69	1.7		1
10138	Pyrene	129-00-0	30		0.69	1.7		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 71 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	6.6		1.2	3.7		1
10401	Dalapon	75-99-0	5.6	J	4.6	9.3		1
10401	2,4-DB	94-82-6	3.7		0.64	1.8		1
10401	Dicamba	1918-00-9	0.61	J	0.42	1.2		1
10401	Dinoseb	88-85-7	2.0	J	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.0		0.83	1.8		1
10401	MCPA	94-74-6	360		79	260		1
10401	MCPP (Mecoprop)	93-65-2	350		78	260		1
10401	2,4,5-T	93-76-5	0.19		0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.61		0.077	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.19		0.069	0.18		1
01363	Alpha BHC	319-84-6	0.40		0.036	0.18		1
01363	Beta BHC	319-85-7	0.22		0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.25		0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.62		0.069	0.36		1
01363	p,p-DDE	72-55-9	0.60		0.069	0.36		1
01363	p,p-DDT	50-29-3	0.91		0.069	0.36		1
01363	Delta BHC	319-86-8	0.25		0.038	0.18		1
01363	Dieldrin	60-57-1	0.71		0.069	0.36		1
01363	Endosulfan I	959-98-8	0.15	J	0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.60		0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.50		0.069	0.36		1
01363	Endrin	72-20-8	0.62		0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.52		0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.60		0.069	0.36		1

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Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306837
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Heptachlor	76-44-8	0.45		0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.20		0.036	0.18		1
01363	Methoxychlor	72-43-5	4.2		0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	3.4	J	1.0	3.5		1
10225	PCB-1016	12674-11-2	15		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	14		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,900		5.21	20.7		1
07914	Boron	7440-42-8	204		0.922	5.18		1
01650	Calcium	7440-70-2	5,040		6.35	20.7		1
01654	Iron	7439-89-6	27,100		13.5	104		5
01656	Lithium	7439-93-2	131		0.23	2.1		1
01657	Magnesium	7439-95-4	6,340		2.63	10.4		1
06958	Manganese	7439-96-5	473		0.0808	0.518		1
10145	Phosphorus	7723-14-0	608		0.580	10.4		1
01662	Potassium	7440-09-7	7,110		18.6	51.8		1
01667	Sodium	7440-23-5	1,100		38.6	104		1
07968	Strontium	7440-24-6	133		0.0642	0.518		1
06969	Tin	7440-31-5	366		1.04	10.4		1
06970	Titanium	7440-32-6	1,990		0.368	5.18		5
10146	Zirconium	7440-67-7	104		0.870	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.14		0.0752	0.203		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306837
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	13.4	0.0812	0.406		2
06126	Barium	7440-39-3	127	0.269	1.02		5
06127	Beryllium	7440-41-7	2.07	0.0162	0.102		2
06128	Cadmium	7440-43-9	2.23	0.0447	0.102		2
06131	Chromium	7440-47-3	56.9	0.122	0.406		2
06132	Cobalt	7440-48-4	109	0.0203	0.102		2
06133	Copper	7440-50-8	39.4	0.0812	0.406		2
06135	Lead	7439-92-1	19.1	0.0104	0.203		2
06138	Molybdenum	7439-98-7	18.7	0.0508	0.102		2
06139	Nickel	7440-02-0	39.0	0.102	0.406		2
06141	Selenium	7782-49-2	3.15	0.0589	0.406		2
06142	Silver	7440-22-4	16.6	0.0144	0.102		2
06145	Thallium	7440-28-0	1.08	0.0305	0.102		2
06148	Vanadium	7440-62-2	85.0	0.0223	0.102		2
06149	Zinc	7440-66-6	130	0.569	3.05		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.169	0.0029	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.4	0.84	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	573	9.4	31.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	32.3	1.0	5.2		5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 18:05	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/29/2011 21:34	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1

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Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306837
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17304 SDG#: DE173-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 02:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011 20:58	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 00:53	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 16:55	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/15/2011 16:55	John P Hook	5
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:27	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:35	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 11:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 11:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 11:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:51	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/18/2011 23:58	Ashley M Adams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306837
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11168373204A	06/27/2011 17:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11160243201A	06/10/2011 15:46	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306838
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,300		17	170		1
04688	Acenaphthylene	208-96-8	1,300		17	170		1
04688	Aniline	62-53-3	800		170	520		1
04688	Anthracene	120-12-7	1,300		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,400		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,200		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,100		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,200		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,200		17	170		1
04688	Benzoic acid	65-85-0	980		170	520		1
04688	Benzyl alcohol	100-51-6	1,300		170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,400		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,400		17	170		1
04688	Carbazole	86-74-8	1,300		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		35	170		1
04688	4-Chloroaniline	106-47-8	810		69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,200		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,200		17	170		1
04688	2-Chlorophenol	95-57-8	1,300		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		35	170		1
04688	Chrysene	218-01-9	1,300		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,200		17	170		1
04688	Dibenzofuran	132-64-9	1,300		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,200		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,200		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,200		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	850		100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,300		17	170		1
04688	Diethylphthalate	84-66-2	1,300		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,300		35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,800		35	170		1
04688	Dimethylphthalate	131-11-3	1,300		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	850		170	520		1
04688	2,4-Dinitrophenol	51-28-5	880	J	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,300		35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,300		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500		17	350		1
04688	Fluoranthene	206-44-0	1,300		17	170		1
04688	Fluorene	86-73-7	1,300		17	170		1
04688	Hexachlorobenzene	118-74-1	1,400		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,300		69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	1,500		170	520		1
04688	Hexachloroethane	67-72-1	1,100		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,200		17	170		1
04688	Isophorone	78-59-1	1,300		17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306838
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,300	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,200	17	170		1
04688	2-Methylphenol	95-48-7	1,300	35	170		1
04688	4-Methylphenol	106-44-5	1,100	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,300	17	170		1
04688	2-Nitroaniline	88-74-4	1,400	17	170		1
04688	3-Nitroaniline	99-09-2	1,200	35	170		1
04688	4-Nitroaniline	100-01-6	1,100	69	170		1
04688	Nitrobenzene	98-95-3	1,300	17	170		1
04688	2-Nitrophenol	88-75-5	1,300	17	170		1
04688	4-Nitrophenol	100-02-7	1,000	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,200	35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,400	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,400	17	170		1
04688	Pentachlorophenol	87-86-5	1,000	170	520		1
04688	Phenanthrene	85-01-8	1,300	17	170		1
04688	Phenol	108-95-2	1,200	17	170		1
04688	Pyrene	129-00-0	1,400	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,300	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	31	0.70	1.7		1
10138	Acenaphthylene	208-96-8	32	0.35	1.7		1
10138	Anthracene	120-12-7	33	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	33	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	33	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	41	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	14	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	37	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	39	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	34	6.3	19		1
10138	Chrysene	218-01-9	33	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	17	0.70	1.7		1
10138	Diethylphthalate	84-66-2	38	6.3	19		1
10138	Dimethylphthalate	131-11-3	35	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	78	6.3	19		1
10138	Fluoranthene	206-44-0	37	0.70	1.7		1
10138	Fluorene	86-73-7	33	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	16	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	32	0.70	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306838
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	2-Methylnaphthalene	91-57-6	29		0.70	1.7		1
10138	Naphthalene	91-20-3	32		0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	30		0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	48		6.3	19		1
10138	Phenanthrene	85-01-8	33		0.70	1.7		1
10138	Pyrene	129-00-0	32		0.70	1.7		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 71 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	7.7		1.3	3.8		1
10401	Dalapon	75-99-0	8.2	J	4.6	9.4		1
10401	2,4-DB	94-82-6	5.0		0.65	1.8		1
10401	Dicamba	1918-00-9	0.60	J	0.42	1.3		1
10401	Dinoseb	88-85-7	2.4	J	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.6		0.84	1.8		1
10401	MCPA	94-74-6	460		79	260		1
10401	MCPP (Mecoprop)	93-65-2	310		78	260		1
10401	2,4,5-T	93-76-5	0.27		0.086	0.18		1
10401	2,4,5-TP	93-72-1	0.65		0.078	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.19		0.069	0.18		1
01363	Alpha BHC	319-84-6	0.43		0.036	0.18		1
01363	Beta BHC	319-85-7	0.22		0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.25		0.036	0.18		1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.65		0.069	0.36		1
01363	p,p-DDE	72-55-9	0.66		0.069	0.36		1
01363	p,p-DDT	50-29-3	0.89		0.069	0.36		1
01363	Delta BHC	319-86-8	0.26		0.038	0.18		1
01363	Dieldrin	60-57-1	0.71		0.069	0.36		1
01363	Endosulfan I	959-98-8	0.16	J	0.046	0.18		1
01363	Endosulfan II	33213-65-9	0.40		0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.48		0.069	0.36		1
01363	Endrin	72-20-8	0.66		0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.50		0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.52		0.069	0.36		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306838
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Heptachlor	76-44-8	0.49		0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.21		0.036	0.18		1
01363	Methoxychlor	72-43-5	4.2		0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	15		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	16		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		5.06	20.1		1
07914	Boron	7440-42-8	192		0.895	5.03		1
01650	Calcium	7440-70-2	5,060		6.17	20.1		1
01654	Iron	7439-89-6	29,900		13.1	101		5
01656	Lithium	7439-93-2	125		0.22	2.0		1
01657	Magnesium	7439-95-4	6,210		2.55	10.1		1
06958	Manganese	7439-96-5	479		0.0785	0.503		1
10145	Phosphorus	7723-14-0	649		0.563	10.1		1
01662	Potassium	7440-09-7	6,920		18.1	50.3		1
01667	Sodium	7440-23-5	1,050		37.5	101		1
07968	Strontium	7440-24-6	126		0.0624	0.503		1
06969	Tin	7440-31-5	362		1.01	10.1		1
06970	Titanium	7440-32-6	2,090		0.357	5.03		5
10146	Zirconium	7440-67-7	99.3		0.845	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.14		0.0752	0.203		2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306838
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	12.0	0.0812	0.406		2
06126	Barium	7440-39-3	120	0.269	1.02		5
06127	Beryllium	7440-41-7	1.98	0.0162	0.102		2
06128	Cadmium	7440-43-9	2.05	0.0447	0.102		2
06131	Chromium	7440-47-3	52.7	0.122	0.406		2
06132	Cobalt	7440-48-4	101	0.0203	0.102		2
06133	Copper	7440-50-8	37.1	0.0812	0.406		2
06135	Lead	7439-92-1	18.0	0.0104	0.203		2
06138	Molybdenum	7439-98-7	17.5	0.0508	0.102		2
06139	Nickel	7440-02-0	36.6	0.102	0.406		2
06141	Selenium	7782-49-2	3.04	0.0589	0.406		2
06142	Silver	7440-22-4	15.7	0.0144	0.102		2
06145	Thallium	7440-28-0	1.02	0.0305	0.102		2
06148	Vanadium	7440-62-2	80.8	0.0223	0.102		2
06149	Zinc	7440-66-6	123	0.569	3.05		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172	0.0028	0.0990		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 18:31	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/29/2011 22:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 02:41	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011 21:12	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 01:12	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306838
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 16:58	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/15/2011 16:58	John P Hook	5
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:31	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 21:27	David K Beck	5
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 11:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 11:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 11:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:54	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306839
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,100		5.16	20.5		1
07914	Boron	7440-42-8	0.913	U	0.913	5.13		1
01650	Calcium	7440-70-2	4,810		6.29	20.5		1
01654	Iron	7439-89-6	27,100		13.4	103		5
01656	Lithium	7439-93-2	27.4		0.23	2.1		1
01657	Magnesium	7439-95-4	6,640		2.60	10.3		1
06958	Manganese	7439-96-5	430		0.0800	0.513		1
10145	Phosphorus	7723-14-0	533		0.574	10.3		1
01662	Potassium	7440-09-7	6,320		18.5	51.3		1
01667	Sodium	7440-23-5	101	J	38.3	103		1
07968	Strontium	7440-24-6	28.2		0.0636	0.513		1
06969	Tin	7440-31-5	3.31	J	1.03	10.3		1
06970	Titanium	7440-32-6	1,560		0.390	1.03		1
10146	Zirconium	7440-67-7	8.20		0.861	5.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.291		0.0759	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.19		0.0820	0.410		2
06126	Barium	7440-39-3	111		0.109	0.410		2
06127	Beryllium	7440-41-7	0.629		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.326		0.0451	0.103		2
06131	Chromium	7440-47-3	27.6		0.123	0.410		2
06132	Cobalt	7440-48-4	9.36		0.0205	0.103		2
06133	Copper	7440-50-8	14.4		0.0820	0.410		2
06135	Lead	7439-92-1	8.94		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.687		0.0513	0.103		2
06139	Nickel	7440-02-0	17.2		0.103	0.410		2
06141	Selenium	7782-49-2	0.199	J	0.0595	0.410		2
06142	Silver	7440-22-4	0.0341	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.317		0.0308	0.103		2
06148	Vanadium	7440-62-2	45.8		0.0226	0.103		2
06149	Zinc	7440-66-6	72.8		0.574	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-155-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306839
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.03	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 16:52	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 11:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 11:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 11:42	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306839
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17304 SDG#: DE173-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 11:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:50	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/18/2011 23:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 14:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11160243201A	06/10/2011 16:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306840
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17305 SDG#: DE173-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	44	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306840
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17305 SDG#: DE173-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.3		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	3.0		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	4.5		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.90	J	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.0	J	0.74	1.9		1
10138	Naphthalene	91-20-3	1.5	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	3.4		0.74	1.9		1
10138	Pyrene	129-00-0	2.9		0.74	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	4.7	U	4.7	4.7		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	250	U	250	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

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Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306840
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17305 SDG#: DE173-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.068	U	0.068	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	4.7		0.89	3.8		1
01363	p,p-DDD	72-54-8	0.44		0.074	0.38		1
01363	p,p-DDE	72-55-9	0.40		0.074	0.38		1
01363	p,p-DDT	50-29-3	0.27	J	0.074	0.38		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.14	J	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306840
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17305 SDG#: DE173-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.2	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.44	21.6		1
07914	Boron	7440-42-8	0.963	U	0.963	5.41		1
01650	Calcium	7440-70-2	3,700		6.63	21.6		1
01654	Iron	7439-89-6	26,400		5.10	21.6		1
01656	Lithium	7439-93-2	22.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,710		2.75	10.8		1
06958	Manganese	7439-96-5	400		0.0844	0.541		1
10145	Phosphorus	7723-14-0	587		0.606	10.8		1
01662	Potassium	7440-09-7	5,470		19.5	54.1		1
01667	Sodium	7440-23-5	79.6	J	40.4	108		1
07968	Strontium	7440-24-6	27.0		0.0671	0.541		1
06969	Tin	7440-31-5	3.31	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,500		0.411	1.08		1
10146	Zirconium	7440-67-7	7.03		0.909	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.335		0.0817	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.51		0.0883	0.442		2
06126	Barium	7440-39-3	146		0.117	0.442		2
06127	Beryllium	7440-41-7	0.794		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.384		0.0486	0.110		2
06131	Chromium	7440-47-3	38.9		0.132	0.442		2
06132	Cobalt	7440-48-4	12.8		0.0221	0.110		2
06133	Copper	7440-50-8	17.4		0.0883	0.442		2
06135	Lead	7439-92-1	13.0		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.971		0.0552	0.110		2
06139	Nickel	7440-02-0	26.2		0.110	0.442		2
06141	Selenium	7782-49-2	0.226	J	0.0640	0.442		2
06142	Silver	7440-22-4	0.0398	J	0.0157	0.110		2
06145	Thallium	7440-28-0	0.373		0.0331	0.110		2
06148	Vanadium	7440-62-2	60.4		0.0243	0.110		2
06149	Zinc	7440-66-6	92.7		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0247	J	0.0030	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89	U	0.89	1.1		1

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Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306840
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17305 SDG#: DE173-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.93		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 20:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 09:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 04:31	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011 21:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 01:30	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1

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Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
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SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306840
LLI Group # 1249957
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17305 SDG#: DE173-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 17:57	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:58	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 00:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 16:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 16:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306841
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17306 SDG#: DE173-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	61	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306841
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17306 SDG#: DE173-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.8	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.8	J	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.99	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.2	J	0.74	1.9		1
10138	Pyrene	129-00-0	1.3	J	0.74	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: di-n-butylphthalate							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	2.1	U	2.1	2.1		1
10401	Dicamba	1918-00-9	0.46	J	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	84	U	84	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.084	U	0.084	0.19		1
	Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method							

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Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306841
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17306 SDG#: DE173-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	3.5	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.38		1
01363	p,p-DDE	72-55-9	0.53		0.074	0.38		1
01363	p,p-DDT	50-29-3	0.39	U	0.39	0.39		1
01363	Delta BHC	319-86-8	0.048	J	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.10	U	0.10	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.089	U	0.089	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from PCB and the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.3	J	0.44	1.9		1

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Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306841
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

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Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17306 SDG#: DE173-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	4,300		6.59	21.5		1
01654	Iron	7439-89-6	27,800		5.07	21.5		1
01656	Lithium	7439-93-2	23.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,880		2.73	10.8		1
06958	Manganese	7439-96-5	398		0.0839	0.538		1
10145	Phosphorus	7723-14-0	625		0.602	10.8		1
01662	Potassium	7440-09-7	5,840		19.4	53.8		1
01667	Sodium	7440-23-5	90.7	J	40.1	108		1
07968	Strontium	7440-24-6	26.6		0.0667	0.538		1
06969	Tin	7440-31-5	3.24	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,500		0.409	1.08		1
10146	Zirconium	7440-67-7	7.81		0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.341		0.0804	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.88		0.0869	0.434		2
06126	Barium	7440-39-3	140		0.115	0.434		2
06127	Beryllium	7440-41-7	0.824		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.330		0.0478	0.109		2
06131	Chromium	7440-47-3	36.7		0.130	0.434		2
06132	Cobalt	7440-48-4	12.5		0.0217	0.109		2
06133	Copper	7440-50-8	17.4		0.0869	0.434		2
06135	Lead	7439-92-1	13.2		0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.810		0.0543	0.109		2
06139	Nickel	7440-02-0	23.8		0.109	0.434		2
06141	Selenium	7782-49-2	0.253	J	0.0630	0.434		2
06142	Silver	7440-22-4	0.0381	J	0.0154	0.109		2
06145	Thallium	7440-28-0	0.358		0.0326	0.109		2
06148	Vanadium	7440-62-2	59.3		0.0239	0.109		2
06149	Zinc	7440-66-6	94.0		0.608	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0110	J	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1

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Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306841
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17306 SDG#: DE173-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 20:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 09:35	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 05:54	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011 21:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 01:49	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306841
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17306 SDG#: DE173-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:00	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 13:59	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 01:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 16:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11160243201A	06/10/2011 16:55	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306842
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17307 SDG#: DE173-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

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Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306842
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17307 SDG#: DE173-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.6		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.5	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	1.5	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.97	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.4	J	0.72	1.8		1
10138	Pyrene	129-00-0	1.0	J	0.72	1.8		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7		1
10401	2,4-DB	94-82-6	3.6	U	3.6	3.6		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8		1
10401	MCPA	94-74-6	82	U	82	270		1
10401	MCPP (Mecoprop)	93-65-2	81	U	81	270		1
10401	2,4,5-T	93-76-5	0.089	U	0.089	0.18		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306842
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17307 SDG#: DE173-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	2.1	J	0.86	3.7		1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37		1
01363	p,p-DDE	72-55-9	0.60		0.071	0.37		1
01363	p,p-DDT	50-29-3	0.35	J	0.071	0.37		1
01363	Delta BHC	319-86-8	0.058	J	0.039	0.18		1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37		1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.092	U	0.092	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37		1
01363	Endrin	72-20-8	0.071	U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.071	U	0.071	0.37		1
01363	Endrin Ketone	53494-70-5	0.084	J	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.037	U	0.037	0.18		1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.37		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
	Reporting limits were raised due to interference from PCB.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306842
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17307 SDG#: DE173-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.1	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		5.33	21.2		1
07914	Boron	7440-42-8	0.943	U	0.943	5.30		1
01650	Calcium	7440-70-2	4,510		6.50	21.2		1
01654	Iron	7439-89-6	27,500		4.99	21.2		1
01656	Lithium	7439-93-2	24.1		0.23	2.1		1
01657	Magnesium	7439-95-4	6,110		2.69	10.6		1
06958	Manganese	7439-96-5	403		0.0827	0.530		1
10145	Phosphorus	7723-14-0	687		0.594	10.6		1
01662	Potassium	7440-09-7	6,090		19.1	53.0		1
01667	Sodium	7440-23-5	87.7	J	39.5	106		1
07968	Strontium	7440-24-6	27.2		0.0657	0.530		1
06969	Tin	7440-31-5	3.26	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,530		0.403	1.06		1
10146	Zirconium	7440-67-7	7.90		0.890	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.288		0.0784	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.29		0.0848	0.424		2
06126	Barium	7440-39-3	107		0.112	0.424		2
06127	Beryllium	7440-41-7	0.655		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.277		0.0466	0.106		2
06131	Chromium	7440-47-3	31.9		0.127	0.424		2
06132	Cobalt	7440-48-4	10.5		0.0212	0.106		2
06133	Copper	7440-50-8	13.8		0.0848	0.424		2
06135	Lead	7439-92-1	10.2		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.678		0.0530	0.106		2
06139	Nickel	7440-02-0	20.6		0.106	0.424		2
06141	Selenium	7782-49-2	0.242	J	0.0615	0.424		2
06142	Silver	7440-22-4	0.0290	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.296		0.0318	0.106		2
06148	Vanadium	7440-62-2	51.8		0.0233	0.106		2
06149	Zinc	7440-66-6	79.2		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306842
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17307 SDG#: DE173-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.7	U	9.7	32.4		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	7.29		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	7.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011	21:01	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011	10:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011	10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011	06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011	06:21	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/24/2011	23:52	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011	02:07	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011	16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011	18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011	18:04	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011	18:04	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011	18:04	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/14/2011	18:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011	18:04	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011	18:04	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011	18:04	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306842
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17307 SDG#: DE173-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:04	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:04	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:04	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:04	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:04	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:04	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:04	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:00	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 01:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 17:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 17:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306843
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17308 SDG#: DE173-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	31	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306843
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17308 SDG#: DE173-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.9	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	3.2		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	4.4		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	2.9		0.75	1.9		1
10138	Pyrene	129-00-0	3.4		0.75	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	1.5	U	1.5	1.9		1
10401	Dicamba	1918-00-9	0.45	U	0.45	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	85	U	85	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

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Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306843
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17308 SDG#: DE173-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	3.3	J	0.90	3.8		1
01363	p,p-DDD	72-54-8	0.074	U	0.074	0.38		1
01363	p,p-DDE	72-55-9	1.1	U	1.1	1.1		1
01363	p,p-DDT	50-29-3	0.81	U	0.81	0.81		1
01363	Delta BHC	319-86-8	0.067	J	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.074	U	0.074	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.19	U	0.19	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.089	U	0.089	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix and PCB.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	3.4	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.4		0.44	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306843
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17308 SDG#: DE173-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		5.43	21.6		1
07914	Boron	7440-42-8	0.960	U	0.960	5.40		1
01650	Calcium	7440-70-2	4,250		6.62	21.6		1
01654	Iron	7439-89-6	28,900		14.1	108		5
01656	Lithium	7439-93-2	24.1		0.24	2.2		1
01657	Magnesium	7439-95-4	5,930		2.74	10.8		1
06958	Manganese	7439-96-5	403		0.0842	0.540		1
10145	Phosphorus	7723-14-0	618		0.604	10.8		1
01662	Potassium	7440-09-7	5,700		19.4	54.0		1
01667	Sodium	7440-23-5	93.5	J	40.3	108		1
07968	Strontium	7440-24-6	29.0		0.0669	0.540		1
06969	Tin	7440-31-5	3.40	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,480		0.410	1.08		1
10146	Zirconium	7440-67-7	7.98		0.907	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.258		0.0806	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.21		0.0872	0.436		2
06126	Barium	7440-39-3	114		0.116	0.436		2
06127	Beryllium	7440-41-7	0.663		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.276		0.0479	0.109		2
06131	Chromium	7440-47-3	30.7		0.131	0.436		2
06132	Cobalt	7440-48-4	9.90		0.0218	0.109		2
06133	Copper	7440-50-8	13.1		0.0872	0.436		2
06135	Lead	7439-92-1	10.8		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.725		0.0545	0.109		2
06139	Nickel	7440-02-0	16.3		0.109	0.436		2
06141	Selenium	7782-49-2	0.223	J	0.0632	0.436		2
06142	Silver	7440-22-4	0.0268	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.296		0.0327	0.109		2
06148	Vanadium	7440-62-2	53.8		0.0240	0.109		2
06149	Zinc	7440-66-6	77.2		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0261	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90	U	0.90	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306843
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17308 SDG#: DE173-08

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.1	U	10.1	33.7		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	7.18		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	10.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011	21:27	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011	10:39	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011	10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011	06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011	06:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/25/2011	00:07	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011	02:26	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011	16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011	18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011	18:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011	18:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011	18:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011	17:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011	18:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011	18:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011	18:08	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306843
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17308 SDG#: DE173-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:08	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:08	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:01	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 02:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 17:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 17:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306844
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17309 SDG#: DE173-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306844
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17309 SDG#: DE173-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	1.1	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.71	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.8	U	1.8	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8		1
10401	MCPA	94-74-6	330		78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306844
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17309 SDG#: DE173-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. Due to interfering peaks on the chromatogram, the values reported for 2,4-D represent the lowest reporting limits attainable.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.1	J	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.16	J	0.068	0.35		1
01363	p,p-DDT	50-29-3	0.17	U	0.17	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.064	J	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.096	U	0.096	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix and PCB.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306844
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17309 SDG#: DE173-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.11	20.3		1
07914	Boron	7440-42-8	0.904	U	0.904	5.08		1
01650	Calcium	7440-70-2	4,080		6.23	20.3		1
01654	Iron	7439-89-6	27,000		13.3	102		5
01656	Lithium	7439-93-2	24.0		0.22	2.0		1
01657	Magnesium	7439-95-4	5,560		2.58	10.2		1
06958	Manganese	7439-96-5	357		0.0792	0.508		1
10145	Phosphorus	7723-14-0	459		0.569	10.2		1
01662	Potassium	7440-09-7	4,940		18.3	50.8		1
01667	Sodium	7440-23-5	108		37.9	102		1
07968	Strontium	7440-24-6	29.8		0.0630	0.508		1
06969	Tin	7440-31-5	3.29	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,480		0.386	1.02		1
10146	Zirconium	7440-67-7	8.17		0.853	5.08		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.310		0.0737	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.50		0.0797	0.399		2
06126	Barium	7440-39-3	127		0.106	0.399		2
06127	Beryllium	7440-41-7	0.773		0.0159	0.0996		2
06128	Cadmium	7440-43-9	0.263		0.0438	0.0996		2
06131	Chromium	7440-47-3	29.3		0.120	0.399		2
06132	Cobalt	7440-48-4	9.97		0.0199	0.0996		2
06133	Copper	7440-50-8	15.9		0.0797	0.399		2
06135	Lead	7439-92-1	8.93		0.0102	0.199		2
06138	Molybdenum	7439-98-7	0.822		0.0498	0.0996		2
06139	Nickel	7440-02-0	15.4		0.0996	0.399		2
06141	Selenium	7782-49-2	0.257	J	0.0578	0.399		2
06142	Silver	7440-22-4	0.0232	J	0.0141	0.0996		2
06145	Thallium	7440-28-0	0.313		0.0299	0.0996		2
06148	Vanadium	7440-62-2	51.2		0.0219	0.0996		2
06149	Zinc	7440-66-6	76.1		0.558	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0165	J	0.0028	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.21	1.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306844
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17309 SDG#: DE173-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.05	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 21:52	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 11:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 07:16	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/25/2011 00:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 02:44	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 17:12	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1

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Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306844
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17309 SDG#: DE173-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:02	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 02:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 17:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11160243201A	06/10/2011 17:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403A	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-162-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306845
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-10 SDG#: DE173-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-162-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306845
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-10 SDG#: DE173-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	1.8	U	1.8	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.89	U	0.89	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	U	0.89	1.9		1
10401	MCPA	94-74-6	370		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

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Sample Description: SL-162-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306845
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-10 SDG#: DE173-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.074	U	0.074	0.19		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.19		1
01363	Beta BHC	319-85-7	0.14	J	0.067	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.19		1
01363	Chlordane	57-74-9	4.7		0.89	3.8		1
01363	p,p-DDD	72-54-8	0.31	J	0.074	0.38		1
01363	p,p-DDE	72-55-9	0.52	U	0.52	0.52		1
01363	p,p-DDT	50-29-3	0.51		0.074	0.38		1
01363	Delta BHC	319-86-8	0.042	J	0.040	0.19		1
01363	Dieldrin	60-57-1	0.074	U	0.074	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.19		1
01363	Endosulfan II	33213-65-9	0.086	U	0.086	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.074	U	0.074	0.38		1
01363	Endrin	72-20-8	0.074	U	0.074	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.074	U	0.074	0.38		1
01363	Endrin Ketone	53494-70-5	0.074	U	0.074	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.060	U	0.060	0.19		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.9		1
01363	Mirex	2385-85-5	0.074	U	0.074	0.38		1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.4		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix and PCB.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.3	J	0.43	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306845
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-10 SDG#: DE173-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,900		5.44	21.6		1
07914	Boron	7440-42-8	0.963	U	0.963	5.41		1
01650	Calcium	7440-70-2	4,920		6.63	21.6		1
01654	Iron	7439-89-6	29,700		14.1	108		5
01656	Lithium	7439-93-2	26.6		0.24	2.2		1
01657	Magnesium	7439-95-4	6,920		2.75	10.8		1
06958	Manganese	7439-96-5	366		0.0844	0.541		1
10145	Phosphorus	7723-14-0	524		0.606	10.8		1
01662	Potassium	7440-09-7	6,930		19.5	54.1		1
01667	Sodium	7440-23-5	98.6	J	40.4	108		1
07968	Strontium	7440-24-6	34.6		0.0671	0.541		1
06969	Tin	7440-31-5	3.70	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,630		0.411	1.08		1
10146	Zirconium	7440-67-7	8.35		0.909	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.326		0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.63		0.0858	0.429		2
06126	Barium	7440-39-3	142		0.114	0.429		2
06127	Beryllium	7440-41-7	0.842		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.203		0.0472	0.107		2
06131	Chromium	7440-47-3	32.5		0.129	0.429		2
06132	Cobalt	7440-48-4	12.3		0.0214	0.107		2
06133	Copper	7440-50-8	22.3		0.0858	0.429		2
06135	Lead	7439-92-1	11.6		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.773		0.0536	0.107		2
06139	Nickel	7440-02-0	18.3		0.107	0.429		2
06141	Selenium	7782-49-2	0.270	J	0.0622	0.429		2
06142	Silver	7440-22-4	0.0322	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.439		0.0322	0.107		2
06148	Vanadium	7440-62-2	61.6		0.0236	0.107		2
06149	Zinc	7440-66-6	89.7		0.600	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0274	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-162-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306845
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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73-10 SDG#: DE173-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.15	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/14/2011 22:17	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 11:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 07:43	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/25/2011 01:05	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 03:03	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 17:15	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1

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LLI Sample # SW 6306845
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73-10 SDG#: DE173-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:15	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 21:29	David K Beck	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:04	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203A	06/19/2011 02:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204A	06/19/2011 18:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 17:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203A	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204A	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306846
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-11 SDG#: DE173-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306846
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-11 SDG#: DE173-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.86	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.92	J	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	2.7		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	2.3		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	1.4	J	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.6	J	0.74	1.9		1
10138	Pyrene	129-00-0	1.6	J	0.74	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	4.0		1
10401	Dalapon	75-99-0	4.9	U	4.9	10		1
10401	2,4-DB	94-82-6	0.88	U	0.88	1.9		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.3		1
10401	Dinoseb	88-85-7	0.88	U	0.88	2.7		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.88	U	0.88	1.9		1
10401	MCPA	94-74-6	500		84	280		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	280		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.19		1
10401	2,4,5-TP	93-72-1	0.083	U	0.083	0.19		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

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Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306846
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-11 SDG#: DE173-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.073	U	0.073	0.18		1
01363	Alpha BHC	319-84-6	0.038	U	0.038	0.18		1
01363	Beta BHC	319-85-7	0.067	U	0.067	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.038	U	0.038	0.18		1
01363	Chlordane	57-74-9	1.1	J	0.89	3.8		1
01363	p,p-DDD	72-54-8	0.073	U	0.073	0.38		1
01363	p,p-DDE	72-55-9	0.37	U	0.37	0.38		1
01363	p,p-DDT	50-29-3	0.46	U	0.46	0.46		1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.18		1
01363	Dieldrin	60-57-1	0.073	U	0.073	0.38		1
01363	Endosulfan I	959-98-8	0.049	U	0.049	0.18		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.38		1
01363	Endrin	72-20-8	0.073	U	0.073	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.13	J	0.073	0.38		1
01363	Endrin Ketone	53494-70-5	0.073	U	0.073	0.38		1
01363	Heptachlor	76-44-8	0.067	U	0.067	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.18		1
01363	Methoxychlor	72-43-5	0.38	U	0.38	1.8		1
01363	Mirex	2385-85-5	0.073	U	0.073	0.38		1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.3		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. The TCX surrogate recovery for this sample is outside the lower QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts with the exception of DDT. DDT was detected at .98 ug/kg in the reextract. Reporting limits were raised due to interference from the sample matrix and PCB.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	4.6		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

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Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306846
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-11 SDG#: DE173-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	3.0		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,800		5.44	21.6		1
07914	Boron	7440-42-8	0.962	U	0.962	5.41		1
01650	Calcium	7440-70-2	9,480		6.63	21.6		1
01654	Iron	7439-89-6	29,400		14.1	108		5
01656	Lithium	7439-93-2	23.4		0.24	2.2		1
01657	Magnesium	7439-95-4	7,210		2.75	10.8		1
06958	Manganese	7439-96-5	443		0.0843	0.541		1
10145	Phosphorus	7723-14-0	718		0.605	10.8		1
01662	Potassium	7440-09-7	6,840		19.5	54.1		1
01667	Sodium	7440-23-5	87.7	J	40.3	108		1
07968	Strontium	7440-24-6	29.5		0.0670	0.541		1
06969	Tin	7440-31-5	3.40	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,410		0.411	1.08		1
10146	Zirconium	7440-67-7	6.51		0.908	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.595		0.0792	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.2		0.0857	0.428		2
06126	Barium	7440-39-3	182		0.114	0.428		2
06127	Beryllium	7440-41-7	0.983		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.646		0.0471	0.107		2
06131	Chromium	7440-47-3	39.0		0.128	0.428		2
06132	Cobalt	7440-48-4	14.6		0.0214	0.107		2
06133	Copper	7440-50-8	26.4		0.0857	0.428		2
06135	Lead	7439-92-1	48.6		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.931		0.0535	0.107		2
06139	Nickel	7440-02-0	25.5		0.107	0.428		2
06141	Selenium	7782-49-2	0.267	J	0.0621	0.428		2
06142	Silver	7440-22-4	0.0656	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.404		0.0321	0.107		2
06148	Vanadium	7440-62-2	70.5		0.0236	0.107		2
06149	Zinc	7440-66-6	132		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0316	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.89	1.1		1

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Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306846
LLI Group # 1249957
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Project Name: SSFL Area IV Collocated Soil Sampling

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73-11 SDG#: DE173-11

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.0	U	10.0	33.4		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.22	U	0.22	1.1		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	7.71		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	10.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011	01:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011	12:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011	10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011	06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011	08:11	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/25/2011	01:47	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011	03:21	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011	16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011	18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011	18:19	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011	18:19	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011	18:19	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011	17:18	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011	18:19	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011	18:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011	18:19	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306846
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-11 SDG#: DE173-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:19	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:19	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:19	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:19	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:19	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:19	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:19	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:05	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 02:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 18:43	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 17:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	179	U	179	358		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.0		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.7		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.1		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.9	J	6.4	19		1
10138	Chrysene	218-01-9	4.9		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	6.1		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.9		0.72	1.8		1
10138	Pyrene	129-00-0	4.2		0.72	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: di-n-butylphthalate							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6		1
10401	2,4-DB	94-82-6	3.7	U	3.7	3.7		1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	220	J	81	270		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported.
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
compounds were affected: 2,4-DB.								
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	1,500	J	640	1,600		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18		1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18		1
01363	Chlordane	57-74-9	4.0		0.86	3.7		1
01363	p,p-DDD	72-54-8	1.5	U	1.5	3.7		10
01363	p,p-DDE	72-55-9	4.9	U	4.9	4.9		10
01363	p,p-DDT	50-29-3	63		1.8	9.1		25
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18		1
01363	Dieldrin	60-57-1	18	U	18	18		10
01363	Endosulfan I	959-98-8	0.47	U	0.47	1.8		10
01363	Endosulfan II	33213-65-9	1.8	U	1.8	3.7		10
01363	Endosulfan Sulfate	1031-07-8	0.97	U	0.97	3.7		10
01363	Endrin	72-20-8	8.2	U	8.2	8.2		10
01363	Endrin Aldehyde	7421-93-4	21		1.8	9.1		25
01363	Endrin Ketone	53494-70-5	0.71	U	0.71	3.7		10
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.37	U	0.37	1.8		10
01363	Methoxychlor	72-43-5	3.7	U	3.7	18		10
01363	Mirex	2385-85-5	0.71	U	0.71	3.7		10
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts with the exception of DDT and endrin aldehyde. DDT was detected at 29 ug/kg and endrin aldehyde at 8.8 ug/kg for the reextract.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	21	U	21	71		20
10225	Aroclor 5442	12642-23-8	21	U	21	71		20
10225	Aroclor 5460	11126-42-4	21	U	21	71		20
10225	PCB-1016	12674-11-2	7.1	U	7.1	37		20
10225	PCB-1221	11104-28-2	7.1	U	7.1	37		20
10225	PCB-1232	11141-16-5	7.1	U	7.1	37		20
10225	PCB-1242	53469-21-9	7.1	U	7.1	37		20
10225	PCB-1248	12672-29-6	7.1	U	7.1	37		20
10225	PCB-1254	11097-69-1	7.1	U	7.1	37		20
10225	PCB-1260	11096-82-5	300		8.4	37		20

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	7.1	U	7.1	37		20
10225	PCB-1268	11100-14-4	7.1	U	7.1	37		20
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	7.4	J	4.3	13		10
10199	EFH (C21-C30)	n.a.	160		4.3	13		10
10199	EFH (C30 - C40)	n.a.	300		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,700		5.30	21.1		1
07914	Boron	7440-42-8	0.937	U	0.937	5.27		1
01650	Calcium	7440-70-2	6,710		6.46	21.1		1
01654	Iron	7439-89-6	28,800		13.7	105		5
01656	Lithium	7439-93-2	21.6		0.23	2.1		1
01657	Magnesium	7439-95-4	5,790		2.67	10.5		1
06958	Manganese	7439-96-5	484		0.0821	0.527		1
10145	Phosphorus	7723-14-0	316		0.590	10.5		1
01662	Potassium	7440-09-7	4,750		19.0	52.7		1
01667	Sodium	7440-23-5	94.7	J	39.3	105		1
07968	Strontium	7440-24-6	35.8		0.0653	0.527		1
06969	Tin	7440-31-5	3.47	J	1.05	10.5		1
06970	Titanium	7440-32-6	1,490		0.400	1.05		1
10146	Zirconium	7440-67-7	7.81		0.885	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.575		0.0779	0.211		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.67		0.0842	0.421		2
06126	Barium	7440-39-3	150		0.112	0.421		2
06127	Beryllium	7440-41-7	0.814		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.696		0.0463	0.105		2
06131	Chromium	7440-47-3	30.4		0.126	0.421		2
06132	Cobalt	7440-48-4	12.5		0.0211	0.105		2
06133	Copper	7440-50-8	20.3		0.0842	0.421		2
06135	Lead	7439-92-1	25.1		0.0107	0.211		2
06138	Molybdenum	7439-98-7	0.797		0.0527	0.105		2
06139	Nickel	7440-02-0	19.5		0.105	0.421		2
06141	Selenium	7782-49-2	0.208	J	0.0611	0.421		2
06142	Silver	7440-22-4	0.0572	J	0.0150	0.105		2
06145	Thallium	7440-28-0	0.326		0.0316	0.105		2
06148	Vanadium	7440-62-2	56.5		0.0232	0.105		2
06149	Zinc	7440-66-6	246		1.47	7.90		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0657	J	0.0029	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.5		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/28/2011 12:44	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011 02:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 12:48	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/19/2011 00:10	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/11/2011 20:24	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011 08:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/25/2011 04:23	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/25/2011 04:37	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	07/01/2011 06:44	Melissa McDermott	25
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 03:40	Sarah M Snyder	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011 16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 16:08	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 23:06	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 19:04	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 05:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 17:22	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1

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Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:23	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 21:31	David K Beck	5
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:08	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 03:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621203B	06/19/2011 03:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 20:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 17:58	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:08	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-207-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306847
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

73-12 SDG#: DE173-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306848
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17313 SDG#: DE173-13FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306848
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17313 SDG#: DE173-13FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.79	J	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	3.5		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.82	J	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.9		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	2.5		0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.88	J	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.7	J	0.70	1.7		1
10138	Pyrene	129-00-0	1.5	J	0.70	1.7		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	4.6	U	4.6	4.6		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	79	U	79	260		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.48	U	0.48	0.48		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

Target analytes were detected in the method blank associated with the sample as noted on the QC Summary. The sample was re-extracted outside of the method

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Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306848
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17313 SDG#: DE173-13FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	required holding time, and the method blank results again have target analytes detected. The hold time had expired prior to the second extraction. The client was notified and the original extraction data is reported. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-T and 2,4-DB.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1
01363	Chlordane	57-74-9	4.0		0.84	3.6		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36		1
01363	p,p-DDE	72-55-9	0.45	U	0.45	0.45		1
01363	p,p-DDT	50-29-3	0.30	U	0.30	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.069	U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.36		1
01363	Endrin Ketone	53494-70-5	0.075	J	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The LCS recovery for heptachlor and gamma chlordane is outside the upper QC limit. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from PCB.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	1.6	J	0.41	1.8		1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306848
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17313 SDG#: DE173-13FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		5.07	20.2		1
07914	Boron	7440-42-8	0.897	U	0.897	5.04		1
01650	Calcium	7440-70-2	4,440		6.18	20.2		1
01654	Iron	7439-89-6	26,400		13.2	101		5
01656	Lithium	7439-93-2	24.9		0.22	2.0		1
01657	Magnesium	7439-95-4	6,170		2.56	10.1		1
06958	Manganese	7439-96-5	428		0.0786	0.504		1
10145	Phosphorus	7723-14-0	575		0.564	10.1		1
01662	Potassium	7440-09-7	5,850		18.1	50.4		1
01667	Sodium	7440-23-5	92.0	J	37.6	101		1
07968	Strontium	7440-24-6	28.3		0.0625	0.504		1
06969	Tin	7440-31-5	3.19	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,510		0.383	1.01		1
10146	Zirconium	7440-67-7	7.67		0.847	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.252		0.0760	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.29		0.0822	0.411		2
06126	Barium	7440-39-3	116		0.109	0.411		2
06127	Beryllium	7440-41-7	0.636		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.365		0.0452	0.103		2
06131	Chromium	7440-47-3	27.8		0.123	0.411		2
06132	Cobalt	7440-48-4	9.72		0.0206	0.103		2
06133	Copper	7440-50-8	14.7		0.0822	0.411		2
06135	Lead	7439-92-1	8.67		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.736		0.0514	0.103		2
06139	Nickel	7440-02-0	17.7		0.103	0.411		2
06141	Selenium	7782-49-2	0.204	J	0.0596	0.411		2
06142	Silver	7440-22-4	0.0381	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.298		0.0308	0.103		2
06148	Vanadium	7440-62-2	47.4		0.0226	0.103		2
06149	Zinc	7440-66-6	75.6		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0175	J	0.0028	0.0989		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1

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Analysis Report

Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306848
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17313 SDG#: DE173-13FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0		1
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.06	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	4.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011	02:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011	13:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011	10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011	06:50	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	111660015A	06/18/2011	09:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	111610002A	06/25/2011	03:54	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011	03:58	Sarah M Snyder	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	111610002A	06/10/2011	16:45	JoElla L Rice	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011	18:30	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	111660015A	06/16/2011	02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011	17:31	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011	18:34	John P Hook	1

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Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306848
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17313 SDG#: DE173-13FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:34	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:34	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:34	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:09	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 03:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 20:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 18:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: EB14-SA5DN-SB-060311 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5DN-SB-060311

LLI Sample # WW 6306849
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17314 SDG#: DE173-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	22	U	22	66		1
04678	Benzoic acid	65-85-0	7	U	7	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

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Analysis Report

Sample Description: EB14-SA5DN-SB-060311 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5DN-SB-060311

LLI Sample # WW 6306849
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17314 SDG#: DE173-14EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.067	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.051	U	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.057	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.028	J	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.026	J	0.010	0.051		1
10137	Naphthalene	91-20-3	0.15		0.031	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1

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Analysis Report

Sample Description: EB14-SA5DN-SB-060311 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5DN-SB-060311

LLI Sample # WW 6306849
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17314 SDG#: DE173-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000064 J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046 U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.3	0.010	0.010		1

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Sample Description: **EB14-SA5DN-SB-060311 Water**
SSFL Area IV Collocated Soil Sampling
EB14-SA5DN-SB-060311

LLI Sample # WW 6306849
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:45

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17314 SDG#: DE173-14EB

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11158WAI026	06/14/2011 14:19	Linda M Hartenstine	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11157WAE026	06/22/2011 05:24	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11158WAI026	06/08/2011 09:30	Cynthia J Salvatori	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11157WAE026	06/06/2011 16:15	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111570021A	06/08/2011 06:36	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111570021A	06/07/2011 03:30	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111601848003	06/12/2011 07:21	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111601848003	06/10/2011 13:04	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111606050001D	06/14/2011 13:08	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111606050001C	06/14/2011 13:08	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111606050001B	06/14/2011 13:08	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111606050001A	06/14/2011 13:08	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111605713002	06/11/2011 10:33	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111601848003	06/09/2011 20:30	Mirit S Shenouda	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **EB14-SA5DN-SB-060311 Water**
SSFL Area IV Collocated Soil Sampling
EB14-SA5DN-SB-060311

LLI Sample # WW 6306849
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:45

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

17314 SDG#: DE173-14EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111606050001	06/09/2011 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111605713002	06/09/2011 15:25	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11161196601B	06/20/2011 02:49	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11165621702A	06/15/2011 19:11	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11155621301A	06/04/2011 12:16	Elyse P Brunstetter	1
00200	18b pH by 9040B	SW-846 9040B	1	11158020003A	06/07/2011 19:50	Luz M Groff	1

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Analysis Report

Sample Description: EB13-SA5DN-SS-060311 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306850
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 13:30

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17315 SDG#: DE173-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	63		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	32		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1

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Analysis Report

Sample Description: EB13-SA5DN-SS-060311 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306850
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 13:30

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17315 SDG#: DE173-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.065	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.053	U	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.055	J	0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.026	J	0.011	0.053		1
10137	2-Methylnaphthalene	91-57-6	0.026	J	0.011	0.053		1
10137	Naphthalene	91-20-3	0.16		0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	0.053	U	0.053	1.1		1
10137	Phenanthrene	85-01-8	0.011	U	0.011	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	2,4-D	94-75-7	0.18	U	0.18	0.56		1
10407	Dalapon	75-99-0	0.28	U	0.28	1.4		1
10407	2,4-DB	94-82-6	0.34	U	0.34	1.1		1
10407	Dicamba	1918-00-9	0.090	U	0.090	0.34		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.56		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.18	U	0.18	0.56		1
10407	MCPA	94-74-6	340	U	340	1,100		1
10407	MCPP	93-65-2	56	U	56	220		1
10407	2,4,5-T	93-76-5	0.017	U	0.017	0.056		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.056		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52		1

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Sample Description: EB13-SA5DN-SS-060311 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306850
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 13:30

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17315 SDG#: DE173-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
00177	p,p-DDD	72-54-8	0.0052 U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0052 U	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052 U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030 U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055 U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0045 U	0.0045	0.010		1
00177	Endosulfan II	33213-65-9	0.016 U	0.016	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060 U	0.0060	0.021		1
00177	Endrin	72-20-8	0.0084 U	0.0084	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021 U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052 U	0.0052	0.021		1
00177	Heptachlor	76-44-8	0.0086 J	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024 U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031 U	0.031	0.10		1
00177	Mirex	2385-85-5	0.088 U	0.088	0.26		1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.16 U	0.16	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1

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Analysis Report

Sample Description: EB13-SA5DN-SS-060311 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306850
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 13:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17315 SDG#: DE173-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053	U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000062	J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025	U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080	U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016	U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000046	U	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.4		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11158WAI026	06/14/2011 14:44	Linda M Hartenstine	1

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Analysis Report

Sample Description: EB13-SA5DN-SS-060311 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306850
LLI Group # 1249957
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Suite 210
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17315 SDG#: DE173-15EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11157WAE026	06/22/2011 05:56	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11158WAI026	06/08/2011 09:30	Cynthia J Salvatori	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11157WAE026	06/06/2011 16:15	Timothy J Attenberger	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	111590018A	06/10/2011 03:21	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	111570020A	06/13/2011 21:24	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111570021A	06/08/2011 06:55	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	111570021A	06/07/2011 03:30	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	111570020A	06/07/2011 03:30	Sherry L Morrow	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	111590018A	06/08/2011 21:15	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111601848003	06/12/2011 07:25	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111601848003	06/10/2011 13:08	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111606050001D	06/14/2011 13:11	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111606050001C	06/14/2011 13:11	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111606050001B	06/14/2011 13:11	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111606050001A	06/14/2011 13:11	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111605713002	06/11/2011 10:34	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111601848003	06/09/2011 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111606050001	06/09/2011 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111605713002	06/09/2011 15:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB13-SA5DN-SS-060311 Water**
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306850
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 13:30

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17315 SDG#: DE173-15EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11161196601B	06/20/2011 03:04	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11165621702A	06/15/2011 19:35	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11155621301A	06/04/2011 12:28	Elyse P Brunstetter	1
00200	18b pH by 9040B	SW-846 9040B	1	11158020003A	06/07/2011 19:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	14		7.7	9.3		1
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1
06192	2-Butanone	78-93-3	1.4	U	1.4	9.3		1
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1
06192	tert-Butylbenzene	98-06-6	0.19	U	0.19	4.6		1
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1
06192	Chloroform	67-66-3	0.14	U	0.14	4.6		1
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1
06192	1,4-Dichlorobenzene	106-46-7	0.19	U	0.19	4.6		1
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.19	U	0.19	4.6		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1
06192	2-Hexanone	591-78-6	1.9	U	1.9	9.3		1
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.3		1
06192	Methylene Chloride	75-09-2	1.2	J	0.28	4.6		1
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1
06192	Toluene	108-88-3	0.09	U	0.09	4.6		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1
06192	Trichlorofluoromethane	75-69-4	0.34	U	0.34	4.6		1
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		24.13
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	126		19.3	38.7		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	1.7	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1

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Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	1.0	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.80	J	0.77	1.9		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: di-n-butylphthalate							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.35
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1

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Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1

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Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,700		5.72	22.7		1
07914	Boron	7440-42-8	1.01	U	1.01	5.69		1
01650	Calcium	7440-70-2	34,600		6.97	22.7		1
01654	Iron	7439-89-6	32,900		14.8	114		5
01656	Lithium	7439-93-2	31.8		0.25	2.3		1
01657	Magnesium	7439-95-4	7,110		2.89	11.4		1
06958	Manganese	7439-96-5	210		0.0887	0.569		1
10145	Phosphorus	7723-14-0	271		0.637	11.4		1
01662	Potassium	7440-09-7	3,640		20.5	56.9		1
01667	Sodium	7440-23-5	688		42.4	114		1
07968	Strontium	7440-24-6	54.3		0.0705	0.569		1
06969	Tin	7440-31-5	3.37	J	1.14	11.4		1
06970	Titanium	7440-32-6	1,450		0.432	1.14		1
10146	Zirconium	7440-67-7	8.63		0.955	5.69		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.303		0.0850	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.77		0.0919	0.459		2
06126	Barium	7440-39-3	143		0.122	0.459		2
06127	Beryllium	7440-41-7	0.910		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.165		0.0505	0.115		2
06131	Chromium	7440-47-3	31.9		0.138	0.459		2
06132	Cobalt	7440-48-4	6.54		0.0230	0.115		2
06133	Copper	7440-50-8	31.5		0.0919	0.459		2
06135	Lead	7439-92-1	8.39		0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.590		0.0574	0.115		2
06139	Nickel	7440-02-0	19.8		0.115	0.459		2
06141	Selenium	7782-49-2	0.0666	U	0.0666	0.459		2
06142	Silver	7440-22-4	0.0629	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.276		0.0345	0.115		2
06148	Vanadium	7440-62-2	51.1		0.0253	0.115		2
06149	Zinc	7440-66-6	67.7		0.643	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0294	J	0.0033	0.115		1

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Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.93	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	9.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-019-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 14:49	Chelsea B Eastep	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 12:50	Jason M Long	24.13
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:30	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.

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Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115524590	06/04/2011 14:30	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/28/2011 13:02	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011 03:07	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 13:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011 21:09	Elizabeth J Marin	25.35
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:29	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/19/2011 00:52	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/13/2011 10:29	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111590022A	06/10/2011 13:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 04:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111590022A	06/09/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 08:59	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/07/2011 23:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 19:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/14/2011 20:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 17:35	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1

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Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306851
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17316 SDG#: DE173-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:37	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:10	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 04:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621203B	06/19/2011 04:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 21:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 18:32	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:11	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		7.6	9.1		1.02
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.02
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.02
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.02
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.02
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.02
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.02
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.02
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.02
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.02
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.02
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.02
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.02
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.02
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.02
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.02
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.02
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.02
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.02
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.02
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		1.02
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.02
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.02
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.02
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.02
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.02
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.02
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.02
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.02
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.02
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.02
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.02
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.02
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.02
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.02
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.02
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.02
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.02
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.02
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.02
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.02
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.02
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.02
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.02
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.02
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.02
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.02
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.02
06192	Methylene Chloride	75-09-2	5.0		0.27	4.5		1.02
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.02

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Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.02
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.02
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.02
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.02
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1.02
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.02
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.02
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.02
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.02
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.02
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.02
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.02
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.02
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.02
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.02
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.02
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.02
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.76
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	40.2		18.6	37.1		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1

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Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.8	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.97	J	0.74	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: di-n-butylphthalate							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		26.21
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
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Project Name: SSFL Area IV Collocated Soil Sampling

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17317 SDG#: DE173-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		5.49	21.8		1
07914	Boron	7440-42-8	0.972	U	0.972	5.46		1
01650	Calcium	7440-70-2	9,870		6.69	21.8		1
01654	Iron	7439-89-6	27,700		5.14	21.8		1
01656	Lithium	7439-93-2	24.5		0.24	2.2		1
01657	Magnesium	7439-95-4	5,410		2.77	10.9		1
06958	Manganese	7439-96-5	273		0.0852	0.546		1
10145	Phosphorus	7723-14-0	298		0.611	10.9		1
01662	Potassium	7440-09-7	3,120		19.7	54.6		1
01667	Sodium	7440-23-5	374		40.7	109		1
07968	Strontium	7440-24-6	34.6		0.0677	0.546		1
06969	Tin	7440-31-5	3.22	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,370		0.415	1.09		1
10146	Zirconium	7440-67-7	7.17		0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.212	J	0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.64		0.0873	0.437		2
06126	Barium	7440-39-3	94.4		0.116	0.437		2
06127	Beryllium	7440-41-7	0.661		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.231		0.0480	0.109		2
06131	Chromium	7440-47-3	23.1		0.131	0.437		2
06132	Cobalt	7440-48-4	11.0		0.0218	0.109		2
06133	Copper	7440-50-8	13.0		0.0873	0.437		2
06135	Lead	7439-92-1	7.34		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.455		0.0546	0.109		2
06139	Nickel	7440-02-0	16.2		0.109	0.437		2
06141	Selenium	7782-49-2	0.0633	U	0.0633	0.437		2
06142	Silver	7440-22-4	0.0445	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.259		0.0328	0.109		2
06148	Vanadium	7440-62-2	43.3		0.0240	0.109		2
06149	Zinc	7440-66-6	58.3		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0162	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-019-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 15:11	Chelsea B Eastep	1.02
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 13:10	Jason M Long	23.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115524590	06/04/2011 14:32	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/28/2011 13:19	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011 03:32	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 14:25	Joseph M Gambler	1

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Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011 21:45	Elizabeth J Marin	26.21
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:32	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/19/2011 01:35	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/13/2011 10:38	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 04:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 10:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 00:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 19:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/14/2011 21:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:41	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2

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Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306852
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17317 SDG#: DE173-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:11	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 04:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621203B	06/19/2011 04:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 21:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 18:44	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:12	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306853
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17318 SDG#: DE173-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.0		7.0	8.4		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.91
06192	Methylene Chloride	75-09-2	1.2	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306853
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17318 SDG#: DE173-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	45.4		19.1	38.3		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1

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SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306853
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17318 SDG#: DE173-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306853
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17318 SDG#: DE173-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: di-n-butylphthalate								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.18
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.46	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.8		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	6.4		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1

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17318 SDG#: DE173-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,200		5.77	23.0		1
07914	Boron	7440-42-8	1.02	U	1.02	5.74		1
01650	Calcium	7440-70-2	16,800		7.04	23.0		1
01654	Iron	7439-89-6	29,400		15.0	115		5
01656	Lithium	7439-93-2	27.0		0.25	2.3		1
01657	Magnesium	7439-95-4	6,780		2.92	11.5		1
06958	Manganese	7439-96-5	351		0.0896	0.574		1
10145	Phosphorus	7723-14-0	309		0.643	11.5		1
01662	Potassium	7440-09-7	3,260		20.7	57.4		1
01667	Sodium	7440-23-5	449		42.8	115		1
07968	Strontium	7440-24-6	44.0		0.0712	0.574		1
06969	Tin	7440-31-5	3.29	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,460		0.436	1.15		1
10146	Zirconium	7440-67-7	7.59		0.964	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.245		0.0825	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.66		0.0892	0.446		2
06126	Barium	7440-39-3	121		0.118	0.446		2
06127	Beryllium	7440-41-7	0.773		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.231		0.0490	0.111		2
06131	Chromium	7440-47-3	28.4		0.134	0.446		2
06132	Cobalt	7440-48-4	9.90		0.0223	0.111		2
06133	Copper	7440-50-8	15.4		0.0892	0.446		2
06135	Lead	7439-92-1	8.59		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.367		0.0557	0.111		2
06139	Nickel	7440-02-0	17.2		0.111	0.446		2
06141	Selenium	7782-49-2	0.0939	J	0.0647	0.446		2
06142	Silver	7440-22-4	0.0659	J	0.0158	0.111		2
06145	Thallium	7440-28-0	0.273		0.0334	0.111		2
06148	Vanadium	7440-62-2	51.2		0.0245	0.111		2
06149	Zinc	7440-66-6	70.7		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0185	J	0.0031	0.109		1

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SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306853
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

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17318 SDG#: DE173-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.3		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 15:34	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 13:30	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115524590	06/04/2011 14:35	Christopher D Meeks	n.a.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306853
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17318 SDG#: DE173-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/28/2011 13:36	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011 03:57	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 14:58	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011 22:22	Elizabeth J Marin	24.18
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:35	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/19/2011 02:17	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/13/2011 10:48	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 04:54	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 12:43	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 00:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 19:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 04:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 17:38	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:45	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2

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Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306853
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17318 SDG#: DE173-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:13	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 04:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621203B	06/19/2011 04:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 21:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 18:55	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17319 SDG#: DE173-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.1	8.4		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.95
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.95
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.95
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.95
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.95
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.95
06192	Methylene Chloride	75-09-2	5.5		0.25	4.2		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.95

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Sample Description: SL-027-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17319 SDG#: DE173-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.95
06192	Toluene	108-88-3	0.09	J	0.08	4.2		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		22.6
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	41.7		18.5	36.9		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 18.85 ng/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1

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Sample Description: SL-027-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17319 SDG#: DE173-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1

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SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17319 SDG#: DE173-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: di-n-butylphthalate							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
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Project Name: SSFL Area IV Collocated Soil Sampling

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17319 SDG#: DE173-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
	The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	5.1		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	8.3		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1

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SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
LLI Group # 1249957
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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17319 SDG#: DE173-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600		5.41	21.5		1
07914	Boron	7440-42-8	0.957	U	0.957	5.38		1
01650	Calcium	7440-70-2	4,760		6.59	21.5		1
01654	Iron	7439-89-6	27,000		5.06	21.5		1
01656	Lithium	7439-93-2	23.3		0.24	2.2		1
01657	Magnesium	7439-95-4	5,300		2.73	10.8		1
06958	Manganese	7439-96-5	303		0.0839	0.538		1
10145	Phosphorus	7723-14-0	313		0.602	10.8		1
01662	Potassium	7440-09-7	2,680		19.4	53.8		1
01667	Sodium	7440-23-5	231		40.1	108		1
07968	Strontium	7440-24-6	22.5		0.0667	0.538		1
06969	Tin	7440-31-5	3.33	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,450		0.409	1.08		1
10146	Zirconium	7440-67-7	6.26		0.903	5.38		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0788	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0852	0.426		2
06126	Barium	7440-39-3	91.0		0.113	0.426		2
06127	Beryllium	7440-41-7	0.619		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.137		0.0469	0.106		2
06131	Chromium	7440-47-3	24.8		0.128	0.426		2
06132	Cobalt	7440-48-4	6.79		0.0213	0.106		2
06133	Copper	7440-50-8	12.1		0.0852	0.426		2
06135	Lead	7439-92-1	5.92		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.313		0.0532	0.106		2
06139	Nickel	7440-02-0	16.1		0.106	0.426		2
06141	Selenium	7782-49-2	0.0618	U	0.0618	0.426		2
06142	Silver	7440-22-4	0.0434	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.249		0.0319	0.106		2
06148	Vanadium	7440-62-2	38.2		0.0234	0.106		2
06149	Zinc	7440-66-6	56.2		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0119	J	0.0031	0.110		1

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SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
LLI Group # 1249957
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

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17319 SDG#: DE173-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.89	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-027-SA5DN-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 15:56	Chelsea B Eastep	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 13:50	Jason M Long	22.6
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115524590	06/04/2011 14:38	Christopher D Meeks	n.a.

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17319 SDG#: DE173-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11160SLB026	06/29/2011 15:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011 04:22	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 15:31	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11160SLB026	06/09/2011 14:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11157A34A	06/07/2011 22:58	Elizabeth J Marin	24.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:37	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111670008A	06/19/2011 02:59	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111590006A	06/13/2011 10:57	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 05:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111590006A	06/08/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	2	111670008A	06/16/2011 15:40	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111580028A	06/10/2011 13:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111580038A	06/08/2011 00:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111570001A	06/07/2011 19:55	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111590037A	06/15/2011 04:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111580028A	06/08/2011 08:30	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	111590037A	06/09/2011 06:40	Kerrie A Freeburn	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111580038A	06/07/2011 16:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111570001A	06/07/2011 08:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:49	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 12:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306854
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17319 SDG#: DE173-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 12:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 12:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 12:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:14	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 05:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11168621203B	06/19/2011 05:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 22:15	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 19:07	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11160102201A	06/09/2011 18:15	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11160102201A	06/09/2011 09:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306855
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17320 SDG#: DE173-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		7.5	9.0		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.01
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.01
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.01
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1.01
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.01
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.01
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.01
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.01
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.01
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		1.01
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.01
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.01
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.01
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.01
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.01
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.01
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1.01
06192	Methylene Chloride	75-09-2	1.4	J	0.27	4.5		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.01

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Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306855
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17320 SDG#: DE173-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.01
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.01
06192	Toluene	108-88-3	0.09	U	0.09	4.5		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.01
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.01
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.01
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.0	U	6.0	18		26.71
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1

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Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306855
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17320 SDG#: DE173-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306855
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17320 SDG#: DE173-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: di-n-butylphthalate							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.57	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,400		5.61	22.3		1
07914	Boron	7440-42-8	0.993	U	0.993	5.58		1
01650	Calcium	7440-70-2	7,670		6.84	22.3		1
01654	Iron	7439-89-6	30,600		14.6	112		5
01656	Lithium	7439-93-2	25.1		0.25	2.2		1
01657	Magnesium	7439-95-4	6,790		2.83	11.2		1
06958	Manganese	7439-96-5	679		0.0871	0.558		1
10145	Phosphorus	7723-14-0	177		0.625	11.2		1
01662	Potassium	7440-09-7	3,200		20.1	55.8		1
01667	Sodium	7440-23-5	495		41.6	112		1
07968	Strontium	7440-24-6	54.6		0.0692	0.558		1
06969	Tin	7440-31-5	3.13	J	1.12	11.2		1
06970	Titanium	7440-32-6	803		0.424	1.12		1
10146	Zirconium	7440-67-7	5.50	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.273		0.0794	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.10		0.0859	0.429		2
06126	Barium	7440-39-3	162		0.114	0.429		2
06127	Beryllium	7440-41-7	0.892		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.215		0.0472	0.107		2

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Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306855
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17320 SDG#: DE173-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	32.0	0.129	0.429		2
06132	Cobalt	7440-48-4	10.1	0.0215	0.107		2
06133	Copper	7440-50-8	17.5	0.0859	0.429		2
06135	Lead	7439-92-1	9.98	0.0109	0.215		2
06138	Molybdenum	7439-98-7	0.547	0.0537	0.107		2
06139	Nickel	7440-02-0	19.6	0.107	0.429		2
06141	Selenium	7782-49-2	0.136 J	0.0622	0.429		2
06142	Silver	7440-22-4	0.0528 J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.321	0.0322	0.107		2
06148	Vanadium	7440-62-2	56.4	0.0236	0.107		2
06149	Zinc	7440-66-6	68.3	0.601	3.22		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	20.8	0.89	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-052-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306855
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17320 SDG#: DE173-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111591AA	06/08/2011 16:18	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111581AA	06/07/2011 14:10	Jason M Long	26.71
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115524590	06/04/2011 14:44	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115524590	06/04/2011 14:40	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011 04:47	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011 16:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011 10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011 06:50	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011 06:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011 18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011 17:41	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011 18:52	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011 13:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 13:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 13:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 13:00	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306855
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17320 SDG#: DE173-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:15	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 05:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11168373204B	06/19/2011 22:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 19:18	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306856
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17321 SDG#: DE173-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Analysis Report

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306856
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17321 SDG#: DE173-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
di-n-butylphthalate

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306856
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17321 SDG#: DE173-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,100		5.66	22.5		1
07914	Boron	7440-42-8	10.4	J	2.03	28.1		5
01650	Calcium	7440-70-2	10,200		6.90	22.5		1
01654	Iron	7439-89-6	30,700		14.7	113		5
01656	Lithium	7439-93-2	26.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,970		2.86	11.3		1
06958	Manganese	7439-96-5	301		0.0878	0.563		1
10145	Phosphorus	7723-14-0	157		0.630	11.3		1
01662	Potassium	7440-09-7	3,230		20.3	56.3		1
01667	Sodium	7440-23-5	735		42.0	113		1
07968	Strontium	7440-24-6	52.4		0.0698	0.563		1
06969	Tin	7440-31-5	3.27	J	1.13	11.3		1
06970	Titanium	7440-32-6	958		0.428	1.13		1
10146	Zirconium	7440-67-7	5.78		0.945	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.226		0.0825	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.51		0.0892	0.446		2
06126	Barium	7440-39-3	101		0.118	0.446		2
06127	Beryllium	7440-41-7	0.793		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.189		0.0490	0.111		2
06131	Chromium	7440-47-3	31.5		0.134	0.446		2
06132	Cobalt	7440-48-4	5.80		0.0223	0.111		2
06133	Copper	7440-50-8	12.9		0.0892	0.446		2
06135	Lead	7439-92-1	7.47		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.263		0.0557	0.111		2
06139	Nickel	7440-02-0	15.5		0.111	0.446		2
06141	Selenium	7782-49-2	0.0647	U	0.0647	0.446		2
06142	Silver	7440-22-4	0.173		0.0158	0.111		2
06145	Thallium	7440-28-0	0.325		0.0334	0.111		2
06148	Vanadium	7440-62-2	46.1		0.0245	0.111		2
06149	Zinc	7440-66-6	67.0		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0032	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306856
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17321 SDG#: DE173-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.75	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLE026	06/15/2011	05:12	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLD026	06/30/2011	16:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLD026	06/17/2011	10:40	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLE026	06/10/2011	06:50	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111600014A	06/15/2011	07:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111600014A	06/09/2011	18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
07914	Boron	SW-846 6010B	1	111645708002	06/15/2011	17:45	John P Hook	5
01650	Calcium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
01654	Iron	SW-846 6010B	1	111645708002	06/15/2011	17:45	John P Hook	5
01656	Lithium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
06969	Tin	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111645708002	06/14/2011	18:56	John P Hook	1
06124	Antimony	SW-846 6020	1	111641026002A	06/16/2011	13:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111641026002A	06/16/2011	13:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111641026002D	06/16/2011	13:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111641026002A	06/16/2011	13:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111641026002A	06/16/2011	13:03	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306856
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17321 SDG#: DE173-21

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111641026002C	06/16/2011 13:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111641026002B	06/16/2011 13:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111641026002A	06/16/2011 13:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111645711002	06/14/2011 14:16	Parker D Lindstrom	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111645708002	06/13/2011 21:46	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111641026002	06/13/2011 21:53	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111645711002	06/13/2011 10:04	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11168621203B	06/19/2011 05:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11168373204B	06/27/2011 19:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11160243201A	06/10/2011 19:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11168621203B	06/17/2011 09:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11168373204B	06/17/2011 19:00	Joseph E McKenzie	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11158039403B	06/07/2011 14:35	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11160243201A	06/09/2011 13:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: TB-060311 Water
SSFL Area IV Collocated Soil Sampling
TB-060311

LLI Sample # WW 6306857
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:30

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17322 SDG#: DE173-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: TB-060311 Water
SSFL Area IV Collocated Soil Sampling
TB-060311

LLI Sample # WW 6306857
LLI Group # 1249957
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:30

Submitted: 06/04/2011 09:15
Reported: 07/07/2011 12:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17322 SDG#: DE173-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111582AA	06/07/2011 23:47	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111571AA	06/06/2011 12:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111571AA	06/06/2011 12:13	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111582AA	06/07/2011 23:47	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11164B20A	06/14/2011 02:06	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11164B20A	06/14/2011 02:06	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111591AA	Sample number(s): 6306851-6306855									
Acetone	8.7		6.7	8.0	ug/kg	108	105	32-209	3	30
Benzene	0.10	U	0.10	4.0	ug/kg	107	105	80-120	2	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	100	98	79-120	2	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	108	108	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	100	78-120	2	30
Bromoform	0.40	U	0.40	4.0	ug/kg	100	97	70-120	3	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	78	80	32-162	2	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	99	46-153	7	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103	102	72-120	1	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	102	101	75-120	1	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	99	98	75-120	0	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109	106	69-122	2	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	104	101	80-120	3	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	70	72	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93	91	43-146	2	30
Chloroform	0.12	U	0.12	4.0	ug/kg	108	107	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	86	87	54-132	1	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98	98	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	61	55	22-131	10	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	106	105	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	100	99	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	103	101	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	103	102	79-120	1	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	100	99	78-120	1	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100	99	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	80	79	20-120	1	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	106	80-120	2	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	113	110	71-129	2	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	114	112	73-123	2	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	104	104	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102	98	79-120	5	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	101	101	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	103	102	80-120	1	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	108	108	72-123	0	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	106	104	77-120	2	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98	98	80-120	0	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98	96	77-120	1	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	104	102	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	113	111	61-126	2	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	102	94	78-120	9	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	94	94	57-120	0	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	106	104	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	105	105	76-120	1	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	102	101	75-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104	102	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107	104	61-134	3	30
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	112	112	76-124	0	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	106	102	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	105	102	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	102	102	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	98	96	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	105	103	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	102	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	97	64-120	1	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	90	92	68-120	2	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	107	105	71-125	2	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	100	80-120	1	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	103	101	80-120	2	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	99	96	58-133	3	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102	100	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101	100	79-120	1	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	102	78-120	1	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	85	86	53-120	1	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	107	106	80-120	1	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	102	101	80-120	1	30
Batch number: E111571AA	Sample number(s): 6306857									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	101	106	80-123	6	30
Batch number: E111581AA	Sample number(s): 6306851-6306855									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	105	115	70-130	9	30
Batch number: L111582AA	Sample number(s): 6306857									
Acetone	6	U	6.	20	ug/l	119	101	49-234	16	30
Benzene	0.5	U	0.5	5	ug/l	99	98	79-120	0	30
Bromobenzene	1	U	1.	5	ug/l	92	94	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	98	97	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	91	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	79	78	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	101	103	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	92	87	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	97	99	74-120	2	30
sec-Butylbenzene	1	U	1.	5	ug/l	93	94	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	91	92	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	95	96	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	90	94	49-129	4	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	85	86	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	99	99	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	90	97	60-129	7	30
2-Chlorotoluene	1	U	1.	5	ug/l	93	93	80-120	0	30
4-Chlorotoluene	1	U	1.	5	ug/l	95	97	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	60	58	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	79	84	56-126	6	30
Dibromochloromethane	1	U	1.	5	ug/l	87	87	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	95	95	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	91	93	80-120	2	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	94	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	94	96	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	85	47-120	5	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	97	79-120	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	101	101	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	94	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	93	95	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	94	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	92	93	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	94	93	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	99	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	94	94	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	88	89	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	2	30
Freon 113	2	U	2.	10	ug/l	96	98	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	100	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	84	88	58-120	5	30
2-Hexanone	3	U	3.	10	ug/l	85	83	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	91	92	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	90	92	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	81	82	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	95	96	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	92	95	80-120	3	30
Styrene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	91	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	92	93	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	95	94	80-121	0	30
Toluene	0.7	U	0.7	5	ug/l	98	97	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	85	89	65-120	5	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	81	85	67-120	5	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	96	94	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	95	95	80-120	0	30
Trichlorofluoromethane	2	U	2.	5	ug/l	100	100	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	92	94	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	94	95	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	93	75-120	2	30
Vinyl Chloride	1	U	1.	5	ug/l	92	96	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	97	96	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	95	94	80-120	1	30
Batch number: 11157WAE026	Sample number(s): 6306849-6306850									
Acenaphthene	0.010	U	0.010	0.050	ug/l	92	82	74-109	11	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	89	70-110	9	30
Anthracene	0.010	U	0.010	0.050	ug/l	98	91	66-111	8	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	99	92	72-114	7	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	88	60-127	8	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	97	84	69-123	14	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	86	93	57-131	8	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	104	92	59-130	12	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	94	85	40-138	10	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	95	77	74-131	21	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	94	76-116	7	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	89	95	55-134	6	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	91	79	57-134	14	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	89	80	40-119	11	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	91	88	57-154	3	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	100	85	75-116	16	30
Fluorene	0.010	U	0.010	0.050	ug/l	100	90	75-114	10	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	90	94	69-124	5	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	98	88	71-117	11	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	81	75-115	12	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	87	72-109	8	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	65	56	36-89	15	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	96	148*	57-145	43*	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	99	91	76-111	9	30
Pyrene	0.010	U	0.010	0.050	ug/l	96	99	69-118	3	30
Batch number: 11158WAI026	Sample number(s): 6306849-6306850									
Aniline	1	U	1.	5	ug/l	109*	110*	49-101	1	30
Benzidine	20	U	20.	60	ug/l	99	102	34-117	3	30
Benzoic acid	6	U	6.	15	ug/l	60	62	10-69	3	30
Benzyl alcohol	5	U	5.	15	ug/l	109*	107*	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	127*	129*	82-117	1	30
Carbazole	1	U	1.	5	ug/l	129*	130*	81-114	1	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	127*	131*	70-123	3	30
4-Chloroaniline	1	U	1.	5	ug/l	96	94	42-124	2	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	127*	131*	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	121*	126*	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	119	123	62-127	3	30
2-Chloronaphthalene	2	U	2.	5	ug/l	111	114	54-132	2	30
2-Chlorophenol	1	U	1.	5	ug/l	130*	132*	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	127*	123*	82-111	3	30
Dibenzofuran	1	U	1.	5	ug/l	128*	126*	83-108	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	105	100	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	105	98	50-119	7	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	104	98	53-119	7	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	104	100	49-111	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	129*	133*	80-109	4	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	126*	130*	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	105	109	70-130	4	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	143*	145*	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	142*	149*	52-131	5	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	131*	132*	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	130*	131*	85-115	1	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	140*	137*	78-116	2	30
Hexachlorobenzene	1	U	1.	5	ug/l	130*	131*	81-118	0	30
Hexachlorobutadiene	1	U	1.	5	ug/l	112	109	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	111	107	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	100	92	52-113	8	30
Isophorone	1	U	1.	5	ug/l	128*	132*	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	120*	122*	64-101	2	30
4-Methylphenol	2	U	2.	5	ug/l	105*	107*	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	134*	135*	83-116	0	30
3-Nitroaniline	1	U	1.	5	ug/l	126*	125*	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	109*	105*	59-100	3	30
Nitrobenzene	1	U	1.	5	ug/l	123*	129*	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	131*	134*	86-120	2	30
4-Nitrophenol	10	U	10.	30	ug/l	53	51	16-78	5	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	126*	127*	69-110	1	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	129	132	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	128*	129*	53-110	1	30
Phenol	1	U	1.	5	ug/l	61	61	21-67	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	114*	114*	71-112	0	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	131*	134*	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	133*	134*	81-113	1	30
Batch number: 11160SLB026	Sample number(s): 6306847,6306851-6306854									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	18.9	J	16.7	33.3	ng/kg	105		70-130		
Batch number: 11160SLE026	Sample number(s): 6306833-6306838,6306840-6306848,6306851-6306856									
Acenaphthene	17	U	17.	170	ug/kg	88		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	88		75-122		
Aniline	170 U		170.	500	ug/kg	101*		34-94		
Anthracene	17	U	17.	170	ug/kg	91		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	79		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	93		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	89		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	89		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	92		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	92		67-125		
Benzoic acid	170 U		170.	500	ug/kg	87		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	84		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	89		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	92		79-112		
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	90		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	97		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	86		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	90		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	83		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	116*		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	87		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	90		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	91		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	90		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	87		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	87		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	87		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	86		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	91		75-117		
Fluoranthene	17	U	17.	170	ug/kg	92		78-116		
Fluorene	17	U	17.	170	ug/kg	90		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	89		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	87		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	80		66-117		
Naphthalene	17	U	17.	170	ug/kg	87		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	87		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	88		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	74		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	88		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	90		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	90		77-113		
Phenol	17	U	17.	170	ug/kg	81		58-112		
Pyrene	17	U	17.	170	ug/kg	90		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	87		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	88		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	89		78-111		
Batch number: 11167SLD026	Sample number(s): 6306833-6306838,6306840-6306848,6306851-6306856									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	94		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	92		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	87		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	79		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	83		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	89		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	74*		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	100		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	78		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	71		6.0	18	ug/kg	93		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	77		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	79		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	83		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	89		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		56-121		
Batch number: 11157A34A	Sample number(s): 6306851-6306854									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	83	95	67-119	13	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11164B20A	Sample number(s): 6306857									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 111670008A	Sample number(s): 6306847,6306851-6306854									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	122*		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	125*		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	98	105	54-134	8	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	105	54-134	8	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	128		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	121		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	123*		80-120		
HMX	100 U		100.	300	ug/kg	108		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	127*		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	92		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	118		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	125		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	116		80-120		
PETN	800 U		800.	2,400	ug/kg	126*		80-120		
RDX	50	U	50.	120	ug/kg	109		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	118		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	128*		80-120		
Batch number: 111590006A	Sample number(s): 6306847,6306851-6306854									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 111590018A	Sample number(s): 6306850									
2,4-D	0.16	U	0.16	0.50	ug/l	108	104	73-157	4	30
Dalapon	0.25	U	0.25	1.3	ug/l	60	79	40-100	27	30
2,4-DB	0.30	U	0.30	1.0	ug/l	96	92	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	92	92	68-135	0	30
Dinoseb	0.10	U	0.10	0.50	ug/l	67	65	32-91	4	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	124	116	76-170	7	30
MCPA	300 U		300.	1,000	ug/l	88	82	65-128	7	30
MCPP	50	U	50.	200	ug/l	92	88	67-137	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	100	96	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104	96	63-134	8	30
Batch number: 111660015A	Sample number(s): 6306833-6306838,6306840-6306848									
2,4-D	1.2	U	1.2	3.6	ug/kg	89		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	53		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	18		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	116		62-170		
MCPA	76	U	76.	250	ug/kg	88		60-130		
MCPP (Mecoprop)	150 J		75.	250	ug/kg	115		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	83		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 111590022A	Sample number(s): 6306851									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	101		85-115		
Batch number: 111570020A	Sample number(s): 6306850									
Aldrin	0.0020	U	0.0020	0.010	ug/l	98	97	54-159	1	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	120	130	59-146	8	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	120	120	68-128	0	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	125	125	71-139	0	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	142*	142*	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	110	110	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	125	130	76-132	4	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	130*	130*	68-128	0	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	110	110	71-142	0	30
Endrin	0.0081	U	0.0081	0.020	ug/l	120	115	52-132	4	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	110	110	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	110	115	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	120	57-126	9	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	122	73-156	9	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	120	130	52-133	8	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 111570021A	Sample number(s): 6306849-6306850									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	78	84	35-84	7	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	90	92	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	90	98	56-135	9	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111600014A	Sample number(s): 6306833-6306838,6306840-6306848,6306851-6306856									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	112*	102	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	94		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	107		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111610002A	Sample number(s): 6306833-6306838,6306840-6306848									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	109		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	91		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	109		46-127		

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Quality Control Summary

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Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	133		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	95		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	118		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	110		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	85		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	85		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	108		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	112		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	71		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	105		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	130*		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	125		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 111580028A	Sample number(s): 6306847,6306851-6306854									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	105		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	108		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	88		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	101		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 111570001A	Sample number(s): 6306847,6306851-6306854									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111580038A	Sample number(s): 6306847,6306851-6306854									
Ethanol	100	U	100.	500	ug/kg	89		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 111590037A	Sample number(s): 6306847,6306851-6306854									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		
Batch number: 111601848003	Sample number(s): 6306849-6306850									
Aluminum	0.0834	U	0.0834	0.200	mg/l	102	105	90-112	3	20
Boron	0.0138	U	0.0138	0.0500	mg/l	103	103	89-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	103	107	90-112	4	20
Iron	0.0522	U	0.0522	0.200	mg/l	101	105	90-112	4	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	101	105	80-120	3	20
Magnesium	0.0195	J	0.0172	0.100	mg/l	104	108	89-110	3	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	108	108	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	109	103	80-120	5	20
Potassium	0.239	U	0.239	0.500	mg/l	102	106	85-115	4	20
Sodium	0.433	U	0.433	1.00	mg/l	102	105	87-114	3	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	107	106	90-110	0	20
Tin	0.0098	U	0.0098	0.0200	mg/l	107	102	90-110	5	20
Titanium	0.0038	U	0.0038	0.0100	mg/l	105	108	90-113	2	20
Zirconium	0.0206	U	0.0206	0.0500	mg/l	102	107	80-120	5	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111605713002	Sample number(s): 6306849-6306850								
Mercury	0.00012 J (6)	0.00004	0.00020	mg/l	109	111	80-120	2	20
Batch number: 111606050001A	Sample number(s): 6306849-6306850								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	106	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	104	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	111	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	107	105	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	105	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	99	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	107	90-113	0	20
Lead	0.000052 U	0.00005 (2)	0.0010	mg/l	104	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	106	90-113	2	20
Silver	0.000080 U	0.00008 (0)	0.00050	mg/l	106	105	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	102	98	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	89-116	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	103	90-116	1	20
Batch number: 111606050001B	Sample number(s): 6306849-6306850								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	116*	85-114	8	20
Batch number: 111606050001C	Sample number(s): 6306849-6306850								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	107	89-115	2	20
Batch number: 111606050001D	Sample number(s): 6306849-6306850								
Barium	0.00053 U	0.00053	0.0020	mg/l	111	104	88-113	6	20
Batch number: 111641026002A	Sample number(s): 6306833-6306848,6306851-6306856								
Antimony	0.0975 J	0.0740	0.200	mg/kg	135		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	105		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	104		86-111		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	107		82-118		
Copper	0.0800 U	0.0800	0.400	mg/kg	98		83-110		
Lead	0.0102 U	0.0102	0.200	mg/kg	105		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	100		81-110		
Silver	0.0142 U	0.0142	0.100	mg/kg	99		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	108		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	91		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	101		81-112		
Batch number: 111641026002B	Sample number(s): 6306833-6306848,6306851-6306856								
Selenium	0.0580 U	0.0580	0.400	mg/kg	109		83-111		
Batch number: 111641026002C	Sample number(s): 6306833-6306848,6306851-6306856								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	111		78-122		
Batch number: 111641026002D	Sample number(s): 6306833-6306848,6306851-6306856								
Barium	0.106 U	0.106	0.400	mg/kg	98		81-111		
Batch number: 111645708002	Sample number(s): 6306833-6306848,6306851-6306856								
Aluminum	9.32 J	5.03	20.0	mg/kg	98		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	11.0	J	6.13	20.0	mg/kg	98		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	110		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	100		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	100		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	103		89-112		
Phosphorus	1.80	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	99		78-110		
Sodium	37.3	U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	103		86-110		
Tin	1.74	J	1.00	10.0	mg/kg	104		90-114		
Titanium	0.380	U	0.380	1.00	mg/kg	109		80-120		
Zirconium	0.840	U	0.840	5.00	mg/kg	104		80-120		
Batch number: 111645711002	Sample number(s): 6306833-6306848,6306851-6306856									
Mercury	0.0044	J	0.0028	0.0986	mg/kg	94		88-123		
Batch number: 11155621301A	Sample number(s): 6306849-6306850									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	103	105	90-110	2	20
Batch number: 11160102201A	Sample number(s): 6306847,6306851-6306854									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	104		80-120		
Batch number: 11160243201A	Sample number(s): 6306833-6306837,6306839-6306848,6306851-6306856									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	99		80-120		
Batch number: 11161196601B	Sample number(s): 6306849-6306850									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	106	107	90-110	1	20
Batch number: 11165621702A	Sample number(s): 6306849-6306850									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	1	20
Batch number: 11168373204A	Sample number(s): 6306833-6306837,6306839-6306845									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11168373204B	Sample number(s): 6306846-6306848,6306851-6306856									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11168621203A	Sample number(s): 6306833-6306837,6306839-6306845									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
Batch number: 11168621203B	Sample number(s): 6306846-6306848,6306851-6306856									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	96		90-110		
Batch number: 11158020003A	Sample number(s): 6306849-6306850									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11158039403A	Sample number(s): 6306833-6306836,6306839-6306844									
18a pH by 9045C						100		95-105		
Batch number: 11158039403B	Sample number(s): 6306845-6306848,6306851-6306856									
18a pH by 9045C						100		95-105		
Batch number: 11166162401A	Sample number(s): 6306833-6306846,6306848,6306855-6306856									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162401B	Sample number(s): 6306847,6306851-6306854								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11160SLB026	Sample number(s): 6306847,6306851-6306854 UNSPK: P305964								
N-Nitrosodimethylamine	83	93	70-130	11	30				
Batch number: 11160SLE026	Sample number(s): 6306833-6306838,6306840-6306848,6306851-6306856 UNSPK: 6306836								
Acenaphthene	79	77	75-115	1	30				
Acenaphthylene	80*	77*	81-110	3	30				
Aniline	44	46	35-95	7	30				
Anthracene	79	78	75-115	1	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	82	79	65-122	3	30				
Benzo(a)pyrene	70	68	57-126	2	30				
Benzo(b)fluoranthene	68	65	59-125	4	30				
Benzo(g,h,i)perylene	74	70	59-127	5	30				
Benzo(k)fluoranthene	72	72	56-132	0	30				
Benzoic acid	43	57	10-173	28	30				
Benzyl alcohol	75	73	67-115	3	30				
4-Bromophenyl-phenylether	84	83	67-129	1	30				
Butylbenzylphthalate	90	86	73-134	3	30				
Di-n-butylphthalate	81	81	67-123	0	30				
Carbazole	76	75	64-120	1	30				
4-Chloro-3-methylphenol	74*	74*	76-110	1	30				
4-Chloroaniline	34	47	23-95	33*	30				
bis(2-Chloroethoxy)methane	79	76	75-104	3	30				
bis(2-Chloroethyl)ether	75	72	60-116	4	30				
bis(2-Chloroisopropyl)ether	76	73	55-142	4	30				
2-Chloronaphthalene	75	71	50-141	5	30				
2-Chlorophenol	80	77	73-121	2	30				
4-Chlorophenyl-phenylether	77*	74*	80-109	3	30				
Chrysene	80	78	62-128	2	30				
Dibenz(a,h)anthracene	75	71	65-125	4	30				
Dibenzofuran	78	76	71-112	2	30				
1,2-Dichlorobenzene	70	69	66-108	2	30				
1,3-Dichlorobenzene	69	68	63-109	0	30				
1,4-Dichlorobenzene	70	69*	70-100	0	30				
3,3'-Dichlorobenzidine	49	49	16-119	2	30				
2,4-Dichlorophenol	79	77*	78-117	2	30				
Diethylphthalate	78	76	66-118	2	30				
2,4-Dimethylphenol	77*	76*	78-110	2	30				
3,5-Dimethylphenol	104	103	70-130	0	30				
Dimethylphthalate	79	76	64-118	2	30				
4,6-Dinitro-2-methylphenol	51	49	24-116	3	30				
2,4-Dinitrophenol	27	25	20-143	5	30				
2,4-Dinitrotoluene	74	73	73-113	1	30				
2,6-Dinitrotoluene	78	76	69-123	3	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	91	90	71-129	1	30				
bis(2-Ethylhexyl)phthalate	88	85	63-122	2	30				
Fluoranthene	73	73	73-112	1	30				
Fluorene	76*	74*	77-111	1	30				
Hexachlorobenzene	84	80	77-114	4	30				
Hexachlorobutadiene	78	78	62-120	0	30				
Hexachlorocyclopentadiene	46	44	10-153	6	30				
Hexachloroethane	67	65	57-109	1	30				
Indeno(1,2,3-cd)pyrene	74	71	61-126	4	30				
Isophorone	77	76	73-102	1	30				
1-Methylnaphthalene	76	75	73-112	0	30				
2-Methylnaphthalene	72*	71*	76-114	1	30				
2-Methylphenol	75	73*	75-111	3	30				
4-Methylphenol	68*	65*	71-111	3	30				
Naphthalene	76	75	72-116	0	30				
2-Nitroaniline	80	78	67-125	1	30				
3-Nitroaniline	69	68	59-122	1	30				
4-Nitroaniline	57	61	52-112	7	30				
Nitrobenzene	80	78	72-106	2	30				
2-Nitrophenol	78	77	74-115	1	30				
4-Nitrophenol	62	61	54-113	1	30				
N-Nitroso-di-n-propylamine	73	71	60-116	2	30				
N-Nitrosodimethylamine	75	69	47-116	8	30				
N-Nitrosodiphenylamine	82*	81*	86-145	1	30				
Di-n-octylphthalate	80	79	56-126	1	30				
Pentachlorophenol	63	59	28-127	6	30				
Phenanthrene	77	76	65-125	1	30				
Phenol	71	68	58-126	4	30				
Pyrene	85	82	74-126	3	30				
1,2,4-Trichlorobenzene	79	77	72-115	2	30				
2,4,5-Trichlorophenol	78	76*	78-109	1	30				
2,4,6-Trichlorophenol	83	80	77-115	3	30				
Batch number: 11167SLD026	Sample number(s): 6306833-6306838,6306840-6306848,6306851-6306856 UNSPK: 6306836								
Acenaphthene	89	91	63-105	2	30				
Acenaphthylene	85	92	67-114	8	30				
Anthracene	90	94	60-122	4	30				
Benzo(a)anthracene	88	94	59-128	7	30				
Benzo(a)pyrene	84	91	45-138	8	30				
Benzo(b)fluoranthene	93	105	43-155	11	30				
Benzo(g,h,i)perylene	42	41	33-141	2	30				
Benzo(k)fluoranthene	98	104	42-144	6	30				
Butylbenzylphthalate	100	112	57-173	12	30				
Di-n-butylphthalate	94	97	65-148	4	30				
Chrysene	76	80	48-134	5	30				
Dibenz(a,h)anthracene	49	48	22-133	2	30				
Diethylphthalate	107	110	70-136	3	30				
Dimethylphthalate	93	100	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	105	205*	39-167	58*	30				
Fluoranthene	93	99	26-166	6	30				
Fluorene	92	96	66-122	5	30				
Indeno(1,2,3-cd)pyrene	47	47	21-143	0	30				
1-Methylnaphthalene	95	91	72-123	3	30				

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Reported: 07/07/11 at 12:24 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylnaphthalene	98	82	64-103	18	30				
Naphthalene	83	90	61-102	7	30				
N-Nitrosodimethylamine	53	86	48-113	48*	30				
Di-n-octylphthalate	118	137	40-192	15	30				
Phenanthrene	87	91	12-165	5	30				
Pyrene	81	87	15-153	8	30				
Batch number: 111670008A	Sample number(s): 6306847,6306851-6306854 UNSPK: P305886								
4-Amino-2,6-Dinitrotoluene	105	113	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	106	113	80-137	2	50				
1,3-Dinitrobenzene	111	118	38-166	2	50				
2,4-Dinitrotoluene	104	109	80-131	1	50				
2,6-Dinitrotoluene	105	111	80-127	2	50				
HMX	90	97	63-128	4	50				
Nitrobenzene	105	115	80-125	5	50				
Nitroglycerin	91	97	80-120	3	50				
2-Nitrotoluene	103	108	80-122	1	50				
3-Nitrotoluene	110	116	72-119	2	50				
4-Nitrotoluene	102	108	80-125	2	50				
PETN	113	118	80-121	1	50				
RDX	87	94	75-129	4	50				
Tetryl	72	76	55-174	2	50				
1,3,5-Trinitrobenzene	90	101	82-126	8	50				
2,4,6-Trinitrotoluene	106	113	82-130	3	50				
Batch number: 111590006A	Sample number(s): 6306847,6306851-6306854 UNSPK: P305886								
25a Formaldehyde 8315A	82	88	80-120	4	50				
Batch number: 111660015A	Sample number(s): 6306833-6306838,6306840-6306848 UNSPK: 6306836								
2,4-D	76	88	17-180	15	35				
Dalapon	26	37	10-125	38	50				
2,4-DB	43	58	10-201	30	50				
Dicamba	70	69	10-190	2	50				
Dinoseb	14	16	10-46	15	35				
2,4-DP (Dichlorprop)	104	99	33-178	4	50				
MCPA	42	53	10-213	25	50				
MCPP (Mecoprop)	40	36	10-184	11	50				
2,4,5-T	22	31	10-156	36*	35				
2,4,5-TP	70	75	24-141	7	35				
Batch number: 111590022A	Sample number(s): 6306851 UNSPK: P302756								
6a Perchlorate EPA 6850	107	103	80-120	4	20				
Batch number: 111600014A	Sample number(s): 6306833-6306838,6306840-6306848,6306851-6306856 UNSPK: 6306836								
PCB-1016	88	84	29-146	6	50				
PCB-1260	72	83	39-149	13	50				
Batch number: 111610002A	Sample number(s): 6306833-6306838,6306840-6306848 UNSPK: 6306836								
Aldrin	55	55	16-126	0	50				
Alpha BHC	115	124	10-129	8	50				
Beta BHC	66	66	14-147	0	50				
Gamma BHC - Lindane	73	73	10-140	0	50				
p,p-DDD	88	93	16-163	5	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p,p-DDE	46	55	18-161	10	50				
p,p-DDT	68	65	10-176	2	50				
Delta BHC	56	59	23-140	4	50				
Dieldrin	74	74	19-154	0	50				
Endosulfan I	42	45	16-137	7	50				
Endosulfan II	66	37	28-154	40	50				
Endosulfan Sulfate	74	71	21-160	4	50				
Endrin	72	77	11-149	7	50				
Endrin Aldehyde	42	39	10-148	4	35				
Endrin Ketone	86	76	22-165	13	50				
Heptachlor	130*	142*	13-126	9	50				
Heptachlor Epoxide	58	61	13-157	5	50				
Methoxychlor	103	104	32-147	1	50				
Batch number: 111580028A	Sample number(s): 6306847,6306851-6306854 UNSPK: 6306851								
EFH (C12-C14)	105	110	49-123	6	20				
EFH (C15-C20)	118	116	49-123	1	20				
EFH (C21-C30)	100	96	49-123	4	20				
EFH (C30 - C40)	94	95	49-123	2	20				
EFH (C8-C11)	99	101	49-123	4	20				
Batch number: 111570001A	Sample number(s): 6306847,6306851-6306854 UNSPK: P305886								
Diethylene glycol	7*	8*	59-109	8	20				
Ethylene glycol	38*	41*	63-107	7	20				
Propylene glycol	54*	57*	63-107	7	20				
Batch number: 111580038A	Sample number(s): 6306847,6306851-6306854 UNSPK: 6306851								
Ethanol	79	79	48-130	0	20				
Isopropanol	77	77	12-149	1	20				
Methanol	81	82	43-138	0	20				
Batch number: 111590037A	Sample number(s): 6306847,6306851-6306854 UNSPK: P305964								
m-Terphenyl	68*	0*	75-125	200*	20				
o-Terphenyl	76	840*	75-125	167*	20				
p-Terphenyl	79	0*	75-125	200*	20				
Batch number: 111641026002A	Sample number(s): 6306833-6306848,6306851-6306856 UNSPK: 6306836 BKG: 6306836								
Antimony	66*	66*	75-125	0	20	0.324	0.278	15 (1)	20
Arsenic	275*	210*	75-125	10	20	7.44	5.92	23*	20
Beryllium	154*	144*	75-125	4	20	0.779	0.602	26*	20
Cadmium	178*	160*	75-125	8	20	0.405	0.312	26* (1)	20
Chromium	235*	194*	75-125	8	20	31.5	26.4	18	20
Cobalt	191*	176*	75-125	7	20	11.5	8.95	25*	20
Copper	216*	193*	75-125	6	20	16.7	13.7	20	20
Lead	242*	204*	75-125	6	20	11.2	8.55	27*	20
Nickel	182*	159*	75-125	6	20	19.6	16.5	18	20
Silver	163*	154*	75-125	5	20	0.0417 J	0.0326 J	24* (1)	20
Thallium	163*	149*	75-125	6	20	0.400	0.303	28* (1)	20
Vanadium	293 (2)	251 (2)	75-125	5	20	52.9	43.8	19	20
Zinc	412 (2)	346 (2)	75-125	5	20	83.8	69.6	19	20
Batch number: 111641026002B	Sample number(s): 6306833-6306848,6306851-6306856 UNSPK: 6306836 BKG: 6306836								
Selenium	143*	138*	75-125	4	20	0.237 J	0.190 J	22* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111641026002C	Sample number(s): 6306833-6306848,6306851-6306856 UNSPK: 6306836 BKG: 6306836								
Molybdenum	175*	163*	75-125	7	20	0.863	0.657	27*	20
Batch number: 111641026002D	Sample number(s): 6306833-6306848,6306851-6306856 UNSPK: 6306836 BKG: 6306836								
Barium	-159 (2)	-227 (2)	75-125	6	20	137	106	26*	20
Batch number: 111645708002	Sample number(s): 6306833-6306848,6306851-6306856 UNSPK: 6306836 BKG: 6306836								
Aluminum	1984 (2)	1712 (2)	75-125	3	20	18,900	21,200	11	20
Boron	99	95	84-115	6	20	0.881 U	0.873 U	0 (1)	20
Calcium	184 (2)	195 (2)	75-125	0	20	4,090	4,600	12	20
Iron	-661 (2)	2110 (2)	75-125	10	20	26,500	25,900	2	20
Lithium	104	101	82-114	5	20	22.7	26.2	14	20
Magnesium	241 (2)	181 (2)	75-125	2	20	5,590	6,350	13	20
Manganese	100 (2)	114 (2)	75-125	1	20	403	411	2	20
Phosphorus	75 (2)	118 (2)	75-125	7	20	507	510	1	20
Potassium	143 (2)	129 (2)	75-125	3	20	5,380	6,050	12	20
Sodium	97	96	75-125	4	20	86.7 J	96.7 J	11 (1)	20
Strontium	102	98	75-115	6	20	26.4	27.0	2	20
Tin	88	89	80-110	1	20	3.20 J	3.17 J	1 (1)	20
Titanium	476 (2)	583 (2)	75-125	5	20	1,430	1,490	4	20
Zirconium	93	91	75-125	4	20	7.19	7.84	9 (1)	20
Batch number: 111645711002	Sample number(s): 6306833-6306848,6306851-6306856 UNSPK: 6306836 BKG: 6306836								
Mercury	101	104	80-120	1	20	0.0027 U	0.0027 U	0 (1)	20
Batch number: 11160102201A	Sample number(s): 6306847,6306851-6306854 UNSPK: 6306847 BKG: 6306847								
17a Cyanide by 9012B	104		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11160243201A	Sample number(s): 6306833-6306837,6306839-6306848,6306851-6306856 UNSPK: 6306836 BKG: 6306836								
3a Cr VI by EPA 7199	77		75-125			0.31 J	0.64 J	69* (1)	20
Batch number: 11168373204A	Sample number(s): 6306833-6306837,6306839-6306845 UNSPK: 6306836 BKG: 6306836								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11168373204B	Sample number(s): 6306846-6306848,6306851-6306856 UNSPK: 6306846 BKG: 6306846								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11168621203A	Sample number(s): 6306833-6306837,6306839-6306845 UNSPK: 6306836 BKG: 6306836								
11a Anions by 300.0 - Fluoride	56*		80-120			1.5	2.0	25* (1)	20
Batch number: 11168621203B	Sample number(s): 6306846-6306848,6306851-6306856 UNSPK: 6306846 BKG: 6306846								
11a Anions by 300.0 - Fluoride	48*		80-120			1.6	1.8	13 (1)	20
11a Anions by 300.0 - Nitrate	83		80-120			3.2	3.0	5 (1)	20
Batch number: 11158039403A	Sample number(s): 6306833-6306836,6306839-6306844 BKG: 6306836								
18a pH by 9045C						7.00	7.03	0	3
Batch number: 11158039403B	Sample number(s): 6306845-6306848,6306851-6306856 BKG: 6306848								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
18a pH by 9045C						7.06	7.17	2	3
Batch number: 11166162401A	Sample number(s): 6306833-6306846,6306848,6306855-6306856					BKG: 6306836			
28a Moisture Content by 160.3						4.4	4.3	2	20
Moisture Content by 160.3						4.4	4.3	2	20
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11174162401B	Sample number(s): 6306847,6306851-6306854					BKG: P305966			
Moisture Content by 160.3						12.2	11.7	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111591AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6306851	105	103	99	95
6306852	103	101	99	94
6306853	104	105	98	94
6306854	105	102	98	94
6306855	103	98	99	92
Blank	105	109	98	96
LCS	104	101	101	101
LCSD	102	100	101	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111571AA

	Toluene-d8
6306857	97
Blank	97
LCS	97
LCSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111581AA

	Toluene-d8
6306851	94
6306852	94
6306853	95
6306854	94
6306855	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Surrogate Quality Control

Blank	95
LCS	95
LCSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111582AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6306857	105	102	100	97
Blank	106	101	100	97
LCS	105	100	100	103
LCSD	104	98	100	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11157WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6306849	105	97	109
6306850	106	99	106
Blank	108	105	117
LCS	103	98	112
LCSD	95	90	112
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11158WAI026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6306849	50	32	92	87	84	82
6306850	51	31	96	89	87	83
Blank	52	40	93	87	84	83
LCS	61	45	91	86	88	87
LCSD	60	46	93	90	87	89
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11160SLB026

	N-Nitrosodimethylamine-d6
6306847	1243*
6306851	108
6306852	123
6306853	134
6306854	150
Blank	109
LCS	124
MS	1148*
MSD	1127*
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11160SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6306833	84	87	79	84	87	87
6306834	87	90	81	87	88	89
6306835	84	87	73	84	83	83
6306836	90	95	82	91	92	92
6306837	90	93	88	92	94	93
6306838	86	91	85	90	90	87
6306840	89	92	84	89	92	92
6306841	92	92	81	87	90	91
6306842	89	92	76	88	89	89
6306843	90	93	85	90	94	93
6306844	82	83	74	81	84	87
6306845	88	90	75	86	89	88
6306846	96	97	99	91	87	88
6306847	93	94	88	82	91	85
6306848	92	93	86	87	85	83
6306851	88	89	81	82	79	84
6306852	85	87	82	82	79	82
6306853	91	92	87	86	84	90
6306854	88	89	87	84	81	86
6306855	89	89	88	82	82	85
6306856	89	91	90	82	80	87
Blank	85	88	87	87	83	81
LCS	92	95	95	92	90	91
MS	90	93	88	92	94	93
MSD	86	91	85	90	90	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11167SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6306833	84	90	81
6306834	96	98	84
6306835	96	96	81
6306836	92	82	90
6306837	85	81	92
6306838	105	96	100
6306840	93	93	78
6306841	94	93	81
6306842	97	96	82
6306843	101	95	80
6306844	95	95	85
6306845	93	94	83
6306846	92	99	80
6306847	90	90	77
6306848	92	91	77
6306851	84	83	72
6306852	90	91	81
6306853	91	93	79
6306854	89	90	78
6306855	86	90	79
6306856	85	89	81

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Surrogate Quality Control

Blank	80	90	101
LCS	112	76	92
MS	85	81	92
MSD	105	96	100
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11157A34A

	Trifluorotoluene-F
6306851	74
6306852	78
6306853	71
6306854	75
Blank	85
LCS	91
LCSD	101
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11164B20A

	Trifluorotoluene-F
6306857	66
Blank	67
LCS	93
LCSD	94
Limits:	63-135

Analysis Name: 12b Pesticides by 8081A
Batch number: 111570020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6306850	111	105
Blank	105	95
LCS	105	108
LCSD	107	86
Limits:	52-141	40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111570021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6306849	120	96
6306850	119	101
Blank	125	97
LCS	112	78
LCSD	110	82
Limits:	30-150	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111590006A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Surrogate Quality Control

	Butyraldehyde
6306847	77
6306851	59*
6306852	75
6306853	42*
6306854	49*
Blank	83
LCS	63*
MS	92
MSD	88
Limits:	64-126

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 111590018A

	2,4-Dichlorophenylacetic acid
6306850	79
Blank	79
LCS	97
LCSD	95
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111600014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6306833	82	100
6306834	101	105
6306835	92	98
6306836	98	112
6306837	78	80
6306838	74	89
6306840	93	103
6306841	88	101
6306842	93	105
6306843	100	122*
6306844	97	103
6306845	93	104
6306846	98	100
6306847	85	114
6306848	97	109
6306851	93	97
6306852	109	109
6306853	104	97
6306854	106	114
6306855	89	106
6306856	113	120
Blank	90	107
LCS	84	98
LCSD	87	106
MS	78	80
MSD	74	89

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Surrogate Quality Control

Limits: 53-139 45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 111610002A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6306833	53	101
6306834	48*	89
6306835	60	80
6306836	66	95
6306837	55	89
6306838	49*	75
6306840	50	79
6306841	57	79
6306842	63	86
6306843	56	85
6306844	65	97
6306845	67	96
6306846	35*	43
6306847	52	80
6306848	72	104
Blank	70	111
LCS	72	109
MS	55	89
MSD	49*	75
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 111660015A

	2,4-Dichlorophenylacetic acid
6306833	80
6306834	83
6306835	86
6306836	75
6306837	90
6306838	84
6306840	277*
6306841	84
6306842	87
6306843	78
6306844	83
6306845	88
6306846	83
6306847	91
6306848	93
Blank	85
LCS	90
MS	90
MSD	84
Limits:	36-156

Analysis Name: 16a Energetics by 8330A
Batch number: 111670008A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Surrogate Quality Control

Analysis Name: 21a Glycols by 8015B
Batch number: 111570001A

	2-Nitro-m-xylene	Tetramethylene glycol
6306847	119	87
6306851	119	83
6306852	124	85
6306853	116	88
6306854	118	87
Blank	120	82
LCS	122	91
LCSD	124	
MS	111	79
MSD	107	86
Limits:	80-146	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111580028A

	Chlorobenzene	Orthoterphenyl
6306847	96	103
6306851	86	98
6306852	84	93
6306853	94	106
6306854	91	103
Blank	93	106
LCS	91	108
MS	91	107
MSD	90	104
Limits:	37-125	47-145

Analysis Name: 19a Alcohols by 8015B
Batch number: 111580038A

	Acetone
6306847	83
6306851	83
6306852	79
6306853	77
6306854	81
Blank	94

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249957
Reported: 07/07/11 at 12:24 PM

Surrogate Quality Control

LCS	93
MS	80
MSD	79
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111590037A

	n-Triacontane-d62
6306847	14*
6306851	92
6306852	90
6306853	91
6306854	94
Blank	96
LCS	97
MS	110
MSD	0*
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1249957 Sample#6306833-57

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-SS sleeve			X	X																	
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-SS sleeve			X	X																	
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-SS sleeve			X	X																	
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-SS sleeve			X	X																	
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-SS sleeve			X	X																	
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-SS sleeve			X	X																	
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-SS sleeve			X	X																	
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	1-SS sleeve			X	X																	
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature) — Date/Time: 06/03/2011 / 1700

Received for Laboratory by: (Signature) — 6/4/11 0915

Received by: (Signature) — Date/Time

Airbill No.(s)
8754 3339 9100; 8754 3339 9110
8754 3339 9121; 8754 3339 9132
[redacted]

Laboratory:
Lancaster Laboratories, Inc.

acct#13013 Cap#1249957 Sample#6306833-57

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																		
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers													
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	5-1 liter ambers				X	X	X							
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HNO3	1-500 mL poly		X											
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	1-500 mL poly			X				X	X	X	X	X	X	
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HCl	6-40 mL vials													
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	7-1 liter ambers				X	X	X					X	X	
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	HNO3	1-500 mL poly		X											
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	1-500 mL poly			X				X	X	X				
Relinquished by: (Signature)	Date/Time 06/03/2011 / 1700		Received for Laboratory by: (Signature) 6/4/11 0915														Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 [redacted]															

acct# 13013 Gp# 1249957 Sample# 6306833-57

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS										
SL-019-SA5DN-SB-4.5	6/3/11	1111	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-4.0-5.0	6/3/11	1116	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-019-SA5DN-SB-9.5	6/3/11	1123	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-9.0-10	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-4.5	6/3/11	1445	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-4.0-5.0	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-14.5	6/3/11	1455	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-14.0-15.0	6/3/11	1500	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-052-SA5DN-SB-4.5	6/3/11	1600	SOIL	NONE	4-Encores										X	X											
SL-052-SA5DN-SB-4.0-5.0	6/3/11	1604	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-052-SA5DN-SB-9.0-10.0	6/3/11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-060311	6/3/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature) — Date/Time: 06/3/2011 / 1700

Received for Laboratory by: (Signature) — 6/4/11 0915

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time

Airbill No.(s)
8754 3339 9100; 8754 3339 9110
8754 3339 9121; 8754 3339 9132
8754 3339 9143

Natalie R. Luciano

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Monday, June 06, 2011 5:33 PM
To: Natalie R. Luciano
Cc: Nicole Maljovec
Subject: RE: SSFL COC dated 6/3/2011
Follow Up Flag: Follow up
Flag Status: Red
Attachments: COC 06 03 11.xlsx

Hi Ladies – my apologies for really making a mess of this COC – I must have been trying to nap while putting it together!

I have revised the COC for equipment blank EB14 and in answer to your questions, Natalie, the 40-mL vials should be analyzed for VOCs and 1,4-dioxane only and EB14 should NOT be analyzed for pesticides, herbicides or for perchlorate by method 6850.

And thanks for catching the other error on sample SL-114-SA5DN-SS-0.0-0.5.

Peggy

From: Natalie R. Luciano [mailto:NLuciano@lancasterlabs.com]
Sent: Monday, June 06, 2011 2:09 PM
To: Bloisa, Peggy
Cc: Nicole Maljovec
Subject: FW: SSFL COC dated 6/3/2011

Hello Peggy,

I have some questions related to the attached COC.

EB14-SA5DN-SB-060311

- We received 6-40ml vials as per the COC, but VOCs, 1,4-Dioxane, and TPH-GRO were not requested. Please confirm whether these analyses are needed on EB14.
- The COC is checked for analysis of Pesticides and Herbicides, but we did not receive any extra amber liters for these. Since EB14 is associated with the SB samples, it seems that it would not be analyzed for Pesticides and Herbicides. Please confirm the analyses.
- EB14 is marked for Perchlorate confirmation via method 6850, is this correct?

In regards to a different COC, for sample SL-114-SA5DN-SS-0.0-0.5 (collected 5/31/11 at 15:10) we received 2-16 oz jars and 1-SS sleeve. The COC lists 2-16 oz jars and 1-16 oz jar. I have revised the COC accordingly.

Thank you,
Natalie
Environmental Client Services

Please consider the environment before printing this e-mail.

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Monday, June 06, 2011 4:14 PM

To: Natalie R. Luciano
Subject: SSFL COC dated 6/3/2011

Is attached. Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

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Thank you. If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									Other instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-DRO EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										Amended COC
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-SS sleeve			X	X																	
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-SS sleeve			X	X																	
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-SS sleeve			X	X																	
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-SS sleeve			X	X																	
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-SS sleeve			X	X																	
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-SS sleeve			X	X																	
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-SS sleeve			X	X																	
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	1-SS sleeve			X	X																	
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/03/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 8754 3339 9143	

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $.	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	5-1 liter ambers			X	X	X									Amended CoC
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HNO3	1-500 mL poly	X													
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	1-500 mL poly		X				X	X	X						
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HCl	6-40 mL vials											X	X		
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	7-1 liter ambers			X	X	X				X	X				
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	HNO3	1-500 mL poly	X													
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	1-500 mL poly		X				X	X	X						

Relinquished by: (*Signature*)	**Date/Time** 06/03/2011 / 1700	**Received for Laboratory by: (*Signature*)**	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 8754 3339 9143	

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
SL-019-SA5DN-SB-4.5	6/3/11	1111	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-4.0-5.0	6/3/11	1116	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-019-SA5DN-SB-9.5	6/3/11	1123	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-9.0-10	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-4.5	6/3/11	1445	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-4.0-5.0	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-14.5	6/3/11	1455	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-14.0-15.0	6/3/11	1500	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-052-SA5DN-SB-4.5	6/3/11	1600	SOIL	NONE	4-Encores										X	X											
SL-052-SA5DN-SB-4.0-5.0	6/3/11	1604	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-052-SA5DN-SB-9.0-10.0	6/3/11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-060311	6/3/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/3/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 8754 3339 9143	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/04/2011
Group Number: 1249958
SDG: DX098
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-152-SA5DN-SS-0.0-0.5 Soil	6306858
SL-153-SA5DN-SS-0.0-0.5 Soil	6306859
SL-154-SA5DN-SS-0.0-0.5 Soil	6306860
SL-155-SA5DN-SS-0.0-0.5 Soil	6306861
SL-155-SA5DN-SS-0.0-0.5MS Soil	6306862
SL-155-SA5DN-SS-0.0-0.5MSD Soil	6306863
SL-156-SA5DN-SS-0.0-0.5 Soil	6306864
SL-157-SA5DN-SS-0.0-0.5 Soil	6306865
SL-158-SA5DN-SS-0.0-0.5 Soil	6306866
SL-159-SA5DN-SS-0.0-0.5 Soil	6306867
SL-160-SA5DN-SS-0.0-0.5 Soil	6306868
SL-162-SA5DN-SS-0.0-0.5 Soil	6306869
SL-166-SA5DN-SS-0.0-0.5 Soil	6306870
SL-207-SA5DN-SS-0.0-0.5 Soil	6306871
DUP-13-SA5DN-QC-060311 Soil	6306872
EB14-SA5DN-SB-060311 Water	6306873
EB13-SA5DN-SS-060311 Water	6306874
SL-019-SA5DN-SB-4.0-5.0 Soil	6306875
SL-019-SA5DN-SB-9.0-10.0 Soil	6306876
SL-027-SA5DN-SB-4.0-5.0 Soil	6306877
SL-027-SA5DN-SB-14.0-15.0 Soil	6306878
SL-052-SA5DN-SB-4.0-5.0 Soil	6306879
SL-052-SA5DN-SB-9.0-10.0 Soil	6306880

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306858
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9805 SDG#: DX098-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-152-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306858
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9805 SDG#: DX098-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0200	JQ	0.0141	1.07	1
11031	12378-PeCDD	40321-76-4	0.0763	JB	0.0209	5.35	1
11031	123478-HxCDD	39227-28-6	0.136	J	0.0370	5.35	1
11031	123678-HxCDD	57653-85-7	0.351	JBQ	0.0376	5.35	1
11031	123789-HxCDD	19408-74-3	0.340	JB	0.0353	5.35	1
11031	1234678-HpCDD	35822-46-9	6.28	B	0.0441	5.35	1
11031	OCDD	3268-87-9	84.1	B	0.0373	10.7	1
11031	2378-TCDF	51207-31-9	0.0756	JQ	0.0247	1.07	1
11031	12378-PeCDF	57117-41-6	0.136	JB	0.0156	5.35	1
11031	23478-PeCDF	57117-31-4	0.188	JBQ	0.0147	5.35	1
11031	123478-HxCDF	70648-26-9	0.220	JB	0.0295	5.35	1
11031	123678-HxCDF	57117-44-9	0.154	JB	0.0267	5.35	1
11031	123789-HxCDF	72918-21-9	0.111	JB	0.0339	5.35	1
11031	234678-HxCDF	60851-34-5	0.160	JB	0.0277	5.35	1
11031	1234678-HpCDF	67562-39-4	0.968	JB	0.0194	5.35	1
11031	1234789-HpCDF	55673-89-7	0.148	JBQ	0.0286	5.35	1
11031	OCDF	39001-02-0	2.47	JB	0.0314	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-152-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306858
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9805 SDG#: DX098-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-152-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306858
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9805 SDG#: DX098-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/20/2011 19:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306859
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9806 SDG#: DX098-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306859
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9806 SDG#: DX098-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0157	U	0.0157	1.06	1
11031	12378-PeCDD	40321-76-4	0.119	JB	0.0260	5.32	1
11031	123478-HxCDD	39227-28-6	0.0751	J	0.0389	5.32	1
11031	123678-HxCDD	57653-85-7	0.551	JB	0.0400	5.32	1
11031	123789-HxCDD	19408-74-3	0.728	JB	0.0385	5.32	1
11031	1234678-HpCDD	35822-46-9	5.99	B	0.0438	5.32	1
11031	OCDD	3268-87-9	77.8	B	0.0510	10.6	1
11031	2378-TCDF	51207-31-9	0.0465	J	0.0283	1.06	1
11031	12378-PeCDF	57117-41-6	0.159	JB	0.0178	5.32	1
11031	23478-PeCDF	57117-31-4	0.114	JB	0.0174	5.32	1
11031	123478-HxCDF	70648-26-9	0.117	JBQ	0.0282	5.32	1
11031	123678-HxCDF	57117-44-9	0.0790	JB	0.0244	5.32	1
11031	123789-HxCDF	72918-21-9	0.556	JB	0.0275	5.32	1
11031	234678-HxCDF	60851-34-5	0.0865	JBQ	0.0266	5.32	1
11031	1234678-HpCDF	67562-39-4	0.756	JB	0.0227	5.32	1
11031	1234789-HpCDF	55673-89-7	0.104	JB	0.0334	5.32	1
11031	OCDF	39001-02-0	2.24	JB	0.0333	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	70	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-153-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306859
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9806 SDG#: DX098-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-153-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306859
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:10

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9806 SDG#: DX098-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/20/2011 20:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306860
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9807 SDG#: DX098-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306860
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9807 SDG#: DX098-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0210	J	0.0151	1.09	1
11031	12378-PeCDD	40321-76-4	0.204	JBQ	0.0341	5.44	1
11031	123478-HxCDD	39227-28-6	0.151	J	0.0368	5.44	1
11031	123678-HxCDD	57653-85-7	0.867	JB	0.0381	5.44	1
11031	123789-HxCDD	19408-74-3	1.12	JB	0.0362	5.44	1
11031	1234678-HpCDD	35822-46-9	12.0	B	0.0488	5.44	1
11031	OCDD	3268-87-9	199	B	0.0466	10.9	1
11031	2378-TCDF	51207-31-9	0.0525	J	0.0335	1.09	1
11031	12378-PeCDF	57117-41-6	0.298	JB	0.0174	5.44	1
11031	23478-PeCDF	57117-31-4	0.153	JB	0.0167	5.44	1
11031	123478-HxCDF	70648-26-9	0.220	JB	0.0313	5.44	1
11031	123678-HxCDF	57117-44-9	0.144	JB	0.0288	5.44	1
11031	123789-HxCDF	72918-21-9	0.989	JB	0.0305	5.44	1
11031	234678-HxCDF	60851-34-5	0.132	JB	0.0291	5.44	1
11031	1234678-HpCDF	67562-39-4	1.86	JB	0.0191	5.44	1
11031	1234789-HpCDF	55673-89-7	0.182	JB	0.0290	5.44	1
11031	OCDF	39001-02-0	8.05	JB	0.0252	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306860
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9807 SDG#: DX098-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-154-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306860
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:20

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9807 SDG#: DX098-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/20/2011 21:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306861
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306861
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0404	J	0.0144	1.03	1
11031	12378-PeCDD	40321-76-4	0.203	JBQ	0.0331	5.16	1
11031	123478-HxCDD	39227-28-6	0.287	JQ	0.0490	5.16	1
11031	123678-HxCDD	57653-85-7	1.05	JB	0.0527	5.16	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0507	5.16	1
11031	1234678-HpCDD	35822-46-9	14.2	B	0.0654	5.16	1
11031	OCDD	3268-87-9	186	B	0.0552	10.3	1
11031	2378-TCDF	51207-31-9	0.169	J	0.0380	1.03	1
11031	12378-PeCDF	57117-41-6	0.327	JB	0.0224	5.16	1
11031	23478-PeCDF	57117-31-4	0.318	JB	0.0213	5.16	1
11031	123478-HxCDF	70648-26-9	0.294	JBQ	0.0356	5.16	1
11031	123678-HxCDF	57117-44-9	0.200	JB	0.0331	5.16	1
11031	123789-HxCDF	72918-21-9	1.04	JBQ	0.0386	5.16	1
11031	234678-HxCDF	60851-34-5	0.225	JBQ	0.0331	5.16	1
11031	1234678-HpCDF	67562-39-4	2.09	JB	0.0262	5.16	1
11031	1234789-HpCDF	55673-89-7	0.243	JBQ	0.0360	5.16	1
11031	OCDF	39001-02-0	6.88	JB	0.0362	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	78	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-155-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306861
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306861
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 01:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306862
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306862
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.4		0.0263	1.04	1
11031	12378-PeCDD	40321-76-4	93.5	B	0.0471	5.21	1
11031	123478-HxCDD	39227-28-6	93.3		0.0532	5.21	1
11031	123678-HxCDD	57653-85-7	94.0	B	0.0555	5.21	1
11031	123789-HxCDD	19408-74-3	94.8	B	0.0540	5.21	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0637	5.21	1
11031	OCDD	3268-87-9	338	B	0.0536	10.4	1
11031	2378-TCDF	51207-31-9	18.9		0.0573	1.04	1
11031	12378-PeCDF	57117-41-6	94.4	B	0.0373	5.21	1
11031	23478-PeCDF	57117-31-4	94.8	B	0.0353	5.21	1
11031	123478-HxCDF	70648-26-9	96.1	B	0.0657	5.21	1
11031	123678-HxCDF	57117-44-9	96.8	B	0.0613	5.21	1
11031	123789-HxCDF	72918-21-9	96.0	B	0.0649	5.21	1
11031	234678-HxCDF	60851-34-5	95.4	B	0.0603	5.21	1
11031	1234678-HpCDF	67562-39-4	96.3	B	0.0415	5.21	1
11031	1234789-HpCDF	55673-89-7	95.1	B	0.0600	5.21	1
11031	OCDF	39001-02-0	198	B	0.0605	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-155-SA5DN-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306862
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306862
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 02:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306863
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306863
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	17.7		0.0316	1.04	1
11031	12378-PeCDD	40321-76-4	93.5	B	0.0464	5.19	1
11031	123478-HxCDD	39227-28-6	94.5		0.0516	5.19	1
11031	123678-HxCDD	57653-85-7	93.8	B	0.0523	5.19	1
11031	123789-HxCDD	19408-74-3	93.6	B	0.0500	5.19	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0627	5.19	1
11031	OCDD	3268-87-9	339	B	0.0653	10.4	1
11031	2378-TCDF	51207-31-9	18.9		0.0616	1.04	1
11031	12378-PeCDF	57117-41-6	98.8	B	0.0366	5.19	1
11031	23478-PeCDF	57117-31-4	93.6	B	0.0376	5.19	1
11031	123478-HxCDF	70648-26-9	95.4	B	0.0662	5.19	1
11031	123678-HxCDF	57117-44-9	96.1	B	0.0609	5.19	1
11031	123789-HxCDF	72918-21-9	97.3	B	0.0692	5.19	1
11031	234678-HxCDF	60851-34-5	95.0	B	0.0652	5.19	1
11031	1234678-HpCDF	67562-39-4	95.0	B	0.0414	5.19	1
11031	1234789-HpCDF	55673-89-7	95.2	B	0.0598	5.19	1
11031	OCDF	39001-02-0	200	B	0.0476	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	59	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-155-SA5DN-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306863
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-155-SA5DN-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306863
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9808 SDG#: DX098-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 03:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306864
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9809 SDG#: DX098-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306864
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9809 SDG#: DX098-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0667	JQ	0.0188	1.11	1
11031	12378-PeCDD	40321-76-4	0.403	JBQ	0.0400	5.54	1
11031	123478-HxCDD	39227-28-6	0.387	J	0.0509	5.54	1
11031	123678-HxCDD	57653-85-7	1.36	JB	0.0527	5.54	1
11031	123789-HxCDD	19408-74-3	1.44	JB	0.0498	5.54	1
11031	1234678-HpCDD	35822-46-9	18.9	B	0.0657	5.54	1
11031	OCDD	3268-87-9	221	B	0.0682	11.1	1
11031	2378-TCDF	51207-31-9	0.283	J	0.0574	1.11	1
11031	12378-PeCDF	57117-41-6	0.685	JB	0.0288	5.54	1
11031	23478-PeCDF	57117-31-4	0.540	JB	0.0274	5.54	1
11031	123478-HxCDF	70648-26-9	0.570	JB	0.0447	5.54	1
11031	123678-HxCDF	57117-44-9	0.410	JB	0.0408	5.54	1
11031	123789-HxCDF	72918-21-9	1.49	JB	0.0443	5.54	1
11031	234678-HxCDF	60851-34-5	0.385	JB	0.0420	5.54	1
11031	1234678-HpCDF	67562-39-4	3.31	JB	0.0278	5.54	1
11031	1234789-HpCDF	55673-89-7	0.409	JB	0.0397	5.54	1
11031	OCDF	39001-02-0	11.6	B	0.0414	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-156-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306864
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9809 SDG#: DX098-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-156-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306864
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9809 SDG#: DX098-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 04:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306865
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9810 SDG#: DX098-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306865
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9810 SDG#: DX098-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0441	J	0.0164	1.08	1
11031	12378-PeCDD	40321-76-4	0.342	JB	0.0320	5.40	1
11031	123478-HxCDD	39227-28-6	0.225	JQ	0.0435	5.40	1
11031	123678-HxCDD	57653-85-7	0.865	JB	0.0435	5.40	1
11031	123789-HxCDD	19408-74-3	1.03	JB	0.0418	5.40	1
11031	1234678-HpCDD	35822-46-9	10.0	B	0.0463	5.40	1
11031	OCDD	3268-87-9	138	B	0.0435	10.8	1
11031	2378-TCDF	51207-31-9	0.290	J	0.0497	1.08	1
11031	12378-PeCDF	57117-41-6	0.478	JB	0.0248	5.40	1
11031	23478-PeCDF	57117-31-4	0.513	JB	0.0239	5.40	1
11031	123478-HxCDF	70648-26-9	0.400	JBQ	0.0360	5.40	1
11031	123678-HxCDF	57117-44-9	0.280	JBQ	0.0328	5.40	1
11031	123789-HxCDF	72918-21-9	1.21	JB	0.0357	5.40	1
11031	234678-HxCDF	60851-34-5	0.270	JB	0.0352	5.40	1
11031	1234678-HpCDF	67562-39-4	1.61	JB	0.0192	5.40	1
11031	1234789-HpCDF	55673-89-7	0.178	JB	0.0276	5.40	1
11031	OCDF	39001-02-0	5.00	JB	0.0315	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-157-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306865
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9810 SDG#: DX098-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-157-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306865
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:05

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9810 SDG#: DX098-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 04:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306866
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9811 SDG#: DX098-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306866
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9811 SDG#: DX098-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0223	J	0.0172	1.07	1
11031	12378-PeCDD	40321-76-4	0.196	JB	0.0301	5.37	1
11031	123478-HxCDD	39227-28-6	0.155	J	0.0417	5.37	1
11031	123678-HxCDD	57653-85-7	0.751	JB	0.0436	5.37	1
11031	123789-HxCDD	19408-74-3	0.866	JB	0.0428	5.37	1
11031	1234678-HpCDD	35822-46-9	8.06	B	0.0454	5.37	1
11031	OCDD	3268-87-9	106	B	0.0413	10.7	1
11031	2378-TCDF	51207-31-9	0.259	J	0.0479	1.07	1
11031	12378-PeCDF	57117-41-6	0.330	JB	0.0253	5.37	1
11031	23478-PeCDF	57117-31-4	0.388	JB	0.0243	5.37	1
11031	123478-HxCDF	70648-26-9	0.297	JB	0.0362	5.37	1
11031	123678-HxCDF	57117-44-9	0.202	JB	0.0324	5.37	1
11031	123789-HxCDF	72918-21-9	1.07	JB	0.0355	5.37	1
11031	234678-HxCDF	60851-34-5	0.199	JB	0.0323	5.37	1
11031	1234678-HpCDF	67562-39-4	1.36	JB	0.0189	5.37	1
11031	1234789-HpCDF	55673-89-7	0.122	JB	0.0281	5.37	1
11031	OCDF	39001-02-0	4.03	JB	0.0332	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-158-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306866
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9811 SDG#: DX098-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-158-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306866
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9811 SDG#: DX098-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 05:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306867
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9812 SDG#: DX098-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306867
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9812 SDG#: DX098-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0273	JQ	0.0180	1.11	1
11031	12378-PeCDD	40321-76-4	0.183	JB	0.0392	5.53	1
11031	123478-HxCDD	39227-28-6	0.132	JQ	0.0379	5.53	1
11031	123678-HxCDD	57653-85-7	0.958	JB	0.0398	5.53	1
11031	123789-HxCDD	19408-74-3	1.13	JB	0.0384	5.53	1
11031	1234678-HpCDD	35822-46-9	8.36	B	0.0382	5.53	1
11031	OCDD	3268-87-9	112	B	0.0385	11.1	1
11031	2378-TCDF	51207-31-9	0.532	J	0.108	1.11	1
11031	12378-PeCDF	57117-41-6	0.925	JB	0.0384	5.53	1
11031	23478-PeCDF	57117-31-4	0.575	JB	0.0361	5.53	1
11031	123478-HxCDF	70648-26-9	0.475	JB	0.0423	5.53	1
11031	123678-HxCDF	57117-44-9	0.235	JB	0.0383	5.53	1
11031	123789-HxCDF	72918-21-9	1.35	JB	0.0413	5.53	1
11031	234678-HxCDF	60851-34-5	0.189	JBQ	0.0375	5.53	1
11031	1234678-HpCDF	67562-39-4	1.58	JB	0.0199	5.53	1
11031	1234789-HpCDF	55673-89-7	0.154	JBQ	0.0295	5.53	1
11031	OCDF	39001-02-0	4.96	JB	0.0265	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306867
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9812 SDG#: DX098-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306867
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 09:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9812 SDG#: DX098-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 06:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306868
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9813 SDG#: DX098-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306868
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9813 SDG#: DX098-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0193 J	0.0176	1.03	1
11031	12378-PeCDD	40321-76-4	0.0859 JBQ	0.0288	5.16	1
11031	123478-HxCDD	39227-28-6	0.0618 JQ	0.0318	5.16	1
11031	123678-HxCDD	57653-85-7	0.437 JB	0.0330	5.16	1
11031	123789-HxCDD	19408-74-3	0.639 JB	0.0315	5.16	1
11031	1234678-HpCDD	35822-46-9	3.25 JB	0.0298	5.16	1
11031	OCDD	3268-87-9	37.1 B	0.0253	10.3	1
11031	2378-TCDF	51207-31-9	0.0294 U	0.0294	1.03	1
11031	12378-PeCDF	57117-41-6	0.181 JB	0.0158	5.16	1
11031	23478-PeCDF	57117-31-4	0.107 JBQ	0.0154	5.16	1
11031	123478-HxCDF	70648-26-9	0.0884 JBQ	0.0201	5.16	1
11031	123678-HxCDF	57117-44-9	0.0792 JB	0.0183	5.16	1
11031	123789-HxCDF	72918-21-9	0.822 JB	0.0193	5.16	1
11031	234678-HxCDF	60851-34-5	0.0516 JBQ	0.0184	5.16	1
11031	1234678-HpCDF	67562-39-4	0.511 JB	0.0188	5.16	1
11031	1234789-HpCDF	55673-89-7	0.0428 JB	0.0264	5.16	1
11031	OCDF	39001-02-0	1.75 JB	0.0234	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306868
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9813 SDG#: DX098-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-160-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306868
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9813 SDG#: DX098-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 07:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-162-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306869
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9814 SDG#: DX098-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306869
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9814 SDG#: DX098-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0410	JQ	0.0157	1.10	1
11031	12378-PeCDD	40321-76-4	0.242	JBQ	0.0404	5.52	1
11031	123478-HxCDD	39227-28-6	0.197	J	0.0419	5.52	1
11031	123678-HxCDD	57653-85-7	1.01	JB	0.0439	5.52	1
11031	123789-HxCDD	19408-74-3	1.26	JB	0.0410	5.52	1
11031	1234678-HpCDD	35822-46-9	8.86	B	0.0378	5.52	1
11031	OCDD	3268-87-9	96.2	B	0.0352	11.0	1
11031	2378-TCDF	51207-31-9	0.252	J	0.0428	1.10	1
11031	12378-PeCDF	57117-41-6	0.238	JB	0.0223	5.52	1
11031	23478-PeCDF	57117-31-4	0.358	JB	0.0211	5.52	1
11031	123478-HxCDF	70648-26-9	0.348	JBQ	0.0353	5.52	1
11031	123678-HxCDF	57117-44-9	0.197	JB	0.0329	5.52	1
11031	123789-HxCDF	72918-21-9	1.17	JB	0.0276	5.52	1
11031	234678-HxCDF	60851-34-5	0.179	JBQ	0.0278	5.52	1
11031	1234678-HpCDF	67562-39-4	1.10	JB	0.0208	5.52	1
11031	1234789-HpCDF	55673-89-7	0.103	JBQ	0.0231	5.52	1
11031	OCDF	39001-02-0	2.99	JB	0.0243	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306869
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9814 SDG#: DX098-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-162-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306869
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9814 SDG#: DX098-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 08:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306870
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9815 SDG#: DX098-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306870
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9815 SDG#: DX098-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0179	U	0.0179	1.09	1
11031	12378-PeCDD	40321-76-4	0.163	JBQ	0.0302	5.43	1
11031	123478-HxCDD	39227-28-6	0.204	J	0.0493	5.43	1
11031	123678-HxCDD	57653-85-7	0.807	JB	0.0519	5.43	1
11031	123789-HxCDD	19408-74-3	0.558	JB	0.0477	5.43	1
11031	1234678-HpCDD	35822-46-9	23.1	B	0.0641	5.43	1
11031	OCDD	3268-87-9	281	B	0.0680	10.9	1
11031	2378-TCDF	51207-31-9	0.659	J	0.109	1.09	1
11031	12378-PeCDF	57117-41-6	0.602	JB	0.0432	5.43	1
11031	23478-PeCDF	57117-31-4	0.571	JB	0.0405	5.43	1
11031	123478-HxCDF	70648-26-9	0.611	JB	0.0405	5.43	1
11031	123678-HxCDF	57117-44-9	0.228	JBQ	0.0373	5.43	1
11031	123789-HxCDF	72918-21-9	0.296	JB	0.0408	5.43	1
11031	234678-HxCDF	60851-34-5	0.271	JB	0.0375	5.43	1
11031	1234678-HpCDF	67562-39-4	3.44	JB	0.0261	5.43	1
11031	1234789-HpCDF	55673-89-7	0.164	JBQ	0.0369	5.43	1
11031	OCDF	39001-02-0	11.9	B	0.0297	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	73	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-166-SA5DN-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306870
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9815 SDG#: DX098-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-166-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306870
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:25

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9815 SDG#: DX098-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 09:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306871
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9816 SDG#: DX098-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306871
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9816 SDG#: DX098-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.371	J	0.0247	1.06	1
11031	12378-PeCDD	40321-76-4	2.17	JB	0.100	5.29	1
11031	123478-HxCDD	39227-28-6	0.260	J	0.0676	5.29	1
11031	123678-HxCDD	57653-85-7	1.15	JB	0.0714	5.29	1
11031	123789-HxCDD	19408-74-3	1.35	JB	0.0682	5.29	1
11031	1234678-HpCDD	35822-46-9	15.1	B	0.0739	5.29	1
11031	OCDD	3268-87-9	165	B	0.0625	10.6	1
11031	2378-TCDF	51207-31-9	4.78		0.327	1.06	1
11650	2378-TCDF-Conf	51207-31-9	2.30	B	0.0929	1.06	1
11031	12378-PeCDF	57117-41-6	4.47	JB	0.147	5.29	1
11031	23478-PeCDF	57117-31-4	4.12	JB	0.137	5.29	1
11031	123478-HxCDF	70648-26-9	25.9	B	0.128	5.29	1
11031	123678-HxCDF	57117-44-9	1.32	JB	0.121	5.29	1
11031	123789-HxCDF	72918-21-9	1.33	JB	0.112	5.29	1
11031	234678-HxCDF	60851-34-5	1.28	JB	0.109	5.29	1
11031	1234678-HpCDF	67562-39-4	4.06	JB	0.0455	5.29	1
11031	1234789-HpCDF	55673-89-7	0.624	JB	0.0550	5.29	1
11031	OCDF	39001-02-0	6.73	JB	0.0502	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-2378-TCDF-Conf	66	24 - 169
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306871
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9816 SDG#: DX098-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-207-SA5DN-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-207-SA5DN-SS-0.0-0.5

LLI Sample # SW 6306871
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 08:35

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9816 SDG#: DX098-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 17:53	Nelson H Risser	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11168002	06/24/2011 03:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306872
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9817 SDG#: DX098-17FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306872
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9817 SDG#: DX098-17FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0227	JQ	0.0172	1.04	1
11031	12378-PeCDD	40321-76-4	0.205	JB	0.0309	5.19	1
11031	123478-HxCDD	39227-28-6	0.272	JQ	0.0481	5.19	1
11031	123678-HxCDD	57653-85-7	0.958	JB	0.0506	5.19	1
11031	123789-HxCDD	19408-74-3	1.06	JB	0.0496	5.19	1
11031	1234678-HpCDD	35822-46-9	15.0	B	0.0740	5.19	1
11031	OCDD	3268-87-9	190	B	0.0635	10.4	1
11031	2378-TCDF	51207-31-9	0.123	J	0.0382	1.04	1
11031	12378-PeCDF	57117-41-6	0.234	JB	0.0224	5.19	1
11031	23478-PeCDF	57117-31-4	0.227	JB	0.0206	5.19	1
11031	123478-HxCDF	70648-26-9	0.303	JB	0.0381	5.19	1
11031	123678-HxCDF	57117-44-9	0.179	JB	0.0345	5.19	1
11031	123789-HxCDF	72918-21-9	1.06	JB	0.0361	5.19	1
11031	234678-HxCDF	60851-34-5	0.211	JB	0.0332	5.19	1
11031	1234678-HpCDF	67562-39-4	2.02	JB	0.0280	5.19	1
11031	1234789-HpCDF	55673-89-7	0.236	JB	0.0392	5.19	1
11031	OCDF	39001-02-0	6.78	JB	0.0419	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP-13-SA5DN-QC-060311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306872
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9817 SDG#: DX098-17FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP-13-SA5DN-QC-060311 Soil
SSFL Area IV Collocated Soil Sampling
DUP-13-SA5DN-QC-060311

LLI Sample # SW 6306872
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 10:55

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

X9817 SDG#: DX098-17FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 18:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB14-SA5DN-SB-060311 Water
SSFL Area IV Collocated Soil Sampling
EB14-SA5DN-SB-060311

LLI Sample # WW 6306873
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9818 SDG#: DX098-18EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.244	U	0.244	2.08	1
10915	12378-PeCDD	40321-76-4	0.238	U	0.238	10.4	1
10915	123478-HxCDD	39227-28-6	0.186	U	0.186	10.4	1
10915	123678-HxCDD	57653-85-7	0.373	JBQ	0.195	10.4	1
10915	123789-HxCDD	19408-74-3	0.560	JB	0.192	10.4	1
10915	1234678-HpCDD	35822-46-9	4.48	JB	0.293	10.4	1
10915	OCDD	3268-87-9	9.80	JB	0.276	20.8	1
10915	2378-TCDF	51207-31-9	0.237	U	0.237	2.08	1
10915	12378-PeCDF	57117-41-6	0.549	JBQ	0.153	10.4	1
10915	23478-PeCDF	57117-31-4	0.712	JB	0.137	10.4	1
10915	123478-HxCDF	70648-26-9	0.295	JBQ	0.140	10.4	1
10915	123678-HxCDF	57117-44-9	0.396	JB	0.138	10.4	1
10915	123789-HxCDF	72918-21-9	0.649	JBQ	0.153	10.4	1
10915	234678-HxCDF	60851-34-5	0.397	JB	0.140	10.4	1
10915	1234678-HpCDF	67562-39-4	0.902	JB	0.114	10.4	1
10915	1234789-HpCDF	55673-89-7	0.283	JB	0.135	10.4	1
10915	OCDF	39001-02-0	1.73	JBQ	0.408	20.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	63	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	64	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	46	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	60	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB14-SA5DN-SB-060311 Water**
SSFL Area IV Collocated Soil Sampling
EB14-SA5DN-SB-060311

LLI Sample # WW 6306873
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 12:45

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9818 SDG#: DX098-18EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161005	06/15/2011 01:43	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11161005	06/11/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB13-SA5DN-SS-060311 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306874
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 13:30

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9819 SDG#: DX098-19EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.320	JBQ	0.272	2.12	1
10915	12378-PeCDD	40321-76-4	0.250	U	0.250	10.6	1
10915	123478-HxCDD	39227-28-6	0.207	JBQ	0.206	10.6	1
10915	123678-HxCDD	57653-85-7	0.471	JB	0.217	10.6	1
10915	123789-HxCDD	19408-74-3	0.380	JBQ	0.207	10.6	1
10915	1234678-HpCDD	35822-46-9	4.91	JBQ	0.302	10.6	1
10915	OCDD	3268-87-9	9.11	JB	0.303	21.2	1
10915	2378-TCDF	51207-31-9	0.254	U	0.254	2.12	1
10915	12378-PeCDF	57117-41-6	0.312	JBQ	0.158	10.6	1
10915	23478-PeCDF	57117-31-4	0.551	JBQ	0.141	10.6	1
10915	123478-HxCDF	70648-26-9	0.399	JBQ	0.184	10.6	1
10915	123678-HxCDF	57117-44-9	0.391	JB	0.172	10.6	1
10915	123789-HxCDF	72918-21-9	0.324	JBQ	0.184	10.6	1
10915	234678-HxCDF	60851-34-5	0.344	JBQ	0.156	10.6	1
10915	1234678-HpCDF	67562-39-4	0.801	JBQ	0.107	10.6	1
10915	1234789-HpCDF	55673-89-7	0.250	JB	0.128	10.6	1
10915	OCDF	39001-02-0	1.90	JB	0.402	21.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	60	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	52	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	58	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	40	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB13-SA5DN-SS-060311 Water
SSFL Area IV Collocated Soil Sampling
EB13-SA5DN-SS-060311

LLI Sample # WW 6306874
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 13:30

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9819 SDG#: DX098-19EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161005	06/15/2011 02:40	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11161005	06/11/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306875
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9820 SDG#: DX098-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306875
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9820 SDG#: DX098-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0171 JQ	0.0130	1.13	1
11031	12378-PeCDD	40321-76-4	0.0278 JBQ	0.0138	5.63	1
11031	123478-HxCDD	39227-28-6	0.0347 JQ	0.0157	5.63	1
11031	123678-HxCDD	57653-85-7	0.0405 JBQ	0.0161	5.63	1
11031	123789-HxCDD	19408-74-3	0.0375 JB	0.0147	5.63	1
11031	1234678-HpCDD	35822-46-9	0.313 JB	0.0273	5.63	1
11031	OCDD	3268-87-9	1.11 JB	0.0316	11.3	1
11031	2378-TCDF	51207-31-9	0.0171 JQ	0.0107	1.13	1
11031	12378-PeCDF	57117-41-6	0.0279 JB	0.00661	5.63	1
11031	23478-PeCDF	57117-31-4	0.0636 JBQ	0.00673	5.63	1
11031	123478-HxCDF	70648-26-9	0.0308 JB	0.0132	5.63	1
11031	123678-HxCDF	57117-44-9	0.0341 JB	0.0110	5.63	1
11031	123789-HxCDF	72918-21-9	0.0436 JBQ	0.00998	5.63	1
11031	234678-HxCDF	60851-34-5	0.0196 JBQ	0.00824	5.63	1
11031	1234678-HpCDF	67562-39-4	0.0493 JBQ	0.0147	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0372 JB	0.0190	5.63	1
11031	OCDF	39001-02-0	0.126 JB	0.0340	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	92	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306875
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9820 SDG#: DX098-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-019-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306875
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 11:16

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9820 SDG#: DX098-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 19:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306876
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9821 SDG#: DX098-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306876
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9821 SDG#: DX098-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0365 JQ	0.0126	1.10	1
11031	12378-PeCDD	40321-76-4	0.0890 JBQ	0.0147	5.52	1
11031	123478-HxCDD	39227-28-6	0.0523 JBQ	0.0210	5.52	1
11031	123678-HxCDD	57653-85-7	0.103 JB	0.0216	5.52	1
11031	123789-HxCDD	19408-74-3	0.0784 JBQ	0.0214	5.52	1
11031	1234678-HpCDD	35822-46-9	1.30 JB	0.0565	5.52	1
11031	OCDD	3268-87-9	14.4 B	0.0342	11.0	1
11031	2378-TCDF	51207-31-9	0.0264 JBQ	0.0133	1.10	1
11031	12378-PeCDF	57117-41-6	0.0988 JBQ	0.00802	5.52	1
11031	23478-PeCDF	57117-31-4	0.0942 JB	0.00768	5.52	1
11031	123478-HxCDF	70648-26-9	0.0700 JBQ	0.0135	5.52	1
11031	123678-HxCDF	57117-44-9	0.0627 JB	0.0125	5.52	1
11031	123789-HxCDF	72918-21-9	0.0587 JBQ	0.0145	5.52	1
11031	234678-HxCDF	60851-34-5	0.0406 JB	0.0128	5.52	1
11031	1234678-HpCDF	67562-39-4	0.116 JBQ	0.0150	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0495 JBQ	0.0209	5.52	1
11031	OCDF	39001-02-0	0.255 JBQ	0.0422	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306876
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9821 SDG#: DX098-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306876
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9821 SDG#: DX098-21

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 18:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

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Analysis Report

Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306877
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9822 SDG#: DX098-22

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306877
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9822 SDG#: DX098-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0139	U	0.0139	1.09	1
11031	12378-PeCDD	40321-76-4	0.0507	JB	0.0178	5.47	1
11031	123478-HxCDD	39227-28-6	0.0265	J	0.0219	5.47	1
11031	123678-HxCDD	57653-85-7	0.218	JB	0.0225	5.47	1
11031	123789-HxCDD	19408-74-3	0.245	JB	0.0214	5.47	1
11031	1234678-HpCDD	35822-46-9	2.11	JB	0.0416	5.47	1
11031	OCDD	3268-87-9	53.8	B	0.0420	10.9	1
11031	2378-TCDF	51207-31-9	0.0219	U	0.0219	1.09	1
11031	12378-PeCDF	57117-41-6	0.0930	JB	0.00964	5.47	1
11031	23478-PeCDF	57117-31-4	0.0805	JB	0.00941	5.47	1
11031	123478-HxCDF	70648-26-9	0.0684	JBQ	0.0170	5.47	1
11031	123678-HxCDF	57117-44-9	0.0228	JBQ	0.0146	5.47	1
11031	123789-HxCDF	72918-21-9	0.317	JB	0.0170	5.47	1
11031	234678-HxCDF	60851-34-5	0.0310	JBQ	0.0148	5.47	1
11031	1234678-HpCDF	67562-39-4	0.169	JBQ	0.0125	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0356	JBQ	0.0188	5.47	1
11031	OCDF	39001-02-0	0.555	JB	0.0344	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306877
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9822 SDG#: DX098-22

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306877
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 14:50

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9822 SDG#: DX098-22

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 21:39	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306878
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9823 SDG#: DX098-23

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-027-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306878
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9823 SDG#: DX098-23

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0150 U	0.0150	1.11	1
11031	12378-PeCDD	40321-76-4	0.0148 U	0.0148	5.53	1
11031	123478-HxCDD	39227-28-6	0.0141 JQ	0.0120	5.53	1
11031	123678-HxCDD	57653-85-7	0.0125 U	0.0125	5.53	1
11031	123789-HxCDD	19408-74-3	0.0180 JB	0.0113	5.53	1
11031	1234678-HpCDD	35822-46-9	0.221 JBQ	0.0239	5.53	1
11031	OCDD	3268-87-9	0.839 JB	0.0293	11.1	1
11031	2378-TCDF	51207-31-9	0.0111 U	0.0111	1.11	1
11031	12378-PeCDF	57117-41-6	0.0110 JBQ	0.00709	5.53	1
11031	23478-PeCDF	57117-31-4	0.0306 JB	0.00709	5.53	1
11031	123478-HxCDF	70648-26-9	0.0157 U	0.0157	5.53	1
11031	123678-HxCDF	57117-44-9	0.0176 JBQ	0.0133	5.53	1
11031	123789-HxCDF	72918-21-9	0.0319 JBQ	0.00886	5.53	1
11031	234678-HxCDF	60851-34-5	0.00764 U	0.00764	5.53	1
11031	1234678-HpCDF	67562-39-4	0.0333 JB	0.0107	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0124 U	0.0124	5.53	1
11031	OCDF	39001-02-0	0.0963 JBQ	0.0289	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-027-SA5DN-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306878
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9823 SDG#: DX098-23

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-027-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA5DN-SB-14.0-15.0

LLI Sample # SW 6306878
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 15:00

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9823 SDG#: DX098-23

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 22:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162401B	06/23/2011 20:22	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306879
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9824 SDG#: DX098-24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306879
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9824 SDG#: DX098-24

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0162	U	0.0162	1.08	1
11031	12378-PeCDD	40321-76-4	0.0173	U	0.0173	5.38	1
11031	123478-HxCDD	39227-28-6	0.0192	U	0.0192	5.38	1
11031	123678-HxCDD	57653-85-7	0.179	JB	0.0203	5.38	1
11031	123789-HxCDD	19408-74-3	0.341	JB	0.0203	5.38	1
11031	1234678-HpCDD	35822-46-9	0.389	JBQ	0.0224	5.38	1
11031	OCDD	3268-87-9	1.22	JB	0.0295	10.8	1
11031	2378-TCDF	51207-31-9	0.0140	U	0.0140	1.08	1
11031	12378-PeCDF	57117-41-6	0.0415	JBQ	0.00770	5.38	1
11031	23478-PeCDF	57117-31-4	0.0303	JB	0.00759	5.38	1
11031	123478-HxCDF	70648-26-9	0.0127	JBQ	0.0125	5.38	1
11031	123678-HxCDF	57117-44-9	0.0164	JB	0.0109	5.38	1
11031	123789-HxCDF	72918-21-9	0.352	JB	0.0128	5.38	1
11031	234678-HxCDF	60851-34-5	0.0200	JBQ	0.0112	5.38	1
11031	1234678-HpCDF	67562-39-4	0.0188	JBQ	0.00759	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0117	U	0.0117	5.38	1
11031	OCDF	39001-02-0	0.0998	JBQ	0.0253	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306879
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9824 SDG#: DX098-24

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-4.0-5.0

LLI Sample # SW 6306879
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:04

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9824 SDG#: DX098-24

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/21/2011 23:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306880
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9825 SDG#: DX098-25*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306880
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9825 SDG#: DX098-25*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0186	U	0.0186	1.11	1
11031	12378-PeCDD	40321-76-4	0.0162	U	0.0162	5.53	1
11031	123478-HxCDD	39227-28-6	0.0149	U	0.0149	5.53	1
11031	123678-HxCDD	57653-85-7	0.0152	U	0.0152	5.53	1
11031	123789-HxCDD	19408-74-3	0.0370	JB	0.0140	5.53	1
11031	1234678-HpCDD	35822-46-9	0.350	JB	0.0268	5.53	1
11031	OCDD	3268-87-9	1.41	JB	0.0365	11.1	1
11031	2378-TCDF	51207-31-9	0.0150	U	0.0150	1.11	1
11031	12378-PeCDF	57117-41-6	0.00850	U	0.00850	5.53	1
11031	23478-PeCDF	57117-31-4	0.0304	JBQ	0.00838	5.53	1
11031	123478-HxCDF	70648-26-9	0.0129	JB	0.0103	5.53	1
11031	123678-HxCDF	57117-44-9	0.0102	JB	0.00884	5.53	1
11031	123789-HxCDF	72918-21-9	0.00941	U	0.00941	5.53	1
11031	234678-HxCDF	60851-34-5	0.00970	JBQ	0.00781	5.53	1
11031	1234678-HpCDF	67562-39-4	0.0238	JBQ	0.00861	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0175	JBQ	0.0121	5.53	1
11031	OCDF	39001-02-0	0.0833	JBQ	0.0255	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-052-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306880
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9825 SDG#: DX098-25*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5DN-SB-9.0-10.0

LLI Sample # SW 6306880
LLI Group # 1249958
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/03/2011 16:08

Submitted: 06/04/2011 09:15
Reported: 07/01/2011 10:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9825 SDG#: DX098-25*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11168002	06/22/2011 00:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11168002	06/17/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401A	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249958
Reported: 07/01/11 at 10:39 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11166162401A	Sample number(s): 6306858-6306870,6306872,6306879-6306880								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162401B	Sample number(s): 6306871,6306875-6306878								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11161005	Sample number(s): 6306873-6306874								
2378-TCDD	0.359 J	0.210	2.00	pg/l	94		67-158		
12378-PeCDD	0.608 J	0.242	10.0	pg/l	97		70-142		
123478-HxCDD	0.701 J	0.192	10.0	pg/l	99		70-164		
123678-HxCDD	0.697 J	0.201	10.0	pg/l	100		76-134		
123789-HxCDD	1.10 J	0.200	10.0	pg/l	99		64-162		
1234678-HpCDD	5.46 J	0.278	10.0	pg/l	104		70-140		
OCDD	13.0 J	0.297	20.0	pg/l	106		78-144		
2378-TCDF	0.193 U	0.193	2.00	pg/l	95		75-158		
12378-PeCDF	0.737 J	0.145	10.0	pg/l	99		80-134		
23478-PeCDF	0.940 J	0.137	10.0	pg/l	101		68-160		
123478-HxCDF	0.730 J	0.151	10.0	pg/l	101		72-134		
123678-HxCDF	0.764 J	0.151	10.0	pg/l	99		84-130		
123789-HxCDF	0.850 J	0.155	10.0	pg/l	97		78-130		
234678-HxCDF	0.683 J	0.147	10.0	pg/l	100		70-156		
1234678-HpCDF	1.68 J	0.104	10.0	pg/l	100		82-122		
1234789-HpCDF	1.16 J	0.128	10.0	pg/l	102		78-138		
OCDF	5.00 J	0.345	20.0	pg/l	103		63-170		
Batch number: 11168002	Sample number(s): 6306858-6306872,6306875,6306877-6306880								
2378-TCDD	0.0167 U	0.0167	1.00	ng/kg	86		67-158		
12378-PeCDD	0.0289 J	0.0179	5.00	ng/kg	92		70-142		
123478-HxCDD	0.0155 U	0.0155	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0449 J	0.0158	5.00	ng/kg	91		76-134		
123789-HxCDD	0.0269 J	0.0151	5.00	ng/kg	91		64-162		
1234678-HpCDD	0.354 J	0.0282	5.00	ng/kg	90		70-140		
OCDD	1.63 J	0.0393	10.0	ng/kg	93		78-144		
2378-TCDF	0.0147 U	0.0147	1.00	ng/kg	92		75-158		
2378-TCDF-Conf	0.101 J	0.0468	1.00	ng/kg					
12378-PeCDF	0.0201 J	0.00800	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0487 J	0.00800	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0253 J	0.00910	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0371 J	0.00820	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0358 J	0.0106	5.00	ng/kg	93		78-130		
234678-HxCDF	0.0289 J	0.00870	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0766 J	0.0105	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0537 J	0.0166	5.00	ng/kg	93		78-138		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249958
Reported: 07/01/11 at 10:39 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.178	J	0.0357	10.0	ng/kg	94		63-170		
Batch number: 11178001	Sample number(s): 6306876									
2378-TCDD	0.0123	U	0.0123	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0470	J	0.0141	5.00	ng/kg	88		70-142		
123478-HxCDD	0.0572	J	0.0262	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0570	J	0.0272	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0780	J	0.0258	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.357	J	0.0479	5.00	ng/kg	90		70-140		
OCDD	0.811	J	0.0393	10.0	ng/kg	90		78-144		
2378-TCDF	0.0118	J	0.0111	1.00	ng/kg	91		75-158		
12378-PeCDF	0.0379	J	0.00710	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0563	J	0.00650	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0465	J	0.0129	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0500	J	0.0114	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0771	J	0.0148	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0295	J	0.0119	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.113	J	0.0205	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0781	J	0.0276	5.00	ng/kg	90		78-138		
OCDF	0.234	J	0.0361	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11166162401A	Sample number(s): 6306858-6306870,6306872,6306879-6306880 BKG: P306836								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11174162401B	Sample number(s): 6306871,6306875-6306878 BKG: P305966								
Moisture Content by 160.3						12.2	11.7	5	20
Batch number: 11168002	Sample number(s): 6306858-6306872,6306875,6306877-6306880 UNSPK: 6306861								
2378-TCDD	83	85	67-158	2	25				
12378-PeCDD	89	90	70-142	0	25				
123478-HxCDD	89	91	70-164	1	25				
123678-HxCDD	89	89	76-134	0	25				
123789-HxCDD	90	89	64-162	1	25				
1234678-HpCDD	87	88	70-140	0	25				
OCDD	73*	74*	78-144	0	25				
2378-TCDF	90	90	75-158	0	25				
12378-PeCDF	90	95	80-134	5	25				
23478-PeCDF	91	90	68-160	1	25				
123478-HxCDF	92	92	72-134	1	25				
123678-HxCDF	93	92	84-130	1	25				
123789-HxCDF	91	93	78-130	1	25				
234678-HxCDF	91	91	70-156	0	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	91	91	78-138	0	25				
OCDF	92	93	63-170	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249958
Reported: 07/01/11 at 10:39 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11161005

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6306873	63	60	65	64	65	67
6306874	66	61	56	58	61	60
Blank	66	65	65	64	68	71
OPR	69	69	72	71	71	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6306873	60	56	46	83	60	63
6306874	52	48	40	91	63	60
Blank	59	57	46	84	65	64
OPR	63	60	48	85	70	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6306873	66	64	58	46	62	60
6306874	59	59	52	42	66	58
Blank	65	63	57	46	69	64
OPR	71	71	61	49	69	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11168002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6306858	69	66	69	74	71	69
6306859	59	57	58	63	61	66
6306860	63	62	65	68	66	72
6306861	68	65	68	71	70	70
6306862	65	64	67	69	68	74
6306863	64	64	67	71	69	73
6306864	76	75	74	79	77	86
6306865	66	64	65	69	66	72
6306866	63	60	61	65	63	69
6306867	60	59	60	64	62	68
6306868	62	60	62	65	64	70
6306869	69	67	53	57	68	76
6306870	63	60	61	64	62	69
6306871	69	65	65	66	69	79
6306872	67	65	65	69	68	74
6306875	76	74	52	59	79	79
6306877	70	66	65	74	71	71
6306878	62	59	32	36	64	66
6306879	62	61	65	71	67	68

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249958
Reported: 07/01/11 at 10:39 AM

Surrogate Quality Control

6306880	61	61	53	59	68	69
Blank	58	57	62	67	64	62
MS	65	64	67	69	68	74
MSD	64	64	67	71	69	73
OPR	62	63	65	70	67	69

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6306858	80	67	64	82	71	76
6306859	71	58	54	70	62	65
6306860	77	61	57	76	66	69
6306861	76	67	62	78	69	75
6306862	78	66	63	74	69	73
6306863	79	65	60	75	68	74
6306864	90	75	71	89	80	82
6306865	76	63	59	80	68	69
6306866	72	60	57	77	65	68
6306867	71	59	56	74	64	68
6306868	73	63	60	76	64	68
6306869	64	68	66	79	70	70
6306870	70	61	57	73	64	66
6306871	69	70	67	79	67	70
6306872	75	65	61	76	69	71
6306875	77	70	62	92	81	85
6306877	81	65	58	79	71	76
6306878	53	56	49	76	64	69
6306879	79	62	56	74	67	71
6306880	72	61	55	76	65	72
Blank	76	60	55	80	62	70
MS	78	66	63	74	69	73
MSD	79	65	60	75	68	74
OPR	81	63	57	84	69	73

Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6306858	74	77	74	73	64	67
6306859	64	65	68	64	53	59
6306860	69	71	71	67	57	64
6306861	71	74	72	71	62	66
6306862	70	72	74	72	59	67
6306863	73	75	73	69	59	59
6306864	80	83	84	82	69	77
6306865	69	71	71	68	61	67
6306866	65	67	69	66	57	63
6306867	64	67	67	65	55	61
6306868	67	68	70	68	55	63
6306869	68	70	73	72	65	68
6306870	63	66	68	64	58	62
6306871	69	71	72	70	66	66
6306872	69	71	72	69	62	68
6306875	82	87	86	79	69	80
6306877	75	78	76	72	64	71

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249958
Reported: 07/01/11 at 10:39 AM

Surrogate Quality Control

6306878	67	71	70	63	55	64
6306879	71	71	72	66	56	64
6306880	70	72	71	66	55	63
Blank	68	70	70	66	51	59
MS	70	72	74	72	59	67
MSD	73	75	73	69	59	59
OPR	70	73	74	69	56	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

	13C12-2378-TCDF-Conf
6306858	
6306859	
6306860	
6306861	
6306862	
6306863	
6306864	
6306865	
6306866	
6306867	
6306868	
6306869	
6306870	
6306871	66
6306872	
6306875	
6306877	
6306878	
6306879	
6306880	
Blank	53
MS	
MSD	
OPR	
Limits:	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11178001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6306876	69	66	71	73	72	73
Blank	76	72	75	81	78	77
OPR	66	65	70	76	72	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6306876	79	69	65	83	72	77
Blank	86	76	73	91	78	85
OPR	86	69	66	85	73	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1249958
Reported: 07/01/11 at 10:39 AM

Surrogate Quality Control

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6306876	77	77	78	74	61	67
Blank	82	85	86	82	68	72
OPR	79	82	84	81	57	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1249958 Sample#63066858-80

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015M	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-SS sleeve			X	X																	
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-SS sleeve			X	X																	
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-SS sleeve			X	X																	
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-SS sleeve			X	X																	
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-SS sleeve			X	X																	
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-SS sleeve			X	X																	
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-SS sleeve			X	X																	
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	1-SS sleeve			X	X																	
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/03/2011 / 1700	6/4/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132	

acct#13013 Cap#1249958 Sample#6306858-80

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									SS ONLY		
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	5-1 liter ambers			X	X	X							
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HNO3	1-500 mL poly	X											
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	1-500 mL poly		X				X	X	X	X	X	X	
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HCl	6-40 mL vials												
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	7-1 liter ambers			X	X	X					X	X	
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	HNO3	1-500 mL poly	X											
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	1-500 mL poly		X				X	X	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/03/2011 / 1700	6/4/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 [redacted]	

acct# 13013 Cp# 1249958 Sample# 6306858-80

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-019-SA5DN-SB-4.5	6/3/11	1111	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-4.0-5.0	6/3/11	1116	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-019-SA5DN-SB-9.5	6/3/11	1123	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-9.0-10	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-4.5	6/3/11	1445	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-4.0-5.0	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-14.5	6/3/11	1455	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-14.0-15.0	6/3/11	1500	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-052-SA5DN-SB-4.5	6/3/11	1600	SOIL	NONE	4-Encores										X	X											
SL-052-SA5DN-SB-4.0-5.0	6/3/11	1604	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-052-SA5DN-SB-9.0-10.0	6/3/11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-060311	6/3/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 06/3/2011 / 1700		Received for Laboratory by: (Signature) 6/4/11 0915																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 8754 3339 9143																								

Natalie R. Luciano

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Monday, June 06, 2011 5:33 PM
To: Natalie R. Luciano
Cc: Nicole Maljovec
Subject: RE: SSFL COC dated 6/3/2011
Follow Up Flag: Follow up
Flag Status: Red
Attachments: COC 06 03 11.xlsx

Hi Ladies – my apologies for really making a mess of this COC – I must have been trying to nap while putting it together!

I have revised the COC for equipment blank EB14 and in answer to your questions, Natalie, the 40-mL vials should be analyzed for VOCs and 1,4-dioxane only and EB14 should NOT be analyzed for pesticides, herbicides or for perchlorate by method 6850.

And thanks for catching the other error on sample SL-114-SA5DN-SS-0.0-0.5.

Peggy

From: Natalie R. Luciano [mailto:NLuciano@lancasterlabs.com]
Sent: Monday, June 06, 2011 2:09 PM
To: Bloisa, Peggy
Cc: Nicole Maljovec
Subject: FW: SSFL COC dated 6/3/2011

Hello Peggy,

I have some questions related to the attached COC.

EB14-SA5DN-SB-060311

- We received 6-40ml vials as per the COC, but VOCs, 1,4-Dioxane, and TPH-GRO were not requested. Please confirm whether these analyses are needed on EB14.
- The COC is checked for analysis of Pesticides and Herbicides, but we did not receive any extra amber liters for these. Since EB14 is associated with the SB samples, it seems that it would not be analyzed for Pesticides and Herbicides. Please confirm the analyses.
- EB14 is marked for Perchlorate confirmation via method 6850, is this correct?

In regards to a different COC, for sample SL-114-SA5DN-SS-0.0-0.5 (collected 5/31/11 at 15:10) we received 2-16 oz jars and 1-SS sleeve. The COC lists 2-16 oz jars and 1-16 oz jar. I have revised the COC accordingly.

Thank you,
Natalie
Environmental Client Services

Please consider the environment before printing this e-mail.

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Monday, June 06, 2011 4:14 PM

To: Natalie R. Luciano
Subject: SSFL COC dated 6/3/2011

Is attached. Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

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CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

						PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8247/1A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										Amended COC
SL-152-SA5DN-SS-0.0-0.5	6/3/11	1145	SOIL	NONE	1-SS sleeve			X	X																	
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-153-SA5DN-SS-0.0-0.5	6/3/11	1210	SOIL	NONE	1-SS sleeve			X	X																	
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-154-SA5DN-SS-0.0-0.5	6/3/11	1120	SOIL	NONE	1-SS sleeve			X	X																	
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X										MS/MSD sample
SL-155-SA5DN-SS-0.0-0.5MS	6/3/11	1045	SOIL	NONE	2-SS sleeves			X	X																	MS/MSD sample
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-156-SA5DN-SS-0.0-0.5	6/3/11	0945	SOIL	NONE	1-SS sleeve			X	X																	
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-157-SA5DN-SS-0.0-0.5	6/3/11	1005	SOIL	NONE	1-SS sleeve			X	X																	
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-158-SA5DN-SS-0.0-0.5	6/3/11	1025	SOIL	NONE	1-SS sleeve			X	X																	
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-159-SA5DN-SS-0.0-0.5	6/3/11	0925	SOIL	NONE	1-SS sleeve			X	X																	
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-160-SA5DN-SS-0.0-0.5	6/3/11	1500	SOIL	NONE	1-SS sleeve			X	X																	
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-162-SA5DN-SS-0.0-0.5	6/3/11	1425	SOIL	NONE	1-SS sleeve			X	X																	
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
SL-166-SA5DN-SS-0.0-0.5	6/3/11	1525	SOIL	NONE	1-SS sleeve			X	X																	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
SL-207-SA5DN-SS-0.0-0.5	6/3/11	0835	SOIL	NONE	1-SS sleeve			X	X																	
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-16 oz jar	X	X	X	X	X	X	X	X		X	X										
DUP-13-SA5DN-QC-060311	6/3/11	1055	SOIL	NONE	1-SS sleeve			X	X																	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/03/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 8754 3339 9143	

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

						PRIMARY FOR ALL LOCATIONS								SS ONLY		VOCs			
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	5-1 liter ambers			X	X	X									Amended COC
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HNO3	1-500 mL poly	X													
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	NONE	1-500 mL poly		X				X	X	X						
EB14-SA5DN-SB-060311	6/3/11	1245	WATER	HCl	6-40 mL vials											X	X		
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	7-1 liter ambers			X	X	X				X	X				
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	HNO3	1-500 mL poly	X													
EB13-SA5DN-SS-060311	6/3/11	1330	WATER	NONE	1-500 mL poly		X				X	X	X						

Relinquished by: (*Signature*)	**Date/Time** 06/03/2011 / 1700	**Received for Laboratory by: (*Signature*)**	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 8754 3339 9143	

CHAIN OF CUSTODY RECORD

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Samplers
Signatures:

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Amended COC
SL-019-SA5DN-SB-4.5	6/3/11	1111	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-4.0-5.0	6/3/11	1116	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-019-SA5DN-SB-9.5	6/3/11	1123	SOIL	NONE	5-Encores										X	X	X										
SL-019-SA5DN-SB-9.0-10	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-4.5	6/3/11	1445	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-4.0-5.0	6/3/11	1450	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-027-SA5DN-SB-14.5	6/3/11	1455	SOIL	NONE	5-Encores										X	X	X										
SL-027-SA5DN-SB-14.0-15.0	6/3/11	1500	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-052-SA5DN-SB-4.5	6/3/11	1600	SOIL	NONE	4-Encores										X	X											
SL-052-SA5DN-SB-4.0-5.0	6/3/11	1604	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
SL-052-SA5DN-SB-9.0-10.0	6/3/11	1608	SOIL	NONE	2-16 oz jars	X	X	X	X	X	X	X	X														
TB-060311	6/3/11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	**Date/Time** 06/3/2011 / 1700	**Received for Laboratory by:** (*Signature*)	**Laboratory:** Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)** 8754 3339 9100; 8754 3339 9110 8754 3339 9121; 8754 3339 9132 8754 3339 9143	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/07/2011
Group Number: 1250151
SDG: DX099
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA5DN-SB-4.0-5.0 Soil	6308048
SL-022-SA5DN-SB-15.0-16.0 Soil	6308049
SL-053-SA5DN-SB-4.0-5.0 Soil	6308050
SL-053-SA5DN-SB-11.5-12.5 Soil	6308051
SL-079-SA8N-SB-4.0-5.0 Soil	6308052
SL-079-SA8N-SB-9.0-10.0 Soil	6308053
SL-133-SA8N-SB-4.0-5.0 Soil	6308054

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0169	U	0.0169	1.12	1
11031	12378-PeCDD	40321-76-4	0.0754	JQ	0.0178	5.60	1
11031	123478-HxCDD	39227-28-6	0.0595	JQ	0.0213	5.60	1
11031	123678-HxCDD	57653-85-7	0.106	JB	0.0210	5.60	1
11031	123789-HxCDD	19408-74-3	0.172	JB	0.0201	5.60	1
11031	1234678-HpCDD	35822-46-9	0.721	JB	0.0428	5.60	1
11031	OCDD	3268-87-9	4.47	JB	0.0259	11.2	1
11031	2378-TCDF	51207-31-9	0.0130	U	0.0130	1.12	1
11031	12378-PeCDF	57117-41-6	0.0564	JBQ	0.00731	5.60	1
11031	23478-PeCDF	57117-31-4	0.0766	JBQ	0.00696	5.60	1
11031	123478-HxCDF	70648-26-9	0.0439	JB	0.0121	5.60	1
11031	123678-HxCDF	57117-44-9	0.0572	JB	0.0110	5.60	1
11031	123789-HxCDF	72918-21-9	0.145	JBQ	0.0137	5.60	1
11031	234678-HxCDF	60851-34-5	0.0427	JBQ	0.0114	5.60	1
11031	1234678-HpCDF	67562-39-4	0.0762	JB	0.0128	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0596	JBQ	0.0197	5.60	1
11031	OCDF	39001-02-0	0.176	JBQ	0.0372	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-022-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308048
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:40

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22405 SDG#: DX099-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 06:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0259	JQ	0.0189	1.07	1
11031	12378-PeCDD	40321-76-4	0.0982	JQ	0.0177	5.33	1
11031	123478-HxCDD	39227-28-6	0.121	JQ	0.0175	5.33	1
11031	123678-HxCDD	57653-85-7	0.113	JB	0.0187	5.33	1
11031	123789-HxCDD	19408-74-3	0.154	JB	0.0176	5.33	1
11031	1234678-HpCDD	35822-46-9	0.590	JBQ	0.0329	5.33	1
11031	OCDD	3268-87-9	1.99	JB	0.0287	10.7	1
11031	2378-TCDF	51207-31-9	0.0265	J	0.0131	1.07	1
11031	12378-PeCDF	57117-41-6	0.103	JB	0.00812	5.33	1
11031	23478-PeCDF	57117-31-4	0.137	JB	0.00747	5.33	1
11031	123478-HxCDF	70648-26-9	0.140	JBQ	0.0148	5.33	1
11031	123678-HxCDF	57117-44-9	0.120	JBQ	0.0135	5.33	1
11031	123789-HxCDF	72918-21-9	0.135	JB	0.0150	5.33	1
11031	234678-HxCDF	60851-34-5	0.131	JB	0.0147	5.33	1
11031	1234678-HpCDF	67562-39-4	0.170	JB	0.0115	5.33	1
11031	1234789-HpCDF	55673-89-7	0.149	JBQ	0.0167	5.33	1
11031	OCDF	39001-02-0	0.329	JB	0.0339	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-022-SA5DN-SB-15.0-16.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-022-SA5DN-SB-15.0-16.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DN-SB-15.0-16.0

LLI Sample # SW 6308049
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

22150 SDG#: DX099-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 07:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0177 U	0.0177	1.15	1
11031	12378-PeCDD	40321-76-4	0.0160 U	0.0160	5.77	1
11031	123478-HxCDD	39227-28-6	0.0165 U	0.0165	5.77	1
11031	123678-HxCDD	57653-85-7	0.0738 JBQ	0.0167	5.77	1
11031	123789-HxCDD	19408-74-3	0.104 JBQ	0.0155	5.77	1
11031	1234678-HpCDD	35822-46-9	0.689 JB	0.0374	5.77	1
11031	OCDD	3268-87-9	4.65 JB	0.0278	11.5	1
11031	2378-TCDF	51207-31-9	0.0132 U	0.0132	1.15	1
11031	12378-PeCDF	57117-41-6	0.0170 JB	0.00773	5.77	1
11031	23478-PeCDF	57117-31-4	0.0319 JBQ	0.00761	5.77	1
11031	123478-HxCDF	70648-26-9	0.0117 JBQ	0.00867	5.77	1
11031	123678-HxCDF	57117-44-9	0.0219 JBQ	0.00796	5.77	1
11031	123789-HxCDF	72918-21-9	0.113 JBQ	0.00913	5.77	1
11031	234678-HxCDF	60851-34-5	0.0129 JBQ	0.00796	5.77	1
11031	1234678-HpCDF	67562-39-4	0.0476 JBQ	0.00937	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0232 JBQ	0.0137	5.77	1
11031	OCDF	39001-02-0	0.127 JB	0.0326	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-4.0-5.0

LLI Sample # SW 6308050
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 15:50

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53405 SDG#: DX099-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 08:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0185 U	0.0185	1.08	1
11031	12378-PeCDD	40321-76-4	0.0176 JQ	0.0146	5.42	1
11031	123478-HxCDD	39227-28-6	0.0147 U	0.0147	5.42	1
11031	123678-HxCDD	57653-85-7	0.0402 JBQ	0.0150	5.42	1
11031	123789-HxCDD	19408-74-3	0.0651 JBQ	0.0133	5.42	1
11031	1234678-HpCDD	35822-46-9	0.492 JB	0.0275	5.42	1
11031	OCDD	3268-87-9	1.55 JB	0.0297	10.8	1
11031	2378-TCDF	51207-31-9	0.0100 U	0.0100	1.08	1
11031	12378-PeCDF	57117-41-6	0.0291 JBQ	0.00625	5.42	1
11031	23478-PeCDF	57117-31-4	0.0665 JB	0.00603	5.42	1
11031	123478-HxCDF	70648-26-9	0.0417 JBQ	0.00759	5.42	1
11031	123678-HxCDF	57117-44-9	0.0284 JB	0.00670	5.42	1
11031	123789-HxCDF	72918-21-9	0.0405 JB	0.00770	5.42	1
11031	234678-HxCDF	60851-34-5	0.0233 JB	0.00658	5.42	1
11031	1234678-HpCDF	67562-39-4	0.0476 JB	0.00759	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0238 JBQ	0.0116	5.42	1
11031	OCDF	39001-02-0	0.127 JB	0.0276	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-053-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5DN-SB-11.5-12.5

LLI Sample # SW 6308051
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:00

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

53115 SDG#: DX099-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 09:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0224 U	0.0224	1.14	1
11031	12378-PeCDD	40321-76-4	0.0348 JQ	0.0148	5.69	1
11031	123478-HxCDD	39227-28-6	0.0155 JQ	0.0154	5.69	1
11031	123678-HxCDD	57653-85-7	0.0345 JBQ	0.0161	5.69	1
11031	123789-HxCDD	19408-74-3	0.0437 JBQ	0.0153	5.69	1
11031	1234678-HpCDD	35822-46-9	0.559 JBQ	0.0292	5.69	1
11031	OCDD	3268-87-9	1.14 JB	0.0323	11.4	1
11031	2378-TCDF	51207-31-9	0.0130 U	0.0130	1.14	1
11031	12378-PeCDF	57117-41-6	0.0211 JBQ	0.00815	5.69	1
11031	23478-PeCDF	57117-31-4	0.0498 JB	0.00758	5.69	1
11031	123478-HxCDF	70648-26-9	0.0150 JBQ	0.00838	5.69	1
11031	123678-HxCDF	57117-44-9	0.0203 JBQ	0.00781	5.69	1
11031	123789-HxCDF	72918-21-9	0.0221 JBQ	0.00896	5.69	1
11031	234678-HxCDF	60851-34-5	0.0121 JBQ	0.00804	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0435 JB	0.00987	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0140 JBQ	0.0139	5.69	1
11031	OCDF	39001-02-0	0.0709 JB	0.0299	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-4.0-5.0

LLI Sample # SW 6308052
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 12:05

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79405 SDG#: DX099-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 10:07	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0437	JQ	0.0214	1.16	1
11031	12378-PeCDD	40321-76-4	0.202	J	0.0188	5.80	1
11031	123478-HxCDD	39227-28-6	0.0872	J	0.0177	5.80	1
11031	123678-HxCDD	57653-85-7	0.111	JB	0.0185	5.80	1
11031	123789-HxCDD	19408-74-3	0.128	JB	0.0182	5.80	1
11031	1234678-HpCDD	35822-46-9	0.758	JBQ	0.0293	5.80	1
11031	OCDD	3268-87-9	3.23	JB	0.0281	11.6	1
11031	2378-TCDF	51207-31-9	0.0841	JQ	0.0141	1.16	1
11031	12378-PeCDF	57117-41-6	0.250	JB	0.00962	5.80	1
11031	23478-PeCDF	57117-31-4	0.237	JBQ	0.00927	5.80	1
11031	123478-HxCDF	70648-26-9	0.167	JB	0.0144	5.80	1
11031	123678-HxCDF	57117-44-9	0.139	JB	0.0136	5.80	1
11031	123789-HxCDF	72918-21-9	0.107	JB	0.0140	5.80	1
11031	234678-HxCDF	60851-34-5	0.0910	JB	0.0131	5.80	1
11031	1234678-HpCDF	67562-39-4	0.122	JB	0.00904	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0482	JB	0.0133	5.80	1
11031	OCDF	39001-02-0	0.203	JB	0.0203	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-079-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA8N-SB-9.0-10.0

LLI Sample # SW 6308053
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 11:55

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

79910 SDG#: DX099-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 11:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0477	J	0.0190	1.15	1
11031	12378-PeCDD	40321-76-4	0.280	JQ	0.0184	5.74	1
11031	123478-HxCDD	39227-28-6	0.164	J	0.0190	5.74	1
11031	123678-HxCDD	57653-85-7	0.152	JB	0.0199	5.74	1
11031	123789-HxCDD	19408-74-3	0.165	JB	0.0193	5.74	1
11031	1234678-HpCDD	35822-46-9	1.07	JB	0.0298	5.74	1
11031	OCDD	3268-87-9	13.7	B	0.0277	11.5	1
11031	2378-TCDF	51207-31-9	0.0914	J	0.0289	1.15	1
11031	12378-PeCDF	57117-41-6	0.338	JB	0.0112	5.74	1
11031	23478-PeCDF	57117-31-4	0.279	JBQ	0.0106	5.74	1
11031	123478-HxCDF	70648-26-9	0.227	JB	0.0206	5.74	1
11031	123678-HxCDF	57117-44-9	0.219	JB	0.0188	5.74	1
11031	123789-HxCDF	72918-21-9	0.167	JB	0.0199	5.74	1
11031	234678-HxCDF	60851-34-5	0.137	JBQ	0.0188	5.74	1
11031	1234678-HpCDF	67562-39-4	0.360	JB	0.0135	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0787	JBQ	0.0206	5.74	1
11031	OCDF	39001-02-0	0.570	JB	0.0286	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-4.0-5.0

LLI Sample # SW 6308054
LLI Group # 1250151
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 16:15

Submitted: 06/07/2011 10:15
Reported: 06/24/2011 23:45

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

13330 SDG#: DX099-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 12:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250151
Reported: 06/24/11 at 11:45 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11165162401B	Sample number(s): 6308050-6308051								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162402A	Sample number(s): 6308048-6308049,6308052-6308054								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11169001	Sample number(s): 6308048-6308054								
2378-TCDD	0.0186 U	0.0186	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0176 U	0.0176	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0267 U	0.0267	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0621 J	0.0282	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0839 J	0.0266	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.479 J	0.0498	5.00	ng/kg	90		70-140		
OCDD	1.04 J	0.0434	10.0	ng/kg	92		78-144		
2378-TCDF	0.0135 U	0.0135	1.00	ng/kg	90		75-158		
12378-PeCDF	0.0277 J	0.00790	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0481 J	0.00740	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0392 J	0.0142	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0252 J	0.0128	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0457 J	0.0144	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0179 J	0.0126	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0762 J	0.0192	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0506 J	0.0260	5.00	ng/kg	92		78-138		
OCDF	0.246 J	0.0420	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11165162401B	Sample number(s): 6308050-6308051 BKG: P312177								
Moisture Content by 160.3						12.5	12.4	1	20
Batch number: 11174162402A	Sample number(s): 6308048-6308049,6308052-6308054 BKG: P309733								
Moisture Content by 160.3						12.2	12.2	1	20
Batch number: 11169001	Sample number(s): 6308048-6308054 UNSPK: P309771								
2378-TCDD	83	84	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250151
Reported: 06/24/11 at 11:45 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	89	90	70-142	1	25				
123478-HxCDD	91	90	70-164	0	25				
123678-HxCDD	88	90	76-134	3	25				
123789-HxCDD	89	89	64-162	0	25				
1234678-HpCDD	88	89	70-140	1	25				
OCDD	89	86	78-144	4	25				
2378-TCDF	88	87	75-158	1	25				
12378-PeCDF	88	89	80-134	2	25				
23478-PeCDF	87	89	68-160	2	25				
123478-HxCDF	91	90	72-134	0	25				
123678-HxCDF	89	90	84-130	1	25				
123789-HxCDF	90	93	78-130	3	25				
234678-HxCDF	91	92	70-156	1	25				
1234678-HpCDF	88	89	82-122	1	25				
1234789-HpCDF	90	90	78-138	0	25				
OCDF	91	91	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11169001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6308048	67	69	72	78	75	76
6308049	59	66	73	77	75	81
6308050	70	72	72	77	77	78
6308051	66	69	68	74	76	78
6308052	62	66	70	75	73	75
6308053	76	77	82	86	85	91
6308054	66	70	76	82	79	86
Blank	66	70	74	79	78	78
MS	60	65	64	67	71	74
MSD	65	69	71	77	75	80
OPR	64	68	70	77	76	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6308048	89	69	63	82	71	78
6308049	90	72	67	83	68	77
6308050	86	71	64	87	75	80
6308051	88	68	58	86	72	78
6308052	81	69	60	80	68	75
6308053	97	82	74	99	80	87
6308054	93	75	66	88	73	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250151
Reported: 06/24/11 at 11:45 PM

Surrogate Quality Control

Blank	88	76	71	91	72	81
MS	78	69	65	81	67	73
MSD	87	73	68	85	73	79
OPR	91	71	66	84	72	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6308048	76	79	81	77	63	72
6308049	76	78	81	78	56	65
6308050	78	82	80	75	66	74
6308051	76	82	79	71	63	72
6308052	73	76	78	68	59	65
6308053	86	87	92	85	72	78
6308054	80	81	83	77	62	71
Blank	79	82	83	81	62	70
MS	72	75	76	74	55	65
MSD	77	81	84	78	61	71
OPR	78	81	83	80	59	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Work# 13013 LL# 430808-54 GR# 1250151

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: 6-6-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-022-SA5DN-SB-4.5	06.06.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA5DN-SB-4.0-5.0	06.06.11	1140	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-022-SA5DN-SB-15.5	06.06.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-022-SA5DN-SB-15.0-16.0	06.06.11	1150	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-053-SA5DN-SB-4.5	06.06.11	1545	SOIL	NONE	4-Encores										X	X											
SL-053-SA5DN-SB-4.0-5.0	06.06.11	1550	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-053-SA5DN-SB-11.5-12.5	06.06.11	1600	SOIL	NONE	2-16 oz. jars	X	X	X	X	X	X	X	X														
SL-079-SA8N-SB-4.5	06.06.11	1200	SOIL	NONE	5-Encores										X	X	X										
SL-079-SA8N-SB-4.0-5.0	06.06.11	1205	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-079-SA8N-SB-9.5	06.06.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-079-SA8N-SB-9.0-10.0	06.06.11	1155	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-133-SA8N-SB-4.5	06.06.11	1615	SOIL	NONE	4-Encores										X	X	X										
SL-133-SA8N-SB-4.0-5.0	06.06.11	1615	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-060611	06.06.11	1430	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/06/2011 / 1700	6/7/11 1015	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9142, 9154	

→ SL-133-SA8N-SB-4.5 and SL-133-SA8N-SB-4.0-5.0 per bottle labels Confirmed by PH. NLM 6/8/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/08/2011
Group Number: 1250458
SDG: DE175
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5DN-SB-4.0-5.0 Soil	6309733
SL-024-SA5DN-SB-4.0-5.0MS Soil	6309734
SL-024-SA5DN-SB-4.0-5.0MSD Soil	6309735
SL-024-SA5DN-SB-4.0-5.0DUP Soil	6309736
SL-024-SA5DN-SB-19.0-20.0 Soil	6309737
SL-026-SA5DN-SB-4.0-5.0 Soil	6309738
SL-026-SA5DN-SB-17.0-18.0 Soil	6309739
SL-036-SA5DN-SB-4.0-5.0 Soil	6309740
SL-036-SA5DN-SB-9.0-10.0 Soil	6309741
DUP13-SA5DN-QC-060711 Soil	6309742
SL-071-SA8N-SB-2.0-3.0 Soil	6309743
SL-122-SA8N-SB-2.0-3.0 Soil	6309744
SL-140-SA8N-SB-3.0-4.0 Soil	6309745
SL-133-SA8N-SB-7.0-8.0 Soil	6309746
TB-060711 Water	6309747
EB15-SA5DN-SB-060711 Water	6309748

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

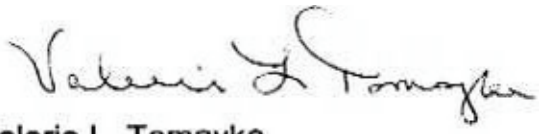
Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	1.7	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.20	J	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.9	U	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.68	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

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17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,300		5.62	22.3		1
07914	Boron	7440-42-8	12.7		0.402	5.58		1
01650	Calcium	7440-70-2	13,800		6.84	22.3		1
01654	Iron	7439-89-6	34,600		26.3	112		5
01656	Lithium	7439-93-2	24.8		0.25	2.2		1
01657	Magnesium	7439-95-4	7,490		2.84	11.2		1
06958	Manganese	7439-96-5	365		0.0871	0.558		1
10145	Phosphorus	7723-14-0	357		0.625	11.2		1
01662	Potassium	7440-09-7	3,130		20.1	55.8		1
01667	Sodium	7440-23-5	438		41.6	112		1
07968	Strontium	7440-24-6	45.3		0.0692	0.558		1
06969	Tin	7440-31-5	2.60	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,410		0.0793	1.12		1
10146	Zirconium	7440-67-7	3.58	J	0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.255		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.61		0.0902	0.451		2
06126	Barium	7440-39-3	201		0.122	0.451		2
06127	Beryllium	7440-41-7	0.987		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.429		0.0451	0.113		2
06131	Chromium	7440-47-3	34.4		0.135	0.451		2
06132	Cobalt	7440-48-4	16.7		0.0226	0.113		2
06133	Copper	7440-50-8	19.5		0.0744	0.451		2
06135	Lead	7439-92-1	13.5		0.0117	0.226		2
06138	Molybdenum	7439-98-7	0.361		0.0564	0.113		2
06139	Nickel	7440-02-0	35.0		0.113	0.451		2
06141	Selenium	7782-49-2	0.119	J	0.0451	0.451		2
06142	Silver	7440-22-4	0.0547	J	0.0135	0.113		2
06145	Thallium	7440-28-0	0.424		0.0338	0.113		2
06148	Vanadium	7440-62-2	56.6		0.0248	0.113		2
06149	Zinc	7440-66-6	86.6		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0048	J	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	15.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.91	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

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17501 SDG#: DE175-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 14:19	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 17:11	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:08	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 13:39	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 05:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 10:57	Joseph M Gambler	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 11:58	Elizabeth J Marin	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:08	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 05:49	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:01	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 08:54	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 17:09	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 20:52	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:33	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 22:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:32	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 08:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2

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Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309733
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 10:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 10:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 11:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 15:30	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	6.9	8.2		0.9
06192	Benzene	71-43-2	24	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	22	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	23	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	22	0.08	4.1		0.9
06192	Bromoform	75-25-2	20	0.41	4.1		0.9
06192	Bromomethane	74-83-9	19	0.26	4.1		0.9
06192	2-Butanone	78-93-3	160	1.2	8.2		0.9
06192	n-Butylbenzene	104-51-8	23	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	24	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	23	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	25	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	23	0.11	4.1		0.9
06192	Chloroethane	75-00-3	17	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.31	4.1		0.9
06192	Chloroform	67-66-3	24	0.12	4.1		0.9
06192	Chloromethane	74-87-3	22	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	22	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	23	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	17	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	22	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	21	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	21	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	21	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	22	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	22	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	22	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	21	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	24	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	24	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	25	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	23	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	23	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	22	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	25	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	24	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	21	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	23	0.06	4.1		0.9
06192	Freon 113	76-13-1	26	0.11	4.1		0.9
06192	Freon 133a	75-88-7	21	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	20	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	110	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	24	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	23	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	22	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	110	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	25	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	24	0.07	4.1		0.9

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	22		0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	23		0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	21		0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	24		0.21	4.1		0.9
06192	Toluene	108-88-3	23		0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	18		0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	18		0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	23		0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	21		0.28	4.1		0.9
06192	Trichloroethene	79-01-6	23		0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	24		0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	21		0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	23		0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	24		0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	21		0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	48		0.17	4.1		0.9
06192	o-Xylene	95-47-6	23		0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120		4.6	14		20
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	854		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,300		19	190		1
04688	Acenaphthylene	208-96-8	1,400		19	190		1
04688	Aniline	62-53-3	890		190	570		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	1,800	J	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,300		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,500		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	1,000		190	570		1
04688	Benzyl alcohol	100-51-6	1,400		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,500		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,300		19	190		1
04688	Carbazole	86-74-8	1,300		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		38	190		1
04688	4-Chloroaniline	106-47-8	900		76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,200		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,200		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,200		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200		19	190		1
04688	2-Chlorophenol	95-57-8	1,400		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		38	190		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

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Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,300		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		19	190		1
04688	Dibenzofuran	132-64-9	1,300		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,000		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	980		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	980		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	930		110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,400		19	190		1
04688	Diethylphthalate	84-66-2	1,300		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,300		38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900		38	190		1
04688	Dimethylphthalate	131-11-3	1,300		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,300		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,300		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,400		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,400		19	380		1
04688	Fluoranthene	206-44-0	1,300		19	190		1
04688	Fluorene	86-73-7	1,400		19	190		1
04688	Hexachlorobenzene	118-74-1	1,300		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,100		76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	990		190	570		1
04688	Hexachloroethane	67-72-1	920		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		19	190		1
04688	Isophorone	78-59-1	1,300		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,300		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,200		19	190		1
04688	2-Methylphenol	95-48-7	1,300		38	190		1
04688	4-Methylphenol	106-44-5	1,200		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,200		19	190		1
04688	2-Nitroaniline	88-74-4	1,500		19	190		1
04688	3-Nitroaniline	99-09-2	1,400		38	190		1
04688	4-Nitroaniline	100-01-6	1,100		76	190		1
04688	Nitrobenzene	98-95-3	1,300		19	190		1
04688	2-Nitrophenol	88-75-5	1,000		19	190		1
04688	4-Nitrophenol	100-02-7	1,100		190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,300		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,300		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		19	190		1
04688	Pentachlorophenol	87-86-5	1,000		190	570		1
04688	Phenanthrene	85-01-8	1,300		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,400		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,200		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	28		0.75	1.9		1
10138	Acenaphthylene	208-96-8	26		0.38	1.9		1
10138	Anthracene	120-12-7	29		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	32		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	33		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	33		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	24		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	34		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	36		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	34		6.8	20		1
10138	Chrysene	218-01-9	31		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	28		0.75	1.9		1
10138	Diethylphthalate	84-66-2	29		6.8	20		1
10138	Dimethylphthalate	131-11-3	29		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33		6.8	20		1
10138	Fluoranthene	206-44-0	30		0.75	1.9		1
10138	Fluorene	86-73-7	28		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	27		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	30		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	27		0.75	1.9		1
10138	Naphthalene	91-20-3	27		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	35		6.8	20		1
10138	Phenanthrene	85-01-8	28		0.75	1.9		1
10138	Pyrene	129-00-0	27		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.2		0.2	1.0		22.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		68	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,500		46	140		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	HMX	2691-41-0	2,000		110	340		1
10132	Nitrobenzene	98-95-3	2,500		46	140		1
10132	Nitroglycerin	55-63-0	50,000		910	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		91	140		1
10132	3-Nitrotoluene	99-08-1	2,500		110	140		1
10132	4-Nitrotoluene	99-99-0	2,300		91	140		1
10132	PETN	78-11-5	64,000		910	2,700		1
10132	RDX	121-82-4	1,900		57	140		1
10132	Tetryl	479-45-8	1,500		70	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,900		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		46	140		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	5,800		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	18		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	21		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.91	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.6		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.5		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.90	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		110	570		1
10501	Isopropanol	67-63-0	2,300		110	570		1
10501	Methanol	67-56-1	2,300		110	570		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	110		5.7	11		1
08283	Ethylene glycol	107-21-1	170		5.7	11		1
08283	Propylene glycol	57-55-6	170		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	4.0		1
10318	o-Terphenyl	84-15-1	1.5	J	1.4	4.0		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,000		5.67	22.6		1
07914	Boron	7440-42-8	234		0.406	5.64		1
01650	Calcium	7440-70-2	11,200		6.91	22.6		1
01654	Iron	7439-89-6	37,300		26.6	113		5
01656	Lithium	7439-93-2	145		0.25	2.3		1
01657	Magnesium	7439-95-4	8,880		2.86	11.3		1
06958	Manganese	7439-96-5	495		0.0880	0.564		1
10145	Phosphorus	7723-14-0	495		0.631	11.3		1
01662	Potassium	7440-09-7	5,010		20.3	56.4		1
01667	Sodium	7440-23-5	1,540		42.1	113		1
07968	Strontium	7440-24-6	155		0.0699	0.564		1
06969	Tin	7440-31-5	392		1.13	11.3		1
06970	Titanium	7440-32-6	1,610		0.0793	1.12		1
10146	Zirconium	7440-67-7	118		0.947	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.08		0.0677	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.96		0.0902	0.451		2
06126	Barium	7440-39-3	194		0.122	0.451		2
06127	Beryllium	7440-41-7	1.93		0.0180	0.113		2
06128	Cadmium	7440-43-9	1.74		0.0451	0.113		2
06131	Chromium	7440-47-3	43.4		0.135	0.451		2
06132	Cobalt	7440-48-4	70.9		0.0226	0.113		2
06133	Copper	7440-50-8	28.6		0.0744	0.451		2
06135	Lead	7439-92-1	16.9		0.0117	0.226		2
06138	Molybdenum	7439-98-7	13.8		0.0564	0.113		2
06139	Nickel	7440-02-0	41.0		0.113	0.451		2
06141	Selenium	7782-49-2	2.54		0.0451	0.451		2
06142	Silver	7440-22-4	14.1		0.0135	0.113		2
06145	Thallium	7440-28-0	0.940		0.0338	0.113		2
06148	Vanadium	7440-62-2	63.4		0.0248	0.113		2
06149	Zinc	7440-66-6	92.4		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172		0.0030	0.106		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

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14420 Albemarle Point Place
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17501 SDG#: DE175-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	21.4		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.4		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	566		10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	45.4	J	22.8	114		100
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.4		0.20	0.56		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011	14:42	Chelsea B Eastep	0.9
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011	15:27	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011	14:10	Jason M Long	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011	15:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011	15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011	15:50	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011	15:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011	13:57	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011	06:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011	11:37	Joseph M Gambler	1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
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17501 SDG#: DE175-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 12:56	Elizabeth J Marin	22.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:11	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 06:32	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:11	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 09:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 17:34	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 22:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:15	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 08:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309734
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 11:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 15:41	Elyse P Brunstetter	100
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	7.1	8.5		0.94
06192	Benzene	71-43-2	22	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	19	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	22	0.35	4.3		0.94
06192	Bromodichloromethane	75-27-4	21	0.09	4.3		0.94
06192	Bromoform	75-25-2	19	0.43	4.3		0.94
06192	Bromomethane	74-83-9	17	0.27	4.3		0.94
06192	2-Butanone	78-93-3	150	1.3	8.5		0.94
06192	n-Butylbenzene	104-51-8	18	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	19	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	19	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	23	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	20	0.12	4.3		0.94
06192	Chloroethane	75-00-3	16	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	20	0.32	4.3		0.94
06192	Chloroform	67-66-3	22	0.13	4.3		0.94
06192	Chloromethane	74-87-3	21	0.35	4.3		0.94
06192	2-Chlorotoluene	95-49-8	18	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	19	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	17	0.48	4.8		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	19	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	19	0.21	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	18	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	18	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	18	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	19	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	22	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	24	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	21	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	20	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	20	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	23	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	22	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	20	0.06	4.3		0.94
06192	Freon 113	76-13-1	24	0.12	4.3		0.94
06192	Freon 133a	75-88-7	21	0.48	4.8		0.85
06192	Hexachlorobutadiene	87-68-3	15	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	97	1.7	8.5		0.94
06192	Isopropylbenzene	98-82-8	21	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	19	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.22	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	98	0.42	8.5		0.94
06192	Methylene Chloride	75-09-2	23	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	20	0.08	4.3		0.94

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20		0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	20		0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	18		0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	21		0.21	4.3		0.94
06192	Toluene	108-88-3	21		0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	15		0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	14		0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	22		0.21	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	19		0.29	4.3		0.94
06192	Trichloroethene	79-01-6	21		0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	22		0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	18		0.35	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	19		0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	19		0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	21		0.21	4.3		0.94
06192	m+p-Xylene	179601-23-1	42		0.18	4.3		0.94
06192	o-Xylene	95-47-6	20		0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120		4.9	15		21.55
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	876		18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,300		19	190		1
04688	Acenaphthylene	208-96-8	1,400		19	190		1
04688	Aniline	62-53-3	880		190	560		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	2,100	J	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,400		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		19	190		1
04688	Benzoic acid	65-85-0	750		190	560		1
04688	Benzyl alcohol	100-51-6	1,400		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,300		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,500		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,300		19	190		1
04688	Carbazole	86-74-8	1,400		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		37	190		1
04688	4-Chloroaniline	106-47-8	1,000		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,200		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,100		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200		19	190		1
04688	2-Chlorophenol	95-57-8	1,300		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		37	190		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,400		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		19	190		1
04688	Dibenzofuran	132-64-9	1,400		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	980		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	940		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	950		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	870		110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,400		19	190		1
04688	Diethylphthalate	84-66-2	1,300		19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,300		37	190		1
04688	3,5-Dimethylphenol	108-68-9	2,000		37	190		1
04688	Dimethylphthalate	131-11-3	1,300		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,300		37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,300		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,400		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,400		19	370		1
04688	Fluoranthene	206-44-0	1,300		19	190		1
04688	Fluorene	86-73-7	1,400		19	190		1
04688	Hexachlorobenzene	118-74-1	1,400		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,000		75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	1,000		190	560		1
04688	Hexachloroethane	67-72-1	850		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		19	190		1
04688	Isophorone	78-59-1	1,300		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,300		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,200		19	190		1
04688	2-Methylphenol	95-48-7	1,300		37	190		1
04688	4-Methylphenol	106-44-5	1,200		37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,200		19	190		1
04688	2-Nitroaniline	88-74-4	1,500		19	190		1
04688	3-Nitroaniline	99-09-2	1,400		37	190		1
04688	4-Nitroaniline	100-01-6	1,200		75	190		1
04688	Nitrobenzene	98-95-3	1,300		19	190		1
04688	2-Nitrophenol	88-75-5	1,000		19	190		1
04688	4-Nitrophenol	100-02-7	1,000		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,300		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		19	190		1
04688	Pentachlorophenol	87-86-5	780		190	560		1
04688	Phenanthrene	85-01-8	1,300		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	1,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,100		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	26		0.75	1.9		1
10138	Acenaphthylene	208-96-8	24		0.37	1.9		1
10138	Anthracene	120-12-7	26		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	29		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	30		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	31		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	23		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	31		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	33		6.7	20		1
10138	Di-n-butylphthalate	84-74-2	32		6.7	20		1
10138	Chrysene	218-01-9	29		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	27		0.75	1.9		1
10138	Diethylphthalate	84-66-2	28		6.7	20		1
10138	Dimethylphthalate	131-11-3	27		6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.7	20		1
10138	Fluoranthene	206-44-0	27		0.75	1.9		1
10138	Fluorene	86-73-7	26		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	27		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	24		0.75	1.9		1
10138	Naphthalene	91-20-3	25		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	29		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	31		6.7	20		1
10138	Phenanthrene	85-01-8	26		0.75	1.9		1
10138	Pyrene	129-00-0	26		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.6		0.2	1.0		22.01
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,600		67	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		45	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,700		45	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,500		45	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,600		45	130		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	2,200		110	330		1
10132	Nitrobenzene	98-95-3	2,500		45	130		1
10132	Nitroglycerin	55-63-0	53,000		890	2,700		1
10132	2-Nitrotoluene	88-72-2	2,400		89	130		1
10132	3-Nitrotoluene	99-08-1	2,600		110	130		1
10132	4-Nitrotoluene	99-99-0	2,400		89	130		1
10132	PETN	78-11-5	69,000		890	2,700		1
10132	RDX	121-82-4	2,000		56	130		1
10132	Tetryl	479-45-8	1,600		68	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		45	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		45	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	6,300		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	14		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	17		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.4		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.80	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		110	570		1
10501	Isopropanol	67-63-0	2,100		110	570		1
10501	Methanol	67-56-1	2,200		110	570		1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	65		5.7	11		1
08283	Ethylene glycol	107-21-1	120		5.7	11		1
08283	Propylene glycol	57-55-6	120		5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.2	J	1.1	4.0		1
10318	o-Terphenyl	84-15-1	1.4	J	1.4	4.0		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	37,000		5.62	22.3		1
07914	Boron	7440-42-8	228		0.402	5.58		1
01650	Calcium	7440-70-2	8,780		6.84	22.3		1
01654	Iron	7439-89-6	37,300		26.3	112		5
01656	Lithium	7439-93-2	143		0.25	2.2		1
01657	Magnesium	7439-95-4	8,470		2.84	11.2		1
06958	Manganese	7439-96-5	666		0.0871	0.558		1
10145	Phosphorus	7723-14-0	494		0.625	11.2		1
01662	Potassium	7440-09-7	4,870		20.1	55.8		1
01667	Sodium	7440-23-5	1,530		41.6	112		1
07968	Strontium	7440-24-6	150		0.0692	0.558		1
06969	Tin	7440-31-5	386		1.12	11.2		1
06970	Titanium	7440-32-6	1,820		0.0809	1.14		1
10146	Zirconium	7440-67-7	116		0.938	5.58		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.32		0.0657	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.3		0.0876	0.438		2
06126	Barium	7440-39-3	174		0.296	1.10		5
06127	Beryllium	7440-41-7	2.15		0.0175	0.110		2
06128	Cadmium	7440-43-9	1.97		0.0438	0.110		2
06131	Chromium	7440-47-3	51.9		0.131	0.438		2
06132	Cobalt	7440-48-4	86.6		0.0219	0.110		2
06133	Copper	7440-50-8	34.4		0.0723	0.438		2
06135	Lead	7439-92-1	20.6		0.0114	0.219		2
06138	Molybdenum	7439-98-7	15.2		0.0548	0.110		2
06139	Nickel	7440-02-0	52.5		0.110	0.438		2
06141	Selenium	7782-49-2	2.64		0.0438	0.438		2
06142	Silver	7440-22-4	15.5		0.0131	0.110		2
06145	Thallium	7440-28-0	1.05		0.0329	0.110		2
06148	Vanadium	7440-62-2	81.0		0.0241	0.110		2
06149	Zinc	7440-66-6	107		0.613	3.29		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.187		0.0032	0.111		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 15:04	Chelsea B Eastep	0.94
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 15:49	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 14:30	Jason M Long	21.55
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:15	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 14:15	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/15/2011 06:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 12:18	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 13:32	Elizabeth J Marin	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:14	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 07:14	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:20	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 09:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1

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Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 17:59	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 11:58	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 23:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:19	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:46	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309735
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309736
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,100		5.62	22.3		1
07914	Boron	7440-42-8	14.6		0.402	5.58		1
01650	Calcium	7440-70-2	8,230		6.84	22.3		1
01654	Iron	7439-89-6	35,200		26.3	112		5
01656	Lithium	7439-93-2	26.7		0.25	2.2		1
01657	Magnesium	7439-95-4	7,410		2.84	11.2		1
06958	Manganese	7439-96-5	531		0.0871	0.558		1
10145	Phosphorus	7723-14-0	375		0.625	11.2		1
01662	Potassium	7440-09-7	3,190		20.1	55.8		1
01667	Sodium	7440-23-5	471		41.6	112		1
07968	Strontium	7440-24-6	42.9		0.0692	0.558		1
06969	Tin	7440-31-5	2.60	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,340		0.0793	1.12		1
10146	Zirconium	7440-67-7	5.87		0.938	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.295		0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.31		0.0893	0.447		2
06126	Barium	7440-39-3	200		0.121	0.447		2
06127	Beryllium	7440-41-7	1.10		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.354		0.0447	0.112		2
06131	Chromium	7440-47-3	38.1		0.134	0.447		2
06132	Cobalt	7440-48-4	13.1		0.0223	0.112		2
06133	Copper	7440-50-8	20.2		0.0737	0.447		2
06135	Lead	7439-92-1	13.7		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.364		0.0558	0.112		2
06139	Nickel	7440-02-0	31.7		0.112	0.447		2
06141	Selenium	7782-49-2	0.0994	J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0483	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.441		0.0335	0.112		2
06148	Vanadium	7440-62-2	65.9		0.0246	0.112		2
06149	Zinc	7440-66-6	92.4		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0032	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309736
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 15:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:11	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 11:40	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 08:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309736
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17501 SDG#: DE175-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 08:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 08:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 08:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 10:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 10:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 11:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 16:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1		6.2	7.4		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.83
06192	Methylene Chloride	75-09-2	1.3	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.83

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.83
06192	Toluene	108-88-3	0.14	J	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		22.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.5	U	18.5	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.81
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		5.49	21.8		1
07914	Boron	7440-42-8	7.38		0.393	5.45		1
01650	Calcium	7440-70-2	16,200		6.68	21.8		1
01654	Iron	7439-89-6	19,500		5.14	21.8		1
01656	Lithium	7439-93-2	19.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,360		2.77	10.9		1
06958	Manganese	7439-96-5	135		0.0851	0.545		1
10145	Phosphorus	7723-14-0	331		0.611	10.9		1
01662	Potassium	7440-09-7	2,520		19.6	54.5		1
01667	Sodium	7440-23-5	182		40.7	109		1
07968	Strontium	7440-24-6	33.3		0.0676	0.545		1
06969	Tin	7440-31-5	2.30	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,200		0.0782	1.10		1
10146	Zirconium	7440-67-7	2.69	J	0.916	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.252		0.0654	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0872	0.436		2
06126	Barium	7440-39-3	143		0.118	0.436		2
06127	Beryllium	7440-41-7	0.847		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.368		0.0436	0.109		2
06131	Chromium	7440-47-3	28.6		0.131	0.436		2
06132	Cobalt	7440-48-4	29.0		0.0218	0.109		2
06133	Copper	7440-50-8	16.3		0.0720	0.436		2
06135	Lead	7439-92-1	14.1		0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.948		0.0545	0.109		2
06139	Nickel	7440-02-0	35.8		0.109	0.436		2
06141	Selenium	7782-49-2	0.0758	J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0212	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.449		0.0327	0.109		2
06148	Vanadium	7440-62-2	62.9		0.0240	0.109		2
06149	Zinc	7440-66-6	87.3		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17502 SDG#: DE175-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-024-SA5DN-SB-19.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 16:11	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 17:31	Jason M Long	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:18	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:17	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 14:34	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 01:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/24/2011 17:01	Joseph M Gambler	1

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Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 14:08	Elizabeth J Marin	22.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:17	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 07:57	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:30	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 12:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 09:49	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 18:49	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 12:50	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 11:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:35	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:31	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:26	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309737
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17502 SDG#: DE175-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 12:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 16:21	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401A	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.9	8.2		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.86
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.17	J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	20.4	J	19.8	39.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.54	J	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.95	U	0.95	2.9		2
10199	EFH (C15-C20)	n.a.	1.2	J	0.95	2.9		2
10199	EFH (C21-C30)	n.a.	20		0.95	2.9		2
10199	EFH (C30 - C40)	n.a.	36		0.95	2.9		2
10199	EFH (C8-C11)	n.a.	0.95	U	0.95	2.9		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,100		5.96	23.7		1
07914	Boron	7440-42-8	13.8		0.427	5.93		1
01650	Calcium	7440-70-2	6,520		7.27	23.7		1
01654	Iron	7439-89-6	32,500		15.5	119		5
01656	Lithium	7439-93-2	22.0		0.26	2.4		1
01657	Magnesium	7439-95-4	6,280		3.01	11.9		1
06958	Manganese	7439-96-5	491		0.0925	0.593		1
10145	Phosphorus	7723-14-0	263		0.664	11.9		1
01662	Potassium	7440-09-7	3,920		21.3	59.3		1
01667	Sodium	7440-23-5	406		44.2	119		1
07968	Strontium	7440-24-6	37.2		0.0735	0.593		1
06969	Tin	7440-31-5	2.75	J	1.19	11.9		1
06970	Titanium	7440-32-6	932		0.0834	1.17		1
10146	Zirconium	7440-67-7	2.93	J	0.996	5.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.229	J	0.0704	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.42		0.0939	0.470		2
06126	Barium	7440-39-3	160		0.127	0.470		2
06127	Beryllium	7440-41-7	0.987		0.0188	0.117		2
06128	Cadmium	7440-43-9	0.333		0.0470	0.117		2
06131	Chromium	7440-47-3	30.6		0.141	0.470		2
06132	Cobalt	7440-48-4	10.7		0.0235	0.117		2
06133	Copper	7440-50-8	16.3		0.0775	0.470		2
06135	Lead	7439-92-1	11.5		0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.524		0.0587	0.117		2
06139	Nickel	7440-02-0	24.5		0.117	0.470		2
06141	Selenium	7782-49-2	0.199	J	0.0470	0.470		2
06142	Silver	7440-22-4	0.0595	J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.430		0.0352	0.117		2
06148	Vanadium	7440-62-2	48.2		0.0258	0.117		2
06149	Zinc	7440-66-6	82.0		0.658	3.52		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0278	J	0.0033	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.96	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	35.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.24	1.2		1

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Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.60		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.33	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 16:34	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 17:51	Jason M Long	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:21	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:21	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 14:52	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 02:16	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 02:13	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1

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SL-026-SA5DN-SB-4.0-5.0

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17503 SDG#: DE175-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 14:45	Elizabeth J Marin	20.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:21	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 08:39	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:39	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 10:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/13/2011 20:02	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 21:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 02:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/15/2011 12:38	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309738
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17503 SDG#: DE175-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:43	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 12:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 16:38	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 17:58	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.9		6.8	8.1		0.93
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.93
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.93
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.93
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.93

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.15	J	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.1	J	18.1	36.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.74	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	37		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	170		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		5.38	21.4		1
07914	Boron	7440-42-8	7.23		0.385	5.35		1
01650	Calcium	7440-70-2	3,540		6.55	21.4		1
01654	Iron	7439-89-6	21,700		5.04	21.4		1
01656	Lithium	7439-93-2	24.2		0.24	2.1		1
01657	Magnesium	7439-95-4	3,910		2.72	10.7		1
06958	Manganese	7439-96-5	615		0.0834	0.535		1
10145	Phosphorus	7723-14-0	321		0.599	10.7		1
01662	Potassium	7440-09-7	2,080		19.2	53.5		1
01667	Sodium	7440-23-5	177		39.9	107		1
07968	Strontium	7440-24-6	20.2		0.0663	0.535		1
06969	Tin	7440-31-5	2.75	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,080		0.0759	1.07		1
10146	Zirconium	7440-67-7	2.26	J	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.49		0.0839	0.419		2
06126	Barium	7440-39-3	109		0.113	0.419		2
06127	Beryllium	7440-41-7	0.700		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.288		0.0419	0.105		2
06131	Chromium	7440-47-3	19.2		0.126	0.419		2
06132	Cobalt	7440-48-4	10.3		0.0210	0.105		2
06133	Copper	7440-50-8	11.1		0.0692	0.419		2
06135	Lead	7439-92-1	8.35		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.411		0.0524	0.105		2
06139	Nickel	7440-02-0	23.1		0.105	0.419		2
06141	Selenium	7782-49-2	0.0577	J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0167	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.323		0.0315	0.105		2
06148	Vanadium	7440-62-2	41.6		0.0231	0.105		2
06149	Zinc	7440-66-6	62.8		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0030	U	0.0030	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-026-SA5DN-SB-17.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 16:56	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 18:11	Jason M Long	20.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:24	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:24	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 15:10	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 02:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 02:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 15:21	Elizabeth J Marin	20.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:24	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 10:46	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:49	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 10:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/14/2011 17:34	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:06	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:15	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 12:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:51	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:35	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 14:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2

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Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309739
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17504 SDG#: DE175-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 11:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 11:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 13:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 16:44	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:00	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.5		6.9	8.2		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	1.1	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.87
06192	Toluene	108-88-3	0.11	J	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		23.41
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	29.3	J	19.4	38.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.51	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,400		5.75	22.9		1
07914	Boron	7440-42-8	14.0		0.412	5.72		1
01650	Calcium	7440-70-2	19,500		7.01	22.9		1
01654	Iron	7439-89-6	34,600		10.8	45.7		2
01656	Lithium	7439-93-2	26.8		0.25	2.3		1
01657	Magnesium	7439-95-4	6,880		2.90	11.4		1
06958	Manganese	7439-96-5	364		0.0892	0.572		1
10145	Phosphorus	7723-14-0	204		0.640	11.4		1
01662	Potassium	7440-09-7	2,900		20.6	57.2		1
01667	Sodium	7440-23-5	540		42.7	114		1
07968	Strontium	7440-24-6	48.3		0.0709	0.572		1
06969	Tin	7440-31-5	2.56	J	1.14	11.4		1
06970	Titanium	7440-32-6	987		0.0812	1.14		1
10146	Zirconium	7440-67-7	3.20	J	0.961	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.185	J	0.0680	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.64		0.0906	0.453		2
06126	Barium	7440-39-3	168		0.122	0.453		2
06127	Beryllium	7440-41-7	1.21		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.255		0.0453	0.113		2
06131	Chromium	7440-47-3	27.5		0.136	0.453		2
06132	Cobalt	7440-48-4	7.89		0.0227	0.113		2
06133	Copper	7440-50-8	12.2		0.0747	0.453		2
06135	Lead	7439-92-1	10.7		0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.246		0.0566	0.113		2
06139	Nickel	7440-02-0	21.6		0.113	0.453		2
06141	Selenium	7782-49-2	0.0464	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0368	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.345		0.0340	0.113		2
06148	Vanadium	7440-62-2	43.6		0.0249	0.113		2
06149	Zinc	7440-66-6	55.7		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0044	J	0.0032	0.111		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94	U	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.70		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 17:19	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 18:31	Jason M Long	23.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:28	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:28	Christopher D Meeks	n.a.

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17505 SDG#: DE175-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 15:28	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 03:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 03:40	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 15:58	Elizabeth J Marin	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:27	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 11:29	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 21:58	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:05	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 10:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 19:13	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:21	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:28	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 13:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 12:55	Joanne M Gates	2
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1

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Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309740
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17505 SDG#: DE175-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 12:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 12:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 13:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 17:01	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:01	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.4		7.2	8.6		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.93
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.93
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.93
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.93
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.93
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.93
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.93
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.93
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.93
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.93
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.93
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.93
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.93
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.93
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.93
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.93
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.93
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.93
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.93
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.93
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.93
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.93
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.93
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.93
06192	Methylene Chloride	75-09-2	1.6	J	0.26	4.3		0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.93

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.93
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.93
06192	Toluene	108-88-3	0.14	J	0.09	4.3		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.93
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.93
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.93
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.93
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.93
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.93
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.85
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	23.9	J	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.8
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.50	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.85	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		5.69	22.6		1
07914	Boron	7440-42-8	12.3		0.408	5.66		1
01650	Calcium	7440-70-2	19,600		6.94	22.6		1
01654	Iron	7439-89-6	30,800		14.8	113		5
01656	Lithium	7439-93-2	26.3		0.25	2.3		1
01657	Magnesium	7439-95-4	6,150		2.88	11.3		1
06958	Manganese	7439-96-5	220		0.0883	0.566		1
10145	Phosphorus	7723-14-0	201		0.634	11.3		1
01662	Potassium	7440-09-7	3,090		20.4	56.6		1
01667	Sodium	7440-23-5	449		42.2	113		1
07968	Strontium	7440-24-6	45.2		0.0702	0.566		1
06969	Tin	7440-31-5	2.70	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,020		0.0812	1.14		1
10146	Zirconium	7440-67-7	3.62	J	0.951	5.66		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0679	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.92		0.0906	0.453		2
06126	Barium	7440-39-3	149		0.122	0.453		2
06127	Beryllium	7440-41-7	0.959		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.128		0.0453	0.113		2
06131	Chromium	7440-47-3	32.3		0.136	0.453		2
06132	Cobalt	7440-48-4	8.54		0.0226	0.113		2
06133	Copper	7440-50-8	15.9		0.0747	0.453		2
06135	Lead	7439-92-1	8.54		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.336		0.0566	0.113		2
06139	Nickel	7440-02-0	22.2		0.113	0.453		2
06141	Selenium	7782-49-2	0.0453	U	0.0453	0.453		2
06142	Silver	7440-22-4	0.0712	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.362		0.0340	0.113		2
06148	Vanadium	7440-62-2	50.7		0.0249	0.113		2
06149	Zinc	7440-66-6	74.5		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.7		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.92	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-036-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 17:41	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 18:51	Jason M Long	21.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:31	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 16:05	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 03:32	Brian K Graham	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 04:18	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 16:34	Elizabeth J Marin	20.8
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:31	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 12:11	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 19:38	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:36	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:41	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 13:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 12:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/15/2011 13:01	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 12:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2

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Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309741
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17506 SDG#: DE175-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 12:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 12:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 14:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 17:18	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.0		6.7	8.0		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.88
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.88
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.88
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.88
06192	Methylene Chloride	75-09-2	1.4	J	0.24	4.0		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.88

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.88
06192	Toluene	108-88-3	0.16	J	0.08	4.0		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.89
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	65.1		19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,800		5.64	22.4		1
07914	Boron	7440-42-8	15.1		0.404	5.61		1
01650	Calcium	7440-70-2	8,480		6.88	22.4		1
01654	Iron	7439-89-6	36,000		26.4	112		5
01656	Lithium	7439-93-2	26.2		0.25	2.2		1
01657	Magnesium	7439-95-4	7,090		2.85	11.2		1
06958	Manganese	7439-96-5	567		0.0875	0.561		1
10145	Phosphorus	7723-14-0	413		0.628	11.2		1
01662	Potassium	7440-09-7	2,930		20.2	56.1		1
01667	Sodium	7440-23-5	476		41.8	112		1
07968	Strontium	7440-24-6	43.6		0.0695	0.561		1
06969	Tin	7440-31-5	2.80	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,250		0.0804	1.13		1
10146	Zirconium	7440-67-7	4.86	J	0.942	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.271		0.0667	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.52		0.0889	0.444		2
06126	Barium	7440-39-3	180		0.120	0.444		2
06127	Beryllium	7440-41-7	0.931		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.344		0.0444	0.111		2
06131	Chromium	7440-47-3	32.9		0.133	0.444		2
06132	Cobalt	7440-48-4	12.6		0.0222	0.111		2
06133	Copper	7440-50-8	17.7		0.0733	0.444		2
06135	Lead	7439-92-1	13.2		0.0116	0.222		2
06138	Molybdenum	7439-98-7	0.333		0.0555	0.111		2
06139	Nickel	7440-02-0	28.5		0.111	0.444		2
06141	Selenium	7782-49-2	0.0730	J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0599	J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.386		0.0333	0.111		2
06148	Vanadium	7440-62-2	57.6		0.0244	0.111		2
06149	Zinc	7440-66-6	80.0		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0033	U	0.0033	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	17.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.92	1.7		1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

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17507 SDG#: DE175-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 18:03	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 19:11	Jason M Long	22.89
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 16:23	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 03:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 04:56	Gregory J Drahovsky	1

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Sample Description: DUP13-SA5DN-QC-060711 Soil
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17507 SDG#: DE175-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 17:11	Elizabeth J Marin	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:34	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 12:54	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:17	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 20:03	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 22:51	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 13:54	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 14:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:05	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:08	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 06:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309742
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17507 SDG#: DE175-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 14:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 17:30	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:05	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	12		7.1	8.5		0.98
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.98
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.98
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.98
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.98
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.98
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.98
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.98
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.98
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.98
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.98
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.98
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.98
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.98
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.98
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.98
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.98
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.98
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.98
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.98
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.98
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.98
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.98
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.98
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.98
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.98
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.98
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.98
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.98
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.98
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.98
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.98
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.98
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.98
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.98
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.98
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.98
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.98
06192	Methylene Chloride	75-09-2	1.5	J	0.25	4.2		0.98
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.98

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.98
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.98
06192	Toluene	108-88-3	0.13	J	0.08	4.2		0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.98
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.98
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.98
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.98
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.98
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.98
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.98
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.4	U	5.4	16		25.05
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	33.0	J	17.8	35.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.27
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.51	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.9		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	7.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		5.38	21.4		1
07914	Boron	7440-42-8	6.69		0.385	5.35		1
01650	Calcium	7440-70-2	1,420		6.55	21.4		1
01654	Iron	7439-89-6	21,300		5.04	21.4		1
01656	Lithium	7439-93-2	29.4		0.24	2.1		1
01657	Magnesium	7439-95-4	4,410		2.72	10.7		1
06958	Manganese	7439-96-5	267		0.0834	0.535		1
10145	Phosphorus	7723-14-0	526		0.599	10.7		1
01662	Potassium	7440-09-7	3,050		19.2	53.5		1
01667	Sodium	7440-23-5	69.6	J	39.9	107		1
07968	Strontium	7440-24-6	10.7		0.0663	0.535		1
06969	Tin	7440-31-5	2.53	J	1.07	10.7		1
06970	Titanium	7440-32-6	1,260		0.0752	1.06		1
10146	Zirconium	7440-67-7	0.898	U	0.898	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0629	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.79		0.0839	0.419		2
06126	Barium	7440-39-3	128		0.113	0.419		2
06127	Beryllium	7440-41-7	0.786		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.168		0.0419	0.105		2
06131	Chromium	7440-47-3	19.6		0.126	0.419		2
06132	Cobalt	7440-48-4	7.01		0.0210	0.105		2
06133	Copper	7440-50-8	8.79		0.0692	0.419		2
06135	Lead	7439-92-1	9.46		0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.962		0.0524	0.105		2
06139	Nickel	7440-02-0	14.4		0.105	0.419		2
06141	Selenium	7782-49-2	0.432		0.0419	0.419		2
06142	Silver	7440-22-4	0.0615	J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.386		0.0315	0.105		2
06148	Vanadium	7440-62-2	41.7		0.0231	0.105		2
06149	Zinc	7440-66-6	88.2		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0117	J	0.0031	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.86	1.6		1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17508 SDG#: DE175-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	5.41		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-071-SA8N-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 18:25	Chelsea B Eastep	0.98
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 19:31	Jason M Long	25.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:38	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 16:41	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 04:22	Brian K Graham	1

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
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17508 SDG#: DE175-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 05:36	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 17:47	Elizabeth J Marin	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:38	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 13:36	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 20:28	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 23:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 15:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:11	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2

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Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309743
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

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17508 SDG#: DE175-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 15:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 17:47	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:07	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3		6.9	8.2		0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.96
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.96
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.96
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.96
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.96
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.96
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.96
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.96
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.96
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.96
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.96
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.2		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.96
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.1		0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.96

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.96
06192	Toluene	108-88-3	0.24	J	0.08	4.1		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.58
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	26.6	J	17.7	35.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.90	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.13
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
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17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.54	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.9		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.4		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.21	20.7		1
07914	Boron	7440-42-8	6.37		0.373	5.18		1
01650	Calcium	7440-70-2	2,890		6.34	20.7		1
01654	Iron	7439-89-6	21,000		4.87	20.7		1
01656	Lithium	7439-93-2	29.6		0.23	2.1		1
01657	Magnesium	7439-95-4	4,770		2.63	10.4		1
06958	Manganese	7439-96-5	298		0.0807	0.518		1
10145	Phosphorus	7723-14-0	552		0.580	10.4		1
01662	Potassium	7440-09-7	3,520		18.6	51.8		1
01667	Sodium	7440-23-5	61.0	J	38.6	104		1
07968	Strontium	7440-24-6	14.1		0.0642	0.518		1
06969	Tin	7440-31-5	2.41	J	1.04	10.4		1
06970	Titanium	7440-32-6	1,290		0.0742	1.05		1
10146	Zirconium	7440-67-7	2.16	J	0.869	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0967	J	0.0633	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0844	0.422		2
06126	Barium	7440-39-3	121		0.114	0.422		2
06127	Beryllium	7440-41-7	0.655		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.191		0.0422	0.106		2
06131	Chromium	7440-47-3	18.9		0.127	0.422		2
06132	Cobalt	7440-48-4	7.05		0.0211	0.106		2
06133	Copper	7440-50-8	10.4		0.0697	0.422		2
06135	Lead	7439-92-1	9.15		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.426		0.0528	0.106		2
06139	Nickel	7440-02-0	15.3		0.106	0.422		2
06141	Selenium	7782-49-2	0.159	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0650	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.336		0.0317	0.106		2
06148	Vanadium	7440-62-2	37.6		0.0232	0.106		2
06149	Zinc	7440-66-6	97.7		0.591	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	J	0.0030	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.86	1.6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	7.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-122-SA8N-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 18:47	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 19:51	Jason M Long	23.58
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:41	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 17:00	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 04:47	Brian K Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/25/2011 06:14	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 18:24	Elizabeth J Marin	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:41	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 14:19	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:46	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 11:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/11/2011 20:53	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/09/2011 23:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:19	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 16:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:11	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309744
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17509 SDG#: DE175-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 15:24	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 17:53	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:08	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7		6.3	7.6		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.8		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.8		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.83
06192	Methylene Chloride	75-09-2	1.5	J	0.23	3.8		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.83

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.83
06192	Toluene	108-88-3	0.22	J	0.08	3.8		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.82
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.7	J	18.6	37.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	J	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.96	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.53	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	1.0	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.0	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.87	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.52
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.73	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
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17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		5.49	21.8		1
07914	Boron	7440-42-8	7.14		0.393	5.46		1
01650	Calcium	7440-70-2	2,690		6.69	21.8		1
01654	Iron	7439-89-6	22,900		5.14	21.8		1
01656	Lithium	7439-93-2	28.8		0.24	2.2		1
01657	Magnesium	7439-95-4	4,520		2.77	10.9		1
06958	Manganese	7439-96-5	275		0.0851	0.546		1
10145	Phosphorus	7723-14-0	393		0.611	10.9		1
01662	Potassium	7440-09-7	2,680		19.6	54.6		1
01667	Sodium	7440-23-5	75.3	J	40.7	109		1
07968	Strontium	7440-24-6	18.1		0.0677	0.546		1
06969	Tin	7440-31-5	2.42	J	1.09	10.9		1
06970	Titanium	7440-32-6	1,170		0.0782	1.10		1
10146	Zirconium	7440-67-7	2.19	J	0.917	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0655	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.96		0.0873	0.437		2
06126	Barium	7440-39-3	118		0.118	0.437		2
06127	Beryllium	7440-41-7	0.669		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.133		0.0437	0.109		2
06131	Chromium	7440-47-3	21.1		0.131	0.437		2
06132	Cobalt	7440-48-4	7.26		0.0218	0.109		2
06133	Copper	7440-50-8	7.98		0.0720	0.437		2
06135	Lead	7439-92-1	7.61		0.0114	0.218		2
06138	Molybdenum	7439-98-7	0.803		0.0546	0.109		2
06139	Nickel	7440-02-0	14.8		0.109	0.437		2
06141	Selenium	7782-49-2	0.295	J	0.0437	0.437		2
06142	Silver	7440-22-4	0.0370	J	0.0131	0.109		2
06145	Thallium	7440-28-0	0.328		0.0327	0.109		2
06148	Vanadium	7440-62-2	42.8		0.0240	0.109		2
06149	Zinc	7440-66-6	67.0		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.91	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-140-SA8N-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 19:09	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 20:11	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:44	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 17:18	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 05:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/26/2011 09:40	Chad A Moline	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 19:01	Elizabeth J Marin	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:44	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 15:01	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 22:55	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 12:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/13/2011 18:47	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:32	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 16:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2

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Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309745
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17510 SDG#: DE175-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202A	06/21/2011 13:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202A	06/21/2011 13:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201A	06/20/2011 15:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11161243202A	06/13/2011 18:04	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201A	06/15/2011 18:09	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202A	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201A	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201A	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7		7.0	8.4		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.91
06192	Methylene Chloride	75-09-2	1.7	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.19	J	0.08	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.42	J	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.82	J	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	7.8		0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.87	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts; therefore, all results are reported from the original extract.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,100		5.69	22.6		1
07914	Boron	7440-42-8	8.57		0.407	5.65		1
01650	Calcium	7440-70-2	5,510		6.93	22.6		1
01654	Iron	7439-89-6	25,300		5.33	22.6		1
01656	Lithium	7439-93-2	21.1		0.25	2.3		1
01657	Magnesium	7439-95-4	4,640		2.87	11.3		1
06958	Manganese	7439-96-5	254		0.0882	0.565		1
10145	Phosphorus	7723-14-0	177		0.633	11.3		1
01662	Potassium	7440-09-7	1,960		20.4	56.5		1
01667	Sodium	7440-23-5	135		42.2	113		1
07968	Strontium	7440-24-6	26.7		0.0701	0.565		1
06969	Tin	7440-31-5	2.87	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,240		0.0803	1.13		1
10146	Zirconium	7440-67-7	2.76	J	0.950	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.198	J	0.0672	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.56		0.0896	0.448		2
06126	Barium	7440-39-3	109		0.121	0.448		2
06127	Beryllium	7440-41-7	0.873		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0793	J	0.0448	0.112		2
06131	Chromium	7440-47-3	21.6		0.134	0.448		2
06132	Cobalt	7440-48-4	6.64		0.0224	0.112		2
06133	Copper	7440-50-8	10.6		0.0739	0.448		2
06135	Lead	7439-92-1	10.0		0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.238		0.0560	0.112		2
06139	Nickel	7440-02-0	15.4		0.112	0.448		2
06141	Selenium	7782-49-2	0.0507	J	0.0448	0.448		2
06142	Silver	7440-22-4	0.130		0.0134	0.112		2
06145	Thallium	7440-28-0	0.346		0.0336	0.112		2
06148	Vanadium	7440-62-2	45.9		0.0246	0.112		2
06149	Zinc	7440-66-6	66.0		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108	J	0.0031	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.92	1.7		1

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-133-SA8N-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111641AA	06/13/2011 19:31	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111611AA	06/10/2011 20:31	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201115924615	06/08/2011 15:51	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201115924615	06/08/2011 15:47	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLE026	06/30/2011 17:36	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11160SLF026	06/20/2011 05:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLI026	06/26/2011 11:15	Chad A Moline	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLE026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLI026	06/17/2011 09:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11160SLF026	06/10/2011 07:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11160A34A	06/09/2011 19:37	Elizabeth J Marin	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201115924615	06/08/2011 15:47	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640007A	06/15/2011 15:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111640006A	06/15/2011 23:05	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620006A	06/15/2011 12:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620006A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111640006A	06/13/2011 18:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111640007A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111610013A	06/13/2011 19:12	Dustin A Underkoffler	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:20	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600002A	06/11/2011 14:45	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 18:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111610013A	06/10/2011 11:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600002A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	111605708003	06/15/2011 13:18	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	111665708001	06/16/2011 07:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111605708003	06/14/2011 13:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111601026003D	06/11/2011 09:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2

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Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309746
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-11 SDG#: DE175-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111601026003C	06/11/2011 09:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111601026003B	06/11/2011 09:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111601026003A	06/11/2011 09:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111595711006	06/10/2011 15:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111605708003	06/09/2011 21:32	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111665708001	06/15/2011 21:33	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111601026003	06/09/2011 21:48	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111595711006	06/09/2011 10:25	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621202B	06/21/2011 14:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621202B	06/21/2011 14:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11169621201B	06/20/2011 16:11	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11161243202A	06/13/2011 18:21	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621202B	06/20/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621201B	06/18/2011 07:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11160039401B	06/09/2011 10:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11161243202A	06/10/2011 16:30	Luz M Groff	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: TB-060711 Water
SSFL Area IV Collocated Soil Sampling
TB-060711

LLI Sample # WW 6309747
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-12 SDG#: DE175-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-060711 Water
SSFL Area IV Collocated Soil Sampling
TB-060711

LLI Sample # WW 6309747
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-12 SDG#: DE175-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 16:11	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111601AA	06/09/2011 10:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111601AA	06/09/2011 10:17	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 16:11	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11165A20A	06/14/2011 23:08	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11165A20A	06/14/2011 23:08	Laura M Krieger	1

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Analysis Report

Sample Description: EB15-SA5DN-SB-060711 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5DN-SB-060711

LLI Sample # WW 6309748
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 13:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-13 SDG#: DE175-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.71		0.526	1.05		1
	N-Nitrosodimethylamine is detected in the method blank at an estimated concentration of 1.84 ng/l. The blank value was not subtracted from the analytical result.							
	The analysis was repeated outside of the required hold time and N-Nitrosodimethylamine was again detected in the blank and sample. The data reported is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.60	J	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB15-SA5DN-SB-060711 Water
SSFL Area IV Collocated Soil Sampling
EB15-SA5DN-SB-060711

LLI Sample # WW 6309748
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 13:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-13 SDG#: DE175-13EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	230	J	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11159WAB026	06/21/2011 23:05	Matthew S Woods	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB15-SA5DN-SB-060711 Water**
SSFL Area IV Collocated Soil Sampling
EB15-SA5DN-SB-060711

LLI Sample # WW 6309748
LLI Group # 1250458
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 13:00

Submitted: 06/08/2011 09:30
Reported: 07/01/2011 13:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

75-13 SDG#: DE175-13EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11159WAB026	06/08/2011 13:25	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11165A20A	06/14/2011 23:30	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11165A20A	06/14/2011 23:30	Laura M Krieger	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111640024A	06/15/2011 21:23	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111590025A	06/10/2011 00:31	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111590025A	06/09/2011 09:05	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111640024A	06/14/2011 08:00	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111590034A	06/11/2011 13:25	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111610019A	06/11/2011 01:40	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111600001A	06/09/2011 14:39	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111590032A	06/10/2011 17:38	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111590034A	06/09/2011 10:00	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	111590032A	06/09/2011 10:00	Catherine R Wiker	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11159196901C	06/09/2011 12:02	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11166117101B	06/15/2011 19:53	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11166117101B	06/15/2011 16:20	Carolyn M Mastropietro	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111641AA	Sample number(s): 6309733-6309735,6309737-6309746									
Acetone	9.9		6.7	8.0	ug/kg	104		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	97		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	106		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	102		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	86		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	103		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	103		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	101		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	112		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	105		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	78		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	110		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	90		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	98		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	74		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	105		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	102		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	103		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	102		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	99		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	88		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	109		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	113		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	113		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	109		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	100		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	98		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	105		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	114		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	94		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	104		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	108		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	101		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	106		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	107		61-134		
Methylene Chloride	2.8	J	0.24	4.0	ug/kg	118		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	103		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	107		77-120		
Toluene	0.10	J	0.08	4.0	ug/kg	105		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	95		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	107		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	102		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	104		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	103		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	99		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	109		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	105		80-120		
Batch number: E111601AA	Sample number(s): 6309747									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102		80-123		
Batch number: E111611AA	Sample number(s): 6309733-6309735,6309737-6309746									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	100	108	70-130	7	30
Batch number: L111651AA	Sample number(s): 6309747									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11159WAB026	Sample number(s): 6309748									
N-Nitrosodimethylamine	1.84		0.500	1.00	ng/l	92	91	70-130	1	30
Batch number: 11160SLF026	Sample number(s): 6309733-6309735,6309737-6309746									
Acenaphthene	17	U	17.	170	ug/kg	89		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	90		75-122		
Aniline	170 U		170.	500	ug/kg	90		34-94		
Anthracene	17	U	17.	170	ug/kg	91		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	93		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	91		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	114		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	110		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	117		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	124		67-125		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170		170.	500	ug/kg	82		68-111		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	87		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	92		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	97		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	81		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	87		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	70		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	84		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	118		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	89		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	77*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	74		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	75		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	89		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	90		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	92		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	111		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	90		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	90		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	90		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	91		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	90		75-117		
Fluoranthene	17	U	17.	170	ug/kg	99		78-116		
Fluorene	17	U	17.	170	ug/kg	90		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	80		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	63		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	74		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	115		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	87		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	80		66-117		
Naphthalene	17	U	17.	170	ug/kg	85		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	90		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	97		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	71		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	86		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	88		67-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-octylphthalate	17	U	17.	170	ug/kg	115		68-130		
Pentachlorophenol	170 U		170.	500	ug/kg	89		51-117		
Phenanthrene	17	U	17.	170	ug/kg	90		77-113		
Phenol	17	U	17.	170	ug/kg	82		58-112		
Pyrene	17	U	17.	170	ug/kg	86		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	83		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	88		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11161SLE026	Sample number(s): 6309733-6309735,6309737-6309746									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11167SLI026	Sample number(s): 6309733-6309735,6309737-6309746									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	79		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	87		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	95		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	100		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	88		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	88		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	85		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	104		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	107		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	85		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	85		56-121		
Batch number: 11160A34A	Sample number(s): 6309733-6309735,6309737-6309746									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74		67-119		
Batch number: 11165A20A	Sample number(s): 6309747-6309748									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	91	75-135	10	30
Batch number: 111640007A	Sample number(s): 6309733-6309735,6309737-6309746									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	104	101	54-134	3	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	104	101	54-134	3	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	117		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	111		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	99		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	81		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	80 U	U	80.	120	ug/kg	110		78-128		
3-Nitrotoluene	100 U	U	100.	120	ug/kg	116		73-127		
4-Nitrotoluene	80 U	U	80.	120	ug/kg	109		80-120		
PETN	800 U	U	800.	2,400	ug/kg	117		80-120		
RDX	50 U	U	50.	120	ug/kg	101		75-131		
Tetryl	61 U	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40 U	U	40.	120	ug/kg	110		77-137		
2,4,6-Trinitrotoluene	40 U	U	40.	120	ug/kg	116		80-120		
Batch number: 111640024A	Sample number(s): 6309748									
4-Amino-2,6-Dinitrotoluene	0.30 U	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20 U	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20 U	U	0.20	0.60	ug/l	90	100	50-122	11	30
2,4-Diamino-6-nitrotoluene	0.20 U	U	0.20	0.60	ug/l	90	100	50-122	11	30
1,3-Dinitrobenzene	0.20 U	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20 U	U	0.20	0.60	ug/l	99	100	80-120	1	30
2,6-Dinitrotoluene	0.20 U	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65 U	U	0.65	2.0	ug/l	97	97	65-125	0	30
Nitrobenzene	0.20 U	U	0.20	0.60	ug/l	98	99	75-121	1	30
Nitroglycerin	5.2 U	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20 U	U	0.20	0.60	ug/l	97	98	74-120	1	30
3-Nitrotoluene	0.40 U	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60 U	U	0.60	1.2	ug/l	97	97	80-120	0	30
PETN	6.0 U	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20 U	U	0.20	0.60	ug/l	89	90	70-125	1	30
Tetryl	0.40 U	U	0.40	0.60	ug/l	82	83	72-141	1	30
1,3,5-Trinitrobenzene	0.20 U	U	0.20	0.60	ug/l	87	89	53-129	2	30
2,4,6-Trinitrotoluene	0.20 U	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 111590025A	Sample number(s): 6309748									
25b Formaldehyde 8315A	10 U	U	10.	50	ug/l	94	104	69-130	10	30
Batch number: 111640006A	Sample number(s): 6309733-6309735,6309737-6309746									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	102		80-126		
Batch number: 111660019A	Sample number(s): 6309737,6309740									
6a Perchlorate EPA 6850	2.1 U	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111620006A	Sample number(s): 6309733-6309735,6309737-6309746									
Aroclor 5432	1.0 U	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	U	1.0	3.3	ug/kg	109*	113*	36-106	4	30
Aroclor 5460	1.0 U	U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	U	0.33	1.7	ug/kg	108		72-120		
PCB-1221	0.33 U	U	0.33	1.7	ug/kg					
PCB-1232	0.33 U	U	0.33	1.7	ug/kg					
PCB-1242	0.33 U	U	0.33	1.7	ug/kg					
PCB-1248	0.33 U	U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	U	0.33	1.7	ug/kg					
PCB-1260	0.39 U	U	0.39	1.7	ug/kg	129		65-137		
PCB-1262	0.33 U	U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	U	0.33	1.7	ug/kg					
Batch number: 111590034A	Sample number(s): 6309748									
EFH (C12-C14)	0.10 U	U	0.10	0.60	mg/l	94	84	69-125	11	30

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	103	91	77-125	12	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	72	68-124	17	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	93	80-121	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	72	62	46-103	15	30
Batch number: 111610013A	Sample number(s): 6309733-6309735,6309737-6309746									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	99		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		76-122		
EFH (C21-C30)	0.43	J	0.40	1.2	mg/kg	91		69-132		
EFH (C30 - C40)	0.90	J	0.40	1.2	mg/kg	114		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	79		54-107		
Batch number: 111600001A	Sample number(s): 6309748									
Diethylene glycol	10	U	10.	100	mg/l	135*	115	78-126	16	20
Ethylene glycol	10	U	10.	100	mg/l	130*	105	80-124	21*	20
Propylene glycol	10	U	10.	100	mg/l	130*	105	80-120	21*	20
Batch number: 111600002A	Sample number(s): 6309733-6309735,6309737-6309746									
Diethylene glycol	5.0	U	5.0	10	mg/kg	112		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	114		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	112		75-125		
Batch number: 111600024A	Sample number(s): 6309733-6309735,6309737-6309746									
Ethanol	100	U	100.	500	ug/kg	88		71-129		
Isopropanol	100	U	100.	500	ug/kg	85		75-125		
Methanol	100	U	100.	500	ug/kg	87		68-129		
Batch number: 111610019A	Sample number(s): 6309748									
Ethanol	200	U	200.	1,000	ug/l	92		66-132		
Isopropanol	200	U	200.	1,000	ug/l	88		75-125		
Methanol	200	U	200.	1,000	ug/l	96		71-140		
Batch number: 111590032A	Sample number(s): 6309748									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	79	77	75-125	3	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	92	89	75-125	3	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	89	87	75-125	2	20
Batch number: 111640015A	Sample number(s): 6309733-6309735,6309737-6309746									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
Batch number: 111595711006	Sample number(s): 6309733-6309746									
Mercury	0.0028	U	0.0028	0.0977	mg/kg	93		88-123		
Batch number: 111601026003A	Sample number(s): 6309733-6309746									
Antimony	0.0600	U	0.0600	0.200	mg/kg	104		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0400	U	0.0400	0.100	mg/kg	101		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	104		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	99		82-118		

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Copper	0.0660	U	0.0660	0.400	mg/kg	94		83-110		
Lead	0.0160	J	0.0104	0.200	mg/kg	101		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	99		81-110		
Silver	0.0120	U	0.0120	0.100	mg/kg	101		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		83-110		
Vanadium	0.0337	J	0.0220	0.100	mg/kg	93		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	98		81-112		
Batch number: 111601026003B	Sample number(s): 6309733-6309746									
Selenium	0.0400	U	0.0400	0.400	mg/kg	101		83-111		
Batch number: 111601026003C	Sample number(s): 6309733-6309746									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	104		78-122		
Batch number: 111601026003D	Sample number(s): 6309733-6309746									
Barium	0.108	U	0.108	0.400	mg/kg	98		81-111		
Batch number: 111605708003	Sample number(s): 6309733-6309746									
Aluminum	5.03	U	5.03	20.0	mg/kg	79		61-110		
Boron	0.406	J	0.360	5.00	mg/kg	90		78-110		
Calcium	6.13	U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71	U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.22	U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54	U	2.54	10.0	mg/kg	93		82-110		
Manganese	0.0780	U	0.0780	0.500	mg/kg	98		89-112		
Phosphorus	1.82	J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0	U	18.0	50.0	mg/kg	92		78-110		
Sodium	37.3	U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620	U	0.0620	0.500	mg/kg	99		86-110		
Tin	1.75	J	1.00	10.0	mg/kg	97		90-114		
Zirconium	0.840	U	0.840	5.00	mg/kg	107		80-120		
Batch number: 111665708001	Sample number(s): 6309733-6309746									
Titanium	0.0710	U	0.0710	1.00	mg/kg	105		80-120		
Batch number: 11159196901C	Sample number(s): 6309748									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	102	99	90-110	3	20
Batch number: 11161243202A	Sample number(s): 6309733-6309734,6309736-6309746									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	85		80-120		
Batch number: 11166102201A	Sample number(s): 6309733-6309734,6309736-6309745									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11166102201B	Sample number(s): 6309746									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11166117101B	Sample number(s): 6309748									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	99	98	90-110	1	20
Batch number: 11169621201A	Sample number(s): 6309733-6309734,6309736-6309745									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11169621201B	Sample number(s): 6309746									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11171621202A	Sample number(s): 6309733-6309734,6309736-6309745									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11171621202B	Sample number(s): 6309746									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11160039401A	Sample number(s): 6309733,6309736-6309737									
18a pH by 9045C						100		95-105		
Batch number: 11160039401B	Sample number(s): 6309738-6309746									
18a pH by 9045C						100		95-105		
Batch number: 11174162402A	Sample number(s): 6309733-6309737									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11174162402B	Sample number(s): 6309738-6309746									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111641AA	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Acetone	98	89	15-210	6	30				
Benzene	115	101	55-143	9	30				
Bromobenzene	108	88	43-139	16	30				
Bromochloromethane	112	104	60-137	3	30				
Bromodichloromethane	108	97	53-136	7	30				
Bromoform	100	89	38-124	8	30				
Bromomethane	91	81	42-168	7	30				
2-Butanone	103	92	37-163	7	30				
n-Butylbenzene	114	86	30-146	23	30				
sec-Butylbenzene	115	89	33-157	21	30				
tert-Butylbenzene	111	88	41-152	18	30				
Carbon Tetrachloride	121	106	45-153	9	30				
Chlorobenzene	111	94	49-135	12	30				
Chloroethane	83	74	39-152	8	30				
2-Chloroethyl Vinyl Ether	95	94	32-139	3	30				
Chloroform	116	102	61-142	9	30				
Chloromethane	105	96	51-163	4	30				
2-Chlorotoluene	109	86	42-146	19	30				
4-Chlorotoluene	114	89	39-145	20	30				
Chlorotrifluoroethene	88	89	70-130	1	30				
1,2-Dibromo-3-chloropropane	106	89	30-139	13	30				
Dibromochloromethane	105	91	51-128	10	30				
1,2-Dibromoethane	104	93	54-129	7	30				
Dibromomethane	105	93	57-130	7	30				
1,2-Dichlorobenzene	107	85	36-133	19	30				
1,3-Dichlorobenzene	106	84	34-134	19	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	107	84	35-136	19	30				
Dichlorodifluoromethane	100	91	26-151	6	30				
1,1-Dichloroethane	116	103	63-142	8	30				
1,2-Dichloroethane	115	102	68-131	8	30				
1,1-Dichloroethene	123	111	61-149	7	30				
cis-1,2-Dichloroethene	111	98	60-136	8	30				
trans-1,2-Dichloroethene	113	96	59-142	12	30				
1,2-Dichloropropane	108	96	62-135	8	30				
1,3-Dichloropropane	106	93	58-129	9	30				
2,2-Dichloropropane	121	107	53-147	8	30				
1,1-Dichloropropene	118	104	54-145	9	30				
cis-1,3-Dichloropropene	103	94	51-131	5	30				
trans-1,3-Dichloropropene	102	91	49-129	8	30				
Ethylbenzene	114	95	44-141	14	30				
Freon 113	127	111	56-156	9	30				
Freon 133a	109	109	61-131	1	30				
Hexachlorobutadiene	97	69	10-155	30	30				
2-Hexanone	104	91	32-160	9	30				
Isopropylbenzene	117	96	38-144	15	30				
p-Isopropyltoluene	113	88	29-152	21	30				
Methyl Tertiary Butyl Ether	106	92	55-129	10	30				
4-Methyl-2-pentanone	106	91	46-139	10	30				
Methylene Chloride	113	101	61-141	7	30				
n-Propylbenzene	117	92	39-157	20	30				
Styrene	110	93	35-134	13	30				
1,1,1,2-Tetrachloroethane	111	93	52-130	14	30				
1,1,2,2-Tetrachloroethane	100	84	40-152	14	30				
Tetrachloroethene	118	96	42-149	16	30				
Toluene	112	95	50-146	12	30				
1,2,3-Trichlorobenzene	90	70	10-140	21	30				
1,2,4-Trichlorobenzene	87	67	10-136	21	30				
1,1,1-Trichloroethane	114	101	64-142	8	30				
1,1,2-Trichloroethane	105	91	54-139	10	30				
Trichloroethene	112	97	53-144	10	30				
Trichlorofluoromethane	115	104	47-163	6	30				
1,2,3-Trichloropropane	101	85	45-154	14	30				
1,2,4-Trimethylbenzene	111	88	37-149	18	30				
1,3,5-Trimethylbenzene	115	91	38-150	20	30				
Vinyl Chloride	105	96	50-154	5	30				
m+p-Xylene	116	98	44-137	13	30				
o-Xylene	113	94	42-137	14	30				
Batch number: E111601AA	Sample number(s): 6309747 UNSPK: P308916								
1,4-Dioxane	101	118	73-138	16	30				
Batch number: E111611AA	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
1,4-Dioxane	108	99	70-130	2	30				
Batch number: 11160SLF026	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Acenaphthene	70*	72*	75-115	1	30				
Acenaphthylene	72*	73*	81-110	1	30				
Aniline	47	47	35-95	1	30				
Anthracene	71*	74*	75-115	2	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzidine	18*	22*	35-141	17	30				
Benzo(a)anthracene	71	75	65-122	4	30				
Benzo(a)pyrene	82	84	57-126	2	30				
Benzo(b)fluoranthene	79	82	59-125	2	30				
Benzo(g,h,i)perylene	89	90	59-127	0	30				
Benzo(k)fluoranthene	84	85	56-132	0	30				
Benzoic acid	54	40	10-173	30	30				
Benzyl alcohol	73	74	67-115	0	30				
4-Bromophenyl-phenylether	66*	70	67-129	5	30				
Butylbenzylphthalate	77	79	73-134	2	30				
Di-n-butylphthalate	69	71	67-123	2	30				
Carbazole	70	73	64-120	3	30				
4-Chloro-3-methylphenol	73*	74*	76-110	1	30				
4-Chloroaniline	48	54	23-95	11	30				
bis(2-Chloroethoxy)methane	65*	67*	75-104	2	30				
bis(2-Chloroethyl)ether	63	62	60-116	3	30				
bis(2-Chloroisopropyl)ether	61	58	55-142	7	30				
2-Chloronaphthalene	64	66	50-141	1	30				
2-Chlorophenol	74	71*	73-121	5	30				
4-Chlorophenyl-phenylether	67*	69*	80-109	2	30				
Chrysene	70	74	62-128	4	30				
Dibenz(a,h)anthracene	87	87	65-125	2	30				
Dibenzofuran	70*	72	71-112	2	30				
1,2-Dichlorobenzene	55*	52*	66-108	7	30				
1,3-Dichlorobenzene	52*	50*	63-109	4	30				
1,4-Dichlorobenzene	52*	50*	70-100	3	30				
3,3'-Dichlorobenzidine	49	46	16-119	7	30				
2,4-Dichlorophenol	72*	73*	78-117	1	30				
Diethylphthalate	69	70	66-118	1	30				
2,4-Dimethylphenol	70*	69*	78-110	3	30				
3,5-Dimethylphenol	101	105	70-130	3	30				
Dimethylphthalate	68	72	64-118	3	30				
4,6-Dinitro-2-methylphenol	0*	0*	24-116	0	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	69*	72*	73-113	3	30				
2,6-Dinitrotoluene	70	71	69-123	0	30				
1,2-Diphenylhydrazine	73	76	71-129	2	30				
bis(2-Ethylhexyl)phthalate	74	77	63-122	2	30				
Fluoranthene	69*	72*	73-112	3	30				
Fluorene	72*	74*	77-111	2	30				
Hexachlorobenzene	70*	73*	77-114	4	30				
Hexachlorobutadiene	56*	55*	62-120	3	30				
Hexachlorocyclopentadiene	26	28	10-153	5	30				
Hexachloroethane	49*	46*	57-109	8	30				
Indeno(1,2,3-cd)pyrene	89	88	61-126	2	30				
Isophorone	68*	69*	73-102	0	30				
1-Methylnaphthalene	67*	68*	73-112	0	30				
2-Methylnaphthalene	63*	63*	76-114	1	30				
2-Methylphenol	70*	69*	75-111	2	30				
4-Methylphenol	65*	64*	71-111	2	30				
Naphthalene	62*	62*	72-116	2	30				
2-Nitroaniline	76	78	67-125	1	30				
3-Nitroaniline	71	72	59-122	0	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitroaniline	58	62	52-112	5	30				
Nitrobenzene	68*	67*	72-106	2	30				
2-Nitrophenol	53*	55*	74-115	2	30				
4-Nitrophenol	57	54	54-113	7	30				
N-Nitroso-di-n-propylamine	66	67	60-116	0	30				
N-Nitrosodimethylamine	70	73	47-116	3	30				
N-Nitrosodiphenylamine	69*	70*	86-145	0	30				
Di-n-octylphthalate	88	90	56-126	0	30				
Pentachlorophenol	52	41	28-127	25	30				
Phenanthrene	70	71	65-125	1	30				
Phenol	68	69	58-126	0	30				
Pyrene	75	78	74-126	3	30				
1,2,4-Trichlorobenzene	61*	58*	72-115	5	30				
2,4,5-Trichlorophenol	71*	71*	78-109	1	30				
2,4,6-Trichlorophenol	72*	74*	77-115	1	30				
Batch number: 11161SLE026	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
N-Nitrosodimethylamine	90	93	70-130	3	30				
Batch number: 11167SLI026	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Acenaphthene	75	68	63-105	9	30				
Acenaphthylene	70	63*	67-114	11	30				
Anthracene	76	70	60-122	9	30				
Benzo(a)anthracene	85	78	59-128	9	30				
Benzo(a)pyrene	86	79	45-138	9	30				
Benzo(b)fluoranthene	88	83	43-155	7	30				
Benzo(g,h,i)perylene	63	61	33-141	4	30				
Benzo(k)fluoranthene	90	83	42-144	9	30				
Butylbenzylphthalate	95	87	57-173	10	30				
Di-n-butylphthalate	91	85	65-148	7	30				
Chrysene	83	77	48-134	8	30				
Dibenz(a,h)anthracene	75	72	22-133	6	30				
Diethylphthalate	78	74	70-136	5	30				
Dimethylphthalate	78	73*	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	87	79	39-167	10	30				
Fluoranthene	79	73	26-166	8	30				
Fluorene	76	70	66-122	9	30				
Indeno(1,2,3-cd)pyrene	73	69	21-143	5	30				
1-Methylnaphthalene	79	72	72-123	10	30				
2-Methylnaphthalene	71	64	64-103	10	30				
Naphthalene	72	66	61-102	9	30				
N-Nitrosodimethylamine	81	76	48-113	7	30				
Di-n-octylphthalate	92	83	40-192	10	30				
Phenanthrene	74	70	12-165	7	30				
Pyrene	73	69	15-153	6	30				
Batch number: 11160A34A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
9a TPH by EPA 8015B Gas C5-C12	64	60	39-118	9	30				
Batch number: 111640007A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
4-Amino-2,6-Dinitrotoluene	108	117	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	105	114	80-137	7	50				
1,3-Dinitrobenzene	111	119	38-166	5	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	102	110	80-131	5	50				
2,6-Dinitrotoluene	108	115	80-127	5	50				
HMX	90	100	63-128	8	50				
Nitrobenzene	108	113	80-125	3	50				
Nitroglycerin	91	99	80-120	6	50				
2-Nitrotoluene	101	109	80-122	6	50				
3-Nitrotoluene	108	116	72-119	5	50				
4-Nitrotoluene	100	109	80-125	6	50				
PETN	116	128*	80-121	8	50				
RDX	82	90	75-129	7	50				
Tetryl	64	74	55-174	12	50				
1,3,5-Trinitrobenzene	83	91	82-126	7	50				
2,4,6-Trinitrotoluene	105	115	82-130	7	50				
Batch number: 111640006A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
25a Formaldehyde 8315A	101	110	80-120	8	50				
Batch number: 111660019A	Sample number(s): 6309737,6309740 UNSPK: 6309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111620006A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
PCB-1016	95	75	29-146	23	50				
PCB-1260	112	91	39-149	20	50				
Batch number: 111610013A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
EFH (C12-C14)	96	86	49-123	12	20				
EFH (C15-C20)	114	98	49-123	15	20				
EFH (C21-C30)	110	86	49-123	25*	20				
EFH (C30 - C40)	100	88	49-123	11	20				
EFH (C8-C11)	95	84	49-123	12	20				
Batch number: 111600002A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Diethylene glycol	45*	27*	59-109	49*	20				
Ethylene glycol	67	48*	63-107	34*	20				
Propylene glycol	74	53*	63-107	33*	20				
Batch number: 111600024A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
Ethanol	81	77	48-130	5	20				
Isopropanol	79	75	12-149	5	20				
Methanol	79	76	43-138	5	20				
Batch number: 111610019A	Sample number(s): 6309748 UNSPK: P310961								
Ethanol	92	96	62-145	4	20				
Isopropanol	88	92	73-131	4	20				
Methanol	96	96	52-159	0	20				
Batch number: 111640015A	Sample number(s): 6309733-6309735,6309737-6309746 UNSPK: 6309733								
m-Terphenyl	68*	66*	75-125	3	20				
o-Terphenyl	77	76	75-125	2	20				
p-Terphenyl	82	79	75-125	4	20				
Batch number: 111595711006	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Mercury	95	98	65-135	8	20	0.0043 J	0.0092 J	73* (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111601026003A	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Antimony	61*	81	75-125	19	20	0.224	0.259	15 (1)	20
Arsenic	104	214*	75-125	21*	20	6.68	7.30	9	20
Beryllium	105	133*	75-125	11	20	0.867	0.964	11	20
Cadmium	116	140*	75-125	12	20	0.377	0.311	19 (1)	20
Chromium	80	160*	75-125	18	20	30.2	33.5	10	20
Cobalt	96	128*	75-125	20	20	14.7	11.5	24*	20
Copper	81	136*	75-125	18	20	17.1	17.7	3	20
Lead	100	215 (2)	75-125	20	20	11.8	12.0	1	20
Nickel	54*	160*	75-125	24*	20	30.7	27.8	10	20
Silver	124	141*	75-125	10	20	0.0480 J	0.0424 J	12 (1)	20
Thallium	115	143*	75-125	11	20	0.372	0.387	4 (1)	20
Vanadium	61 (2)	223 (2)	75-125	24*	20	49.7	57.9	15	20
Zinc	51 (2)	190 (2)	75-125	15	20	76.0	81.2	7	20
Batch number: 111601026003B	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Selenium	108	115	75-125	4	20	0.105 J	0.0873 J	18 (1)	20
Batch number: 111601026003C	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Molybdenum	119	135*	75-125	9	20	0.317	0.320	1 (1)	20
Batch number: 111601026003D	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Barium	-65 (2)	-249 (2)	75-125	11	20	177	176	1	20
Batch number: 111605708003	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Aluminum	5628 (2)	5203 (2)	75-125	3	20	22,200	23,800	7	20
Boron	98	97	84-115	2	20	11.2	12.8	14 (1)	20
Calcium	-586 (2)	-1127 (2)	75-125	24*	20	12,100	7,230	51*	20
Iron	2370 (2)	2376 (2)	75-125	0	20	30,400	30,900	1	20
Lithium	107	105	82-114	2	20	21.8	23.4	7	20
Magnesium	616 (2)	442 (2)	75-125	5	20	6,580	6,500	1	20
Manganese	231 (2)	539 (2)	75-125	29*	20	321	466	37*	20
Phosphorus	123	123	75-125	0	20	313	329	5	20
Potassium	167*	156*	75-125	3	20	2,750	2,800	2	20
Sodium	98	97	75-125	1	20	384	414	7 (1)	20
Strontium	97	94	75-115	3	20	39.8	37.7	5	20
Tin	86	86	80-110	2	20	2.29 J	2.28 J	0 (1)	20
Zirconium	101	100	75-125	2	20	3.14 J	5.15	48* (1)	20
Batch number: 111665708001	Sample number(s): 6309733-6309746 UNSPK: 6309733 BKG: 6309733								
Titanium	173 (2)	355 (2)	75-125	12	20	1,240	1,170	6	20
Batch number: 11161243202A	Sample number(s): 6309733-6309734,6309736-6309746 UNSPK: 6309733 BKG: 6309733								
3a Cr VI by EPA 7199	93		75-125			0.39 J	0.44 J	13 (1)	20
Batch number: 11166102201A	Sample number(s): 6309733-6309734,6309736-6309745 UNSPK: 6309733 BKG: 6309733								
17a Cyanide by 9012B	97		75-125			0.18 U	0.18 U	0 (1)	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11166102201B	Sample number(s): 6309746 UNSPK: P310775 BKG: P310775										
17a Cyanide by 9012B	97		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11169621201A	Sample number(s): 6309733-6309734,6309736-6309745 UNSPK: 6309733 BKG: 6309733										
7a Perchlorate EPA 314.0	98		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11169621201B	Sample number(s): 6309746 UNSPK: 6309746 BKG: 6309746										
7a Perchlorate EPA 314.0	100		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11171621202A	Sample number(s): 6309733-6309734,6309736-6309745 UNSPK: 6309733 BKG: 6309733										
11a Anions by 300.0 - Fluoride	52*		80-120			13.7		16.4		18	20
11a Anions by 300.0 - Nitrate	95		80-120			1.3	J	1.5		11 (1)	20
Batch number: 11171621202B	Sample number(s): 6309746 UNSPK: 6309746 BKG: 6309746										
11a Anions by 300.0 - Fluoride	69*		80-120			2.9		3.6		22* (1)	20
11a Anions by 300.0 - Nitrate	89		80-120			1.2	J	1.3	J	8 (1)	20
Batch number: 11160039401A	Sample number(s): 6309733,6309736-6309737 BKG: 6309733										
18a pH by 9045C						8.81		8.54		3	3
Batch number: 11160039401B	Sample number(s): 6309738-6309746 BKG: 6309746										
18a pH by 9045C						8.09		8.15		1	3
Batch number: 11174162402A	Sample number(s): 6309733-6309737 BKG: 6309733										
28a Moisture Content by 160.3						12.2		12.2		1	20
Moisture Content by 160.3						12.2		12.2		1	20
Moisture Content by 160.3						12.2		12.2		1	20
Batch number: 11174162402B	Sample number(s): 6309738-6309746 BKG: 6309741										
Moisture Content by 160.3						13.4		13.0		3	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6309733	101	99	101	92
6309734	102	101	103	100
6309735	103	103	101	102
6309737	104	104	98	96
6309738	104	100	100	92
6309739	104	100	99	95
6309740	106	107	98	96
6309741	105	104	99	94
6309742	105	103	100	94
6309743	106	105	99	96

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309744	104	100	103	88
6309745	105	100	101	93
6309746	106	103	100	95
Blank	104	100	99	94
LCS	104	101	102	103
MS	102	101	103	100
MSD	103	103	101	102
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111601AA

	Toluene-d8
6309747	101
Blank	100
LCS	100
MS	102
MSD	97
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111611AA

	Toluene-d8
6309733	95
6309734	93
6309735	95
6309737	93
6309738	94
6309739	94
6309740	92
6309741	93
6309742	95
6309743	102
6309744	98
6309745	91
6309746	101
Blank	95
LCS	94
LCSD	95
MS	93
MSD	95
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6309747	103	102	100	96
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

Analysis Name: 15b NDMA by 1625C
Batch number: 11159WAB026

	N-Nitrosodimethylamine-d6
6309748	162*
Blank	129
LCS	129
LCSD	136
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11160SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6309733	83	86	78	81	77	80
6309734	93	94	87	84	84	86
6309735	91	91	85	84	81	88
6309737	86	89	83	85	85	87
6309738	87	87	83	85	83	89
6309739	85	85	84	78	81	88
6309740	82	80	75	71	70	86
6309741	78	80	74	74	72	85
6309742	79	77	72	69	66	86
6309743	83	84	87	79	83	92
6309744	84	85	87	81	82	86
6309745	83	84	81	78	79	90
6309746	83	83	75	75	75	87
Blank	86	90	92	88	85	75
LCS	90	94	100	92	87	85
MS	93	94	87	84	84	86
MSD	91	91	85	84	81	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11161SLE026

	N-Nitrosodimethylamine-d6
6309733	106
6309734	107
6309735	104
6309737	95
6309738	98
6309739	147
6309740	94
6309741	97
6309742	91
6309743	113
6309744	120
6309745	113
6309746	103
Blank	122
LCS	113

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

MS	107		
MSD	104		
Limits:	50-150		

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11167SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6309733	84	72	87
6309734	90	78	87
6309735	88	76	85
6309737	96	84	93
6309738	95	81	93
6309739	95	80	91
6309740	90	75	86
6309741	97	81	93
6309742	87	75	94
6309743	83	60	88
6309744	100	85	95
6309745	93	75	88
6309746	91	76	88
Blank	92	81	95
LCS	99	85	98
MS	90	78	87
MSD	88	76	85
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11160A34A

	Trifluorotoluene-F
6309733	74
6309734	80
6309735	75
6309737	73
6309738	73
6309739	68
6309740	71
6309741	68
6309742	72
6309743	71
6309744	72
6309745	66
6309746	73
Blank	85
LCS	87
MS	80
MSD	75
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11165A20A

	Trifluorotoluene-F

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309747	63
6309748	65
Blank	67
LCS	93
LCSD	90
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111590025A

	Butyraldehyde
6309748	106
Blank	90
LCS	83
LCSD	76
Limits:	45-145

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111620006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6309733	79	92
6309734	87	106
6309735	78	94
6309737	89	100
6309738	83	87
6309739	90	95
6309740	89	107
6309741	94	109
6309742	85	98
6309743	86	99
6309744	92	105
6309745	87	104
6309746	77	91
Blank	99	104
LCS	112	112
LCSD	112	119
MS	87	106
MSD	78	94
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111640006A

	Butyraldehyde
6309733	105
6309734	127*
6309735	122
6309737	118
6309738	149*
6309739	116
6309740	120
6309741	110
6309742	110

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309743	147*
6309744	135*
6309745	131*
6309746	116
Blank	156*
LCS	126
MS	127*
MSD	122
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111640007A

2-Nitro-m-xylene

6309733	116
6309734	108
6309735	120
6309737	107
6309738	113
6309739	113
6309740	122
6309741	113
6309742	122
6309743	121
6309744	122
6309745	120
6309746	122
Blank	122
LCS	109
LCSD	115
MS	108
MSD	120
Limits:	80-146

Analysis Name: 16b Energetics by 8330A
Batch number: 111640024A

2-Nitro-m-xylene

6309748	113
Blank	107
LCS	102
LCSD	106
Limits:	50-134

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111590032A

n-Triacontane-d62

6309748	89
Blank	87
LCS	88
LCSD	84
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111590034A

	Chlorobenzene	Orthoterphenyl
6309748	99	103
Blank	86	98
LCS	102	106
LCSD	92	94
Limits:	28-152	52-131

Analysis Name: 21b Glycols by 8015B
Batch number: 111600001A

	Tetramethylene glycol
6309748	105
Blank	100
LCS	123*
LCSD	106
Limits:	77-119

Analysis Name: 21a Glycols by 8015B
Batch number: 111600002A

	Tetramethylene glycol
6309733	83
6309734	89
6309735	85
6309737	88
6309738	89
6309739	83
6309740	88
6309741	82
6309742	85
6309743	88
6309744	86
6309745	88
6309746	83
Blank	102
LCS	116
MS	89
MSD	85
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111600024A

	Acetone
6309733	80
6309734	76
6309735	75
6309737	78
6309738	82
6309739	78

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309740	81
6309741	82
6309742	76
6309743	82
6309744	82
6309745	76
6309746	71
Blank	88
LCS	92
MS	76
MSD	75
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111610013A

	Chlorobenzene	Orthoterphenyl
6309733	85	95
6309734	94	105
6309735	84	96
6309737	81	97
6309738	72	93
6309739	81	98
6309740	74	92
6309741	66	85
6309742	70	88
6309743	71	90
6309744	73	95
6309745	66	90
6309746	60	83
Blank	98	107
LCS	94	106
MS	94	105
MSD	84	96
Limits:	37-125	47-145

Analysis Name: 19b Alcohols by 8015B
Batch number: 111610019A

	Acetone
6309748	99
Blank	98
LCS	95
MS	97
MSD	98
Limits:	54-147

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111640015A

	n-Triacontane-d62
6309733	95
6309734	110
6309735	97

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250458
Reported: 07/01/11 at 01:58 PM

Surrogate Quality Control

6309737	86
6309738	101
6309739	89
6309740	89
6309741	93
6309742	86
6309743	87
6309744	86
6309745	90
6309746	95
Blank	96
LCS	94
MS	110
MSD	97
Limits:	50-150

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1250458 Sample# 6309733-48

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: AM/LW 6-7-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-024-SA5DN-SB-4.5MS	06.07.11	0855	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-024-SA5DN-SB-4.0-5.0MS	06.07.11	0910	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-024-SA5DN-SB-19.5	06.07.11	0925	SOIL	NONE	5-Encores										X	X	X										
SL-024-SA5DN-SB-19.0-20.0	06.07.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-4.5	06.07.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-4.0-5.0	06.07.11	1135	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-17.5	06.07.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-17.0-18.0	06.07.11	1145	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-4.5	06.07.11	1430	SOIL	NONE	5~~4~~-Encores										X	X	X										
SL-036-SA5DN-SB-4.0-5.0	06.07.11	1435	SOIL	NONE	4~~5~~-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-9.5	06.07.11	1440	SOIL	NONE	5-Encores										X	X	X										
SL-036-SA5DN-SB-9.0-10.0	06.07.11	1445	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP13-SA5DN-QC-060711	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
DUP13-SA5DN-QC-060711	06.07.11	0920	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/07/2011 / 1700		Lancaster Laboratories, inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/8/11 0930	8754 3339 9165; 9176, 9187,9198	

acct#13013 Cap#1250458 Sample#6309733-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SL-071-SA8N-SB-2.5	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA8N-SB-2.0-3.0	06.07.11	0905	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-122-SA8N-SB-2.5	06.07.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-122-SA8N-SB-2.0-3.0	06.07.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-140-SA8N-SB-3.5	06.07.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-140-SA8N-SB-3.0-4.0	06.07.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-133-SA8N-SB-7.5	06.06.11	1710	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA8N-SB-7.0-8.0	06.06.11	1715	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060711	06.07.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0830	Airbill No.(s) 8754 3339 9165; 9176, 9187,9198	

acct#13013 Cp#1250458 Sample#6309733-48

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					VOCs	SECONDARY FOR ALL LOCATIONS									Other instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	1-250mL Glass				X							
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NaOH	1-500 poly							X				
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	HCL	5-40mL Vials	X									X	
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	4-40mL Vials			X						X		
Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700		Received for Laboratory by: (*Signature*)													Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0912		Airbill No.(s) 8754 3339 9165; 9176, 9187													

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/08/2011
Group Number: 1250463
SDG: DX099
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA5DN-SB-4.0-5.0 Soil	6309771
SL-024-SA5DN-SB-4.0-5.0MS Soil	6309772
SL-024-SA5DN-SB-4.0-5.0MSD Soil	6309773
SL-024-SA5DN-SB-19.0-20.0 Soil	6309774
SL-026-SA5DN-SB-4.0-5.0 Soil	6309775
SL-026-SA5DN-SB-17.0-18.0 Soil	6309776
SL-036-SA5DN-SB-4.0-5.0 Soil	6309777
SL-036-SA5DN-SB-9.0-10.0 Soil	6309778
DUP13-SA5DN-QC-060711 Soil	6309779
SL-071-SA8N-SB-2.0-3.0 Soil	6309780
SL-122-SA8N-SB-2.0-3.0 Soil	6309781
SL-140-SA8N-SB-3.0-4.0 Soil	6309782
SL-133-SA8N-SB-7.0-8.0 Soil	6309783

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0887	J	0.0219	1.13	1
11031	12378-PeCDD	40321-76-4	0.250	J	0.0187	5.63	1
11031	123478-HxCDD	39227-28-6	0.0830	JQ	0.0156	5.63	1
11031	123678-HxCDD	57653-85-7	0.143	JBQ	0.0164	5.63	1
11031	123789-HxCDD	19408-74-3	0.178	JBQ	0.0155	5.63	1
11031	1234678-HpCDD	35822-46-9	1.69	JB	0.0270	5.63	1
11031	OCDD	3268-87-9	13.5	B	0.0181	11.3	1
11031	2378-TCDF	51207-31-9	0.0933	JQ	0.0137	1.13	1
11031	12378-PeCDF	57117-41-6	0.337	JB	0.00843	5.63	1
11031	23478-PeCDF	57117-31-4	0.238	JB	0.00797	5.63	1
11031	123478-HxCDF	70648-26-9	0.144	JBQ	0.0121	5.63	1
11031	123678-HxCDF	57117-44-9	0.150	JB	0.0113	5.63	1
11031	123789-HxCDF	72918-21-9	0.151	JB	0.0117	5.63	1
11031	234678-HxCDF	60851-34-5	0.0767	JBQ	0.0116	5.63	1
11031	1234678-HpCDF	67562-39-4	0.0901	JB	0.00740	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0253	JB	0.0100	5.63	1
11031	OCDF	39001-02-0	0.133	JBQ	0.0158	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309771
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 12:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.5		0.0273	1.11	1
11031	12378-PeCDD	40321-76-4	99.1		0.0313	5.56	1
11031	123478-HxCDD	39227-28-6	101		0.0363	5.56	1
11031	123678-HxCDD	57653-85-7	97.7	B	0.0378	5.56	1
11031	123789-HxCDD	19408-74-3	98.7	B	0.0358	5.56	1
11031	1234678-HpCDD	35822-46-9	99.6	B	0.0654	5.56	1
11031	OCDD	3268-87-9	212	B	0.0509	11.1	1
11031	2378-TCDF	51207-31-9	19.7		0.0243	1.11	1
11031	12378-PeCDF	57117-41-6	97.9	B	0.0223	5.56	1
11031	23478-PeCDF	57117-31-4	97.5	B	0.0206	5.56	1
11031	123478-HxCDF	70648-26-9	101	B	0.0621	5.56	1
11031	123678-HxCDF	57117-44-9	99.5	B	0.0565	5.56	1
11031	123789-HxCDF	72918-21-9	100	B	0.0569	5.56	1
11031	234678-HxCDF	60851-34-5	102	B	0.0510	5.56	1
11031	1234678-HpCDF	67562-39-4	98.4	B	0.0445	5.56	1
11031	1234789-HpCDF	55673-89-7	100	B	0.0585	5.56	1
11031	OCDF	39001-02-0	203	B	0.0501	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309772
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 17:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.8		0.0261	1.12	1
11031	12378-PeCDD	40321-76-4	100		0.0415	5.58	1
11031	123478-HxCDD	39227-28-6	101		0.0309	5.58	1
11031	123678-HxCDD	57653-85-7	101	B	0.0327	5.58	1
11031	123789-HxCDD	19408-74-3	99.0	B	0.0308	5.58	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0533	5.58	1
11031	OCDD	3268-87-9	205	B	0.0509	11.2	1
11031	2378-TCDF	51207-31-9	19.5		0.0220	1.12	1
11031	12378-PeCDF	57117-41-6	99.5	B	0.0219	5.58	1
11031	23478-PeCDF	57117-31-4	99.6	B	0.0211	5.58	1
11031	123478-HxCDF	70648-26-9	101	B	0.0621	5.58	1
11031	123678-HxCDF	57117-44-9	100	B	0.0558	5.58	1
11031	123789-HxCDF	72918-21-9	103	B	0.0607	5.58	1
11031	234678-HxCDF	60851-34-5	103	B	0.0567	5.58	1
11031	1234678-HpCDF	67562-39-4	99.6	B	0.0372	5.58	1
11031	1234789-HpCDF	55673-89-7	101	B	0.0532	5.58	1
11031	OCDF	39001-02-0	204	B	0.0498	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5DN-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309773
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:10

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9908 SDG#: DX099-08MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 18:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0220	J	0.0180	1.09	1
11031	12378-PeCDD	40321-76-4	0.142	J	0.0191	5.45	1
11031	123478-HxCDD	39227-28-6	0.142	JQ	0.0235	5.45	1
11031	123678-HxCDD	57653-85-7	0.162	JB	0.0242	5.45	1
11031	123789-HxCDD	19408-74-3	0.172	JB	0.0229	5.45	1
11031	1234678-HpCDD	35822-46-9	0.691	JB	0.0389	5.45	1
11031	OCDD	3268-87-9	1.72	JB	0.0316	10.9	1
11031	2378-TCDF	51207-31-9	0.0368	JQ	0.0129	1.09	1
11031	12378-PeCDF	57117-41-6	0.164	JBQ	0.00812	5.45	1
11031	23478-PeCDF	57117-31-4	0.157	JB	0.00768	5.45	1
11031	123478-HxCDF	70648-26-9	0.162	JB	0.0174	5.45	1
11031	123678-HxCDF	57117-44-9	0.146	JB	0.0162	5.45	1
11031	123789-HxCDF	72918-21-9	0.158	JB	0.0165	5.45	1
11031	234678-HxCDF	60851-34-5	0.133	JB	0.0156	5.45	1
11031	1234678-HpCDF	67562-39-4	0.180	JBQ	0.0157	5.45	1
11031	1234789-HpCDF	55673-89-7	0.153	JBQ	0.0208	5.45	1
11031	OCDF	39001-02-0	0.421	JB	0.0375	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA5DN-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DN-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DN-SB-19.0-20.0

LLI Sample # SW 6309774
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:30

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9909 SDG#: DX099-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 19:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402A	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0247	J	0.0192	1.15	1
11031	12378-PeCDD	40321-76-4	0.0763	J	0.0267	5.74	1
11031	123478-HxCDD	39227-28-6	0.0531	JQ	0.0382	5.74	1
11031	123678-HxCDD	57653-85-7	0.438	JB	0.0402	5.74	1
11031	123789-HxCDD	19408-74-3	0.538	JB	0.0371	5.74	1
11031	1234678-HpCDD	35822-46-9	5.44	JB	0.0546	5.74	1
11031	OCDD	3268-87-9	57.7	B	0.0490	11.5	1
11031	2378-TCDF	51207-31-9	0.0286	U	0.0286	1.15	1
11031	12378-PeCDF	57117-41-6	0.156	JB	0.0153	5.74	1
11031	23478-PeCDF	57117-31-4	0.194	JB	0.0150	5.74	1
11031	123478-HxCDF	70648-26-9	0.0257	U	0.0257	5.74	1
11031	123678-HxCDF	57117-44-9	0.0812	JBQ	0.0248	5.74	1
11031	123789-HxCDF	72918-21-9	0.693	JB	0.0271	5.74	1
11031	234678-HxCDF	60851-34-5	0.0604	JB	0.0256	5.74	1
11031	1234678-HpCDF	67562-39-4	0.462	JB	0.0263	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0713	JB	0.0334	5.74	1
11031	OCDF	39001-02-0	1.49	JB	0.0566	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309775
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9910 SDG#: DX099-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 20:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0148 U	0.0148	1.08	1
11031	12378-PeCDD	40321-76-4	0.0168 U	0.0168	5.40	1
11031	123478-HxCDD	39227-28-6	0.0157 U	0.0157	5.40	1
11031	123678-HxCDD	57653-85-7	0.0473 JBQ	0.0166	5.40	1
11031	123789-HxCDD	19408-74-3	0.0568 JBQ	0.0153	5.40	1
11031	1234678-HpCDD	35822-46-9	1.72 JB	0.0369	5.40	1
11031	OCDD	3268-87-9	34.5 B	0.0375	10.8	1
11031	2378-TCDF	51207-31-9	0.0131 U	0.0131	1.08	1
11031	12378-PeCDF	57117-41-6	0.0180 JBQ	0.00752	5.40	1
11031	23478-PeCDF	57117-31-4	0.0432 JB	0.00709	5.40	1
11031	123478-HxCDF	70648-26-9	0.0139 JBQ	0.00796	5.40	1
11031	123678-HxCDF	57117-44-9	0.00742 U	0.00742	5.40	1
11031	123789-HxCDF	72918-21-9	0.0265 JBQ	0.00796	5.40	1
11031	234678-HxCDF	60851-34-5	0.0277 JBQ	0.00742	5.40	1
11031	1234678-HpCDF	67562-39-4	0.0796 JB	0.0109	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0388 JB	0.0136	5.40	1
11031	OCDF	39001-02-0	0.327 JB	0.0301	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5DN-SB-17.0-18.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DN-SB-17.0-18.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DN-SB-17.0-18.0

LLI Sample # SW 6309776
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 11:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9911 SDG#: DX099-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 20:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0197 U	0.0197	1.16	1
11031	12378-PeCDD	40321-76-4	0.0336 JQ	0.0177	5.79	1
11031	123478-HxCDD	39227-28-6	0.0218 JQ	0.0193	5.79	1
11031	123678-HxCDD	57653-85-7	0.114 JBQ	0.0199	5.79	1
11031	123789-HxCDD	19408-74-3	0.138 JB	0.0181	5.79	1
11031	1234678-HpCDD	35822-46-9	2.69 JB	0.0449	5.79	1
11031	OCDD	3268-87-9	25.8 B	0.0360	11.6	1
11031	2378-TCDF	51207-31-9	0.0190 U	0.0190	1.16	1
11031	12378-PeCDF	57117-41-6	0.0243 JBQ	0.00989	5.79	1
11031	23478-PeCDF	57117-31-4	0.0394 JB	0.00919	5.79	1
11031	123478-HxCDF	70648-26-9	0.0231 JBQ	0.0120	5.79	1
11031	123678-HxCDF	57117-44-9	0.0167 JB	0.0112	5.79	1
11031	123789-HxCDF	72918-21-9	0.109 JB	0.0126	5.79	1
11031	234678-HxCDF	60851-34-5	0.0124 JBQ	0.0114	5.79	1
11031	1234678-HpCDF	67562-39-4	0.103 JBQ	0.0118	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0307 JBQ	0.0147	5.79	1
11031	OCDF	39001-02-0	0.280 JB	0.0392	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-4.0-5.0

LLI Sample # SW 6309777
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:35

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9912 SDG#: DX099-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 21:55	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0283	J	0.0157	1.14	1
11031	12378-PeCDD	40321-76-4	0.0243	JQ	0.0181	5.71	1
11031	123478-HxCDD	39227-28-6	0.0200	J	0.0167	5.71	1
11031	123678-HxCDD	57653-85-7	0.0788	JBQ	0.0179	5.71	1
11031	123789-HxCDD	19408-74-3	0.0600	JB	0.0172	5.71	1
11031	1234678-HpCDD	35822-46-9	3.30	JB	0.0420	5.71	1
11031	OCDD	3268-87-9	40.6	B	0.0308	11.4	1
11031	2378-TCDF	51207-31-9	0.0165	U	0.0165	1.14	1
11031	12378-PeCDF	57117-41-6	0.0249	JBQ	0.00797	5.71	1
11031	23478-PeCDF	57117-31-4	0.0387	JBQ	0.00739	5.71	1
11031	123478-HxCDF	70648-26-9	0.0269	JBQ	0.0103	5.71	1
11031	123678-HxCDF	57117-44-9	0.0102	JB	0.00958	5.71	1
11031	123789-HxCDF	72918-21-9	0.0221	JBQ	0.00970	5.71	1
11031	234678-HxCDF	60851-34-5	0.0178	JBQ	0.00912	5.71	1
11031	1234678-HpCDF	67562-39-4	0.130	JBQ	0.0121	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0171	U	0.0171	5.71	1
11031	OCDF	39001-02-0	0.328	JB	0.0352	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-036-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DN-SB-9.0-10.0

LLI Sample # SW 6309778
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:45

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9913 SDG#: DX099-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 22:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0271	JQ	0.0158	1.11	1
11031	12378-PeCDD	40321-76-4	0.0690	JQ	0.0174	5.53	1
11031	123478-HxCDD	39227-28-6	0.0484	JQ	0.0197	5.53	1
11031	123678-HxCDD	57653-85-7	0.149	JB	0.0211	5.53	1
11031	123789-HxCDD	19408-74-3	0.229	JB	0.0196	5.53	1
11031	1234678-HpCDD	35822-46-9	2.24	JB	0.0372	5.53	1
11031	OCDD	3268-87-9	20.1	B	0.0326	11.1	1
11031	2378-TCDF	51207-31-9	0.0257	JQ	0.0133	1.11	1
11031	12378-PeCDF	57117-41-6	0.120	JB	0.00904	5.53	1
11031	23478-PeCDF	57117-31-4	0.0851	JBQ	0.00835	5.53	1
11031	123478-HxCDF	70648-26-9	0.0678	JB	0.0133	5.53	1
11031	123678-HxCDF	57117-44-9	0.0735	JBQ	0.0121	5.53	1
11031	123789-HxCDF	72918-21-9	0.265	JB	0.0130	5.53	1
11031	234678-HxCDF	60851-34-5	0.0427	JB	0.0121	5.53	1
11031	1234678-HpCDF	67562-39-4	0.107	JB	0.0109	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0576	JB	0.0144	5.53	1
11031	OCDF	39001-02-0	0.216	JB	0.0265	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP13-SA5DN-QC-060711 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5DN-QC-060711

LLI Sample # SW 6309779
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9914 SDG#: DX099-14FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/22/2011 23:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0498	J	0.0157	1.05	1
11031	12378-PeCDD	40321-76-4	0.286	J	0.0256	5.27	1
11031	123478-HxCDD	39227-28-6	0.0738	JQ	0.0214	5.27	1
11031	123678-HxCDD	57653-85-7	0.966	JB	0.0225	5.27	1
11031	123789-HxCDD	19408-74-3	1.68	JB	0.0208	5.27	1
11031	1234678-HpCDD	35822-46-9	0.711	JB	0.0292	5.27	1
11031	OCDD	3268-87-9	2.40	JB	0.0281	10.5	1
11031	2378-TCDF	51207-31-9	0.0758	JQ	0.0229	1.05	1
11031	12378-PeCDF	57117-41-6	0.311	JB	0.0119	5.27	1
11031	23478-PeCDF	57117-31-4	0.218	JBQ	0.0111	5.27	1
11031	123478-HxCDF	70648-26-9	0.127	JB	0.0178	5.27	1
11031	123678-HxCDF	57117-44-9	0.186	JB	0.0164	5.27	1
11031	123789-HxCDF	72918-21-9	0.391	JB	0.0172	5.27	1
11031	234678-HxCDF	60851-34-5	0.0848	JB	0.0173	5.27	1
11031	1234678-HpCDF	67562-39-4	0.134	JB	0.0100	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0427	JBQ	0.0135	5.27	1
11031	OCDF	39001-02-0	0.192	JB	0.0248	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	67	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA8N-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA8N-SB-2.0-3.0

LLI Sample # SW 6309780
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 09:05

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9915 SDG#: DX099-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 00:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0224	U	0.0224	1.08	1
11031	12378-PeCDD	40321-76-4	0.155	JQ	0.0274	5.38	1
11031	123478-HxCDD	39227-28-6	0.0779	JQ	0.0237	5.38	1
11031	123678-HxCDD	57653-85-7	0.128	JB	0.0235	5.38	1
11031	123789-HxCDD	19408-74-3	0.176	JBQ	0.0223	5.38	1
11031	1234678-HpCDD	35822-46-9	1.02	JB	0.0416	5.38	1
11031	OCDD	3268-87-9	7.69	JB	0.0291	10.8	1
11031	2378-TCDF	51207-31-9	0.0932	JQ	0.0304	1.08	1
11031	12378-PeCDF	57117-41-6	0.248	JBQ	0.0168	5.38	1
11031	23478-PeCDF	57117-31-4	0.245	JB	0.0156	5.38	1
11031	123478-HxCDF	70648-26-9	0.165	JBQ	0.0168	5.38	1
11031	123678-HxCDF	57117-44-9	0.122	JB	0.0156	5.38	1
11031	123789-HxCDF	72918-21-9	0.0967	JBQ	0.0175	5.38	1
11031	234678-HxCDF	60851-34-5	0.0862	JBQ	0.0157	5.38	1
11031	1234678-HpCDF	67562-39-4	0.229	JB	0.0137	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0335	JBQ	0.0197	5.38	1
11031	OCDF	39001-02-0	0.341	JB	0.0314	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA8N-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-122-SA8N-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA8N-SB-2.0-3.0

LLI Sample # SW 6309781
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 14:00

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9916 SDG#: DX099-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 01:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0696	J	0.0167	1.13	1
11031	12378-PeCDD	40321-76-4	0.167	J	0.0283	5.66	1
11031	123478-HxCDD	39227-28-6	0.206	J	0.0657	5.66	1
11031	123678-HxCDD	57653-85-7	0.318	JB	0.0691	5.66	1
11031	123789-HxCDD	19408-74-3	0.372	JB	0.0656	5.66	1
11031	1234678-HpCDD	35822-46-9	5.03	JB	0.0617	5.66	1
11031	OCDD	3268-87-9	22.1	B	0.0595	11.3	1
11031	2378-TCDF	51207-31-9	0.0629	JQ	0.0198	1.13	1
11031	12378-PeCDF	57117-41-6	0.184	JB	0.0121	5.66	1
11031	23478-PeCDF	57117-31-4	0.129	JB	0.0112	5.66	1
11031	123478-HxCDF	70648-26-9	0.150	JB	0.0238	5.66	1
11031	123678-HxCDF	57117-44-9	0.0935	JB	0.0216	5.66	1
11031	123789-HxCDF	72918-21-9	0.217	JBQ	0.0255	5.66	1
11031	234678-HxCDF	60851-34-5	0.0687	JB	0.0218	5.66	1
11031	1234678-HpCDF	67562-39-4	0.287	JBQ	0.0263	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0804	JBQ	0.0396	5.66	1
11031	OCDF	39001-02-0	0.600	JB	0.0491	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA8N-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA8N-SB-3.0-4.0

LLI Sample # SW 6309782
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/07/2011 15:20

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9917 SDG#: DX099-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 05:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309783
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9918 SDG#: DX099-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309783
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9918 SDG#: DX099-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0159	U	0.0159	1.14	1
11031	12378-PeCDD	40321-76-4	0.0196	JQ	0.0176	5.70	1
11031	123478-HxCDD	39227-28-6	0.0480	JQ	0.0304	5.70	1
11031	123678-HxCDD	57653-85-7	0.0711	JBQ	0.0310	5.70	1
11031	123789-HxCDD	19408-74-3	0.123	JBQ	0.0298	5.70	1
11031	1234678-HpCDD	35822-46-9	1.54	JB	0.0558	5.70	1
11031	OCDD	3268-87-9	14.5	B	0.0353	11.4	1
11031	2378-TCDF	51207-31-9	0.244	J	0.0747	1.14	1
11031	12378-PeCDF	57117-41-6	0.228	JB	0.0178	5.70	1
11031	23478-PeCDF	57117-31-4	0.0910	JBQ	0.0163	5.70	1
11031	123478-HxCDF	70648-26-9	0.102	JBQ	0.0201	5.70	1
11031	123678-HxCDF	57117-44-9	0.0497	JB	0.0183	5.70	1
11031	123789-HxCDF	72918-21-9	0.0592	JB	0.0213	5.70	1
11031	234678-HxCDF	60851-34-5	0.0439	JB	0.0191	5.70	1
11031	1234678-HpCDF	67562-39-4	0.375	JB	0.0224	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0678	JB	0.0337	5.70	1
11031	OCDF	39001-02-0	0.886	JB	0.0489	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

LLI Sample # SW 6309783
LLI Group # 1250463
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/06/2011 17:15

Submitted: 06/08/2011 09:30
Reported: 06/24/2011 23:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X9918 SDG#: DX099-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-133-SA8N-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA8N-SB-7.0-8.0

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X9918 SDG#: DX099-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11169001	06/23/2011 06:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11169001	06/18/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162402B	06/23/2011 21:14	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250463
Reported: 06/24/11 at 11:46 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162402A	Sample number(s): 6309771-6309774								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162402B	Sample number(s): 6309775-6309783								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11169001	Sample number(s): 6309771-6309783								
2378-TCDD	0.0186 U	0.0186	1.00	ng/kg	85		67-158		
12378-PeCDD	0.0176 U	0.0176	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0267 U	0.0267	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0621 J	0.0282	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0839 J	0.0266	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.479 J	0.0498	5.00	ng/kg	90		70-140		
OCDD	1.04 J	0.0434	10.0	ng/kg	92		78-144		
2378-TCDF	0.0135 U	0.0135	1.00	ng/kg	90		75-158		
12378-PeCDF	0.0277 J	0.00790	5.00	ng/kg	89		80-134		
23478-PeCDF	0.0481 J	0.00740	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0392 J	0.0142	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0252 J	0.0128	5.00	ng/kg	92		84-130		
123789-HxCDF	0.0457 J	0.0144	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0179 J	0.0126	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0762 J	0.0192	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0506 J	0.0260	5.00	ng/kg	92		78-138		
OCDF	0.246 J	0.0420	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162402A	Sample number(s): 6309771-6309774					BKG: P309733			
Moisture Content by 160.3						12.2	12.2	1	20
Batch number: 11174162402B	Sample number(s): 6309775-6309783					BKG: P309741			
Moisture Content by 160.3						13.4	13.0	3	20
Batch number: 11169001	Sample number(s): 6309771-6309783					UNSPK: 6309771			
2378-TCDD	83	84	67-158	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250463
Reported: 06/24/11 at 11:46 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	89	90	70-142	1	25				
123478-HxCDD	91	90	70-164	0	25				
123678-HxCDD	88	90	76-134	3	25				
123789-HxCDD	89	89	64-162	0	25				
1234678-HpCDD	88	89	70-140	1	25				
OCDD	89	86	78-144	4	25				
2378-TCDF	88	87	75-158	1	25				
12378-PeCDF	88	89	80-134	2	25				
23478-PeCDF	87	89	68-160	2	25				
123478-HxCDF	91	90	72-134	0	25				
123678-HxCDF	89	90	84-130	1	25				
123789-HxCDF	90	93	78-130	3	25				
234678-HxCDF	91	92	70-156	1	25				
1234678-HpCDF	88	89	82-122	1	25				
1234789-HpCDF	90	90	78-138	0	25				
OCDF	91	91	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11169001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6309771	63	69	71	76	74	82
6309772	60	65	64	67	71	74
6309773	65	69	71	77	75	80
6309774	66	68	73	75	75	83
6309775	86	81	84	87	87	92
6309776	73	73	76	79	78	88
6309777	67	68	71	75	73	78
6309778	65	66	69	72	71	77
6309779	66	67	70	74	74	81
6309780	70	69	73	76	74	84
6309781	67	68	70	74	72	79
6309782	70	69	71	76	75	76
6309783	67	68	72	76	73	79
Blank	66	70	74	79	78	78
MS	60	65	64	67	71	74
MSD	65	69	71	77	75	80
OPR	64	68	70	77	76	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6309771	82	72	66	84	71	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250463
Reported: 06/24/11 at 11:46 PM

Surrogate Quality Control

6309772	78	69	65	81	67	73
6309773	87	73	68	85	73	79
6309774	81	75	70	84	71	77
6309775	87	84	78	95	85	89
6309776	83	78	74	86	77	82
6309777	77	72	67	84	71	76
6309778	82	68	62	84	69	73
6309779	79	72	67	85	70	77
6309780	82	72	67	85	72	77
6309781	81	68	64	82	71	75
6309782	84	68	62	83	72	78
6309783	85	68	62	82	71	75
Blank	88	76	71	91	72	81
MS	78	69	65	81	67	73
MSD	87	73	68	85	73	79
OPR	91	71	66	84	72	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6309771	74	76	77	73	59	69
6309772	72	75	76	74	55	65
6309773	77	81	84	78	61	71
6309774	76	77	83	76	61	68
6309775	86	89	88	83	80	83
6309776	78	82	84	80	69	75
6309777	74	77	78	74	62	68
6309778	73	74	76	71	61	68
6309779	74	77	78	74	62	69
6309780	75	77	79	74	67	71
6309781	73	76	77	74	63	68
6309782	75	77	75	73	66	71
6309783	74	76	77	71	62	70
Blank	79	82	83	81	62	70
MS	72	75	76	74	55	65
MSD	77	81	84	78	61	71
OPR	78	81	83	80	59	71
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1250463 Sample# 6309771-83

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Ann Lw 6-7-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-024-SA5DN-SB-4.5MS	06.07.11	0855	SOIL	NONE	15-Encores										X	X	X										
SL-024-SA5DN-SB-4.0-5.0MS	06.07.11	0910	SOIL	NONE	12-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-024-SA5DN-SB-19.5	06.07.11	0925	SOIL	NONE	5-Encores										X	X	X										MS/MSD
SL-024-SA5DN-SB-19.0-20.0	06.07.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-4.5	06.07.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-4.0-5.0	06.07.11	1135	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-026-SA5DN-SB-17.5	06.07.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-026-SA5DN-SB-17.0-18.0	06.07.11	1145	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-4.5	06.07.11	1430	SOIL	NONE	5-Encores										X	X	X										
SL-036-SA5DN-SB-4.0-5.0	06.07.11	1435	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-036-SA5DN-SB-9.5	06.07.11	1440	SOIL	NONE	5-Encores										X	X	X										
SL-036-SA5DN-SB-9.0-10.0	06.07.11	1445	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP13-SA5DN-QC-060711	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
DUP13-SA5DN-QC-060711	06.07.11	0920	SOIL	NONE	4-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	06/07/2011 / 1700		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	6/8/11 0930	8754 3339 9165; 9176, 9187,9198	

acct#13013 Cap#1250463 Sample#6309771-83

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-071-SA8N-SB-2.5	06.07.11	0900	SOIL	NONE	5-Encores										X	X	X										
SL-071-SA8N-SB-2.0-3.0	06.07.11	0905	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-122-SA8N-SB-2.5	06.07.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-122-SA8N-SB-2.0-3.0	06.07.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-140-SA8N-SB-3.5	06.07.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-140-SA8N-SB-3.0-4.0	06.07.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-133-SA8N-SB-7.5	06.06.11	1710	SOIL	NONE	5-Encores										X	X	X										
SL-133-SA8N-SB-7.0-8.0	06.06.11	1715	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060711	06.07.11		WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700	Received for Laboratory by: (*Signature*)	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0930	Airbill No.(s) 8754 3339 9165; 9176, 9187,9198	

acct#13013 Gp#1250463 sample#6309771-83

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					VOCs	SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers											
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	1-250mL Glass				X							
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NaOH	1-500 poly							X				
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	HCL	5-40mL Vials	X									X	
EB15-SA5DN-SB-060711	06.07.11	1300	WATER	NONE	4-40mL Vials			X						X		
Relinquished by: (*Signature*)	Date/Time 06/07/2011 / 1700		Received for Laboratory by: (*Signature*)													Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 6/8/11 0930		Airbill No.(s) 8754 3339 9165; 9176, 9187													

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/09/2011
Group Number: 1250632
SDG: DE176
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA5DN-SB-4.0-5.0 Soil	6310767
SL-023-SA5DN-SB-20.0-21.0 Soil	6310768
SL-025-SA5DN-SB-4.0-5.0 Soil	6310769
SL-025-SA5DN-SB-23.0-24.0 Soil	6310770
SL-028-SA5DN-SB-4.0-5.0 Soil	6310771
SL-028-SA5DN-SB-11.5-12.5 Soil	6310772
SL-051-SA5DN-SB-4.0-5.0 Soil	6310773
SL-051-SA5DN-SB-14.0-15.0 Soil	6310774
SL-076-SA8N-SB-4.0-5.0 Soil	6310775
SL-076-SA8N-SB-4.0-5.0MS Soil	6310776
SL-076-SA8N-SB-4.0-5.0MSD Soil	6310777
SL-076-SA8N-SB-4.0-5.0DUP Soil	6310778
SL-076-SA8N-SB-7.5-8.5 Soil	6310779
SL-106-SA8N-SB-2.5-3.5 Soil	6310780
SL-109-SA8N-SB-4.0-5.0 Soil	6310781
SL-109-SA8N-SB-9.0-10.0 Soil	6310782
DUP10-SA8N-QC-060811 Soil	6310783
TB-060811 Water	6310784
EB16-SA8N-SB-060811 Water	6310785

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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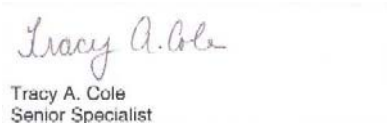
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Tracy A. Cole
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.3		6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.12	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	34.3	J	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylnaphthalene	91-57-6	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	10	J	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.15
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

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Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	1.6		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.3	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		6.86	22.7		1
07914	Boron	7440-42-8	8.87		0.408	5.67		1
01650	Calcium	7440-70-2	13,900		2.83	22.7		1
01654	Iron	7439-89-6	33,400		14.8	113		5
01656	Lithium	7439-93-2	26.5		0.70	2.3		1
01657	Magnesium	7439-95-4	6,920		0.499	11.3		1
06958	Manganese	7439-96-5	362		0.0408	0.567		1
10145	Phosphorus	7723-14-0	308		0.397	11.3		1
01662	Potassium	7440-09-7	3,550		12.8	56.7		1
01667	Sodium	7440-23-5	463		6.75	113		1
07968	Strontium	7440-24-6	43.4		0.0283	0.567		1
06969	Tin	7440-31-5	2.71	J	0.363	11.3		1
06970	Titanium	7440-32-6	1,050		0.0805	1.13		1
10146	Zirconium	7440-67-7	4.26	J	0.522	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.361		0.0815	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.03		0.0881	0.440		2
06126	Barium	7440-39-3	168		0.117	0.440		2
06127	Beryllium	7440-41-7	1.06		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.320		0.0484	0.110		2
06131	Chromium	7440-47-3	35.4		0.132	0.440		2
06132	Cobalt	7440-48-4	12.6		0.0220	0.110		2
06133	Copper	7440-50-8	20.5		0.0881	0.440		2
06135	Lead	7439-92-1	12.6		0.0112	0.220		2
06138	Molybdenum	7439-98-7	0.592		0.0550	0.110		2
06139	Nickel	7440-02-0	26.7		0.110	0.440		2
06141	Selenium	7782-49-2	0.119	J	0.0638	0.440		2
06142	Silver	7440-22-4	0.0545	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.400		0.0330	0.110		2
06148	Vanadium	7440-62-2	64.2		0.0242	0.110		2
06149	Zinc	7440-66-6	94.6		0.616	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 15:39	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 09:03	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:55	Christopher D Meeks	n.a.

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:02	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 19:11	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 17:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 14:14	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 15:46	Marie D John	21.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:02	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/16/2011 23:22	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:00	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 21:14	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 08:58	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:35	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:02	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 16:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:17	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1

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Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310767
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17601 SDG#: DE176-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 16:44	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 16:56	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:11	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3		6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	1.5	J	0.24	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.89
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	44.2		18.1	36.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
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17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.70	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.44	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

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17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,300		6.45	21.3		1
07914	Boron	7440-42-8	5.33	J	0.384	5.33		1
01650	Calcium	7440-70-2	4,830		2.67	21.3		1
01654	Iron	7439-89-6	26,700		2.78	21.3		1
01656	Lithium	7439-93-2	29.7		0.66	2.1		1
01657	Magnesium	7439-95-4	5,700		0.469	10.7		1
06958	Manganese	7439-96-5	259		0.0384	0.533		1
10145	Phosphorus	7723-14-0	409		0.373	10.7		1
01662	Potassium	7440-09-7	3,210		12.1	53.3		1
01667	Sodium	7440-23-5	250		6.35	107		1
07968	Strontium	7440-24-6	32.1		0.0267	0.533		1
06969	Tin	7440-31-5	2.48	J	0.341	10.7		1
06970	Titanium	7440-32-6	1,290		0.0757	1.07		1
10146	Zirconium	7440-67-7	3.18	J	0.491	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.323		0.0790	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.43		0.0854	0.427		2
06126	Barium	7440-39-3	152		0.113	0.427		2
06127	Beryllium	7440-41-7	1.06		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.135		0.0469	0.107		2
06131	Chromium	7440-47-3	34.5		0.128	0.427		2
06132	Cobalt	7440-48-4	17.3		0.0213	0.107		2
06133	Copper	7440-50-8	21.8		0.0854	0.427		2
06135	Lead	7439-92-1	11.1		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.763		0.0533	0.107		2
06139	Nickel	7440-02-0	31.2		0.107	0.427		2
06141	Selenium	7782-49-2	0.0619	U	0.0619	0.427		2
06142	Silver	7440-22-4	0.104	J	0.0151	0.107		2

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.480	0.0320	0.107		2
06148	Vanadium	7440-62-2	59.0	0.0235	0.107		2
06149	Zinc	7440-66-6	92.3	0.597	3.20		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6	0.88	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA5DN-SB-20.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 16:02	Chelsea B Eastep	0.89

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 09:24	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:05	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:05	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 19:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 18:15	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 14:54	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 16:23	Marie D John	20.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:05	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 00:04	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:10	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:11	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 21:32	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 09:23	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 00:50	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 16:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1

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Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/20/2011 00:27	David K Beck	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 17:31	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:01	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:12	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310768
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17602 SDG#: DE176-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.87
06192	Methylene Chloride	75-09-2	1.5	J	0.24	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

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Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.16	J	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	44.9		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1

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GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.5
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	1.2	J	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.45	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1

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GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,600		6.77	22.4		1
07914	Boron	7440-42-8	9.54		0.403	5.59		1
01650	Calcium	7440-70-2	27,100		2.80	22.4		1
01654	Iron	7439-89-6	34,700		14.6	112		5
01656	Lithium	7439-93-2	28.6		0.69	2.2		1
01657	Magnesium	7439-95-4	7,340		0.492	11.2		1
06958	Manganese	7439-96-5	660		0.0403	0.559		1
10145	Phosphorus	7723-14-0	208		0.392	11.2		1
01662	Potassium	7440-09-7	2,620		12.6	55.9		1
01667	Sodium	7440-23-5	410		6.66	112		1
07968	Strontium	7440-24-6	47.2		0.0280	0.559		1
06969	Tin	7440-31-5	2.59	J	0.358	11.2		1
06970	Titanium	7440-32-6	1,220		0.0794	1.12		1
10146	Zirconium	7440-67-7	3.61	J	0.515	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.465		0.0828	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0895	0.448		2
06126	Barium	7440-39-3	173		0.296	1.12		5
06127	Beryllium	7440-41-7	1.57		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.324		0.0492	0.112		2
06131	Chromium	7440-47-3	42.5		0.134	0.448		2
06132	Cobalt	7440-48-4	23.6		0.0224	0.112		2
06133	Copper	7440-50-8	24.3		0.0895	0.448		2
06135	Lead	7439-92-1	14.8		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.559		0.0559	0.112		2
06139	Nickel	7440-02-0	45.0		0.112	0.448		2
06141	Selenium	7782-49-2	0.0811	J	0.0649	0.448		2
06142	Silver	7440-22-4	0.0468	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.468		0.0336	0.112		2
06148	Vanadium	7440-62-2	75.0		0.0246	0.112		2
06149	Zinc	7440-66-6	86.9		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1

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Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.06		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 16:24	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 09:44	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:09	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:08	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 19:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 18:41	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 15:34	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 16:59	Marie D John	23.5
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:08	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 00:46	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:19	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 21:51	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 09:48	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:05	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 17:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:21	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310769
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17603 SDG#: DE176-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:25	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 17:54	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:24	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.5		7.2	8.6		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.97
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.97
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.97
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.97
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.97
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.97
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.97
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.97
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.97
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.97
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.97
06192	Methylene Chloride	75-09-2	1.8	J	0.26	4.3		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.97

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Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.97
06192	Toluene	108-88-3	0.19	J	0.09	4.3		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.97
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.97
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.97
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.97
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.97
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	49.8		18.4	36.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.45
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.49	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	1.4		0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1

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LLI Sample # SW 6310770
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Project Name: SSFL Area IV Collocated Soil Sampling

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17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.46	21.3		1
07914	Boron	7440-42-8	3.75	J	0.384	5.34		1
01650	Calcium	7440-70-2	4,470		2.67	21.3		1
01654	Iron	7439-89-6	19,500		2.79	21.3		1
01656	Lithium	7439-93-2	19.7		0.66	2.1		1
01657	Magnesium	7439-95-4	3,980		0.470	10.7		1
06958	Manganese	7439-96-5	128		0.0384	0.534		1
10145	Phosphorus	7723-14-0	331		0.374	10.7		1
01662	Potassium	7440-09-7	2,380		12.1	53.4		1
01667	Sodium	7440-23-5	119		6.35	107		1
07968	Strontium	7440-24-6	21.7		0.0267	0.534		1
06969	Tin	7440-31-5	2.51	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,020		0.0758	1.07		1
10146	Zirconium	7440-67-7	2.32	J	0.491	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0805	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.77		0.0870	0.435		2
06126	Barium	7440-39-3	65.0		0.115	0.435		2
06127	Beryllium	7440-41-7	0.590		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0864	J	0.0479	0.109		2
06131	Chromium	7440-47-3	20.8		0.131	0.435		2
06132	Cobalt	7440-48-4	4.17		0.0218	0.109		2
06133	Copper	7440-50-8	13.3		0.0870	0.435		2
06135	Lead	7439-92-1	5.61		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.245		0.0544	0.109		2
06139	Nickel	7440-02-0	13.6		0.109	0.435		2
06141	Selenium	7782-49-2	0.0631	U	0.0631	0.435		2
06142	Silver	7440-22-4	0.0450	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.288		0.0326	0.109		2
06148	Vanadium	7440-62-2	38.1		0.0239	0.109		2
06149	Zinc	7440-66-6	61.0		0.609	3.26		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1

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SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
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17604 SDG#: DE176-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.89	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-025-SA5DN-SB-23.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 16:46	Chelsea B Eastep	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 10:04	Jason M Long	20.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:11	Christopher D Meeks	n.a.

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17604 SDG#: DE176-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 20:06	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 19:07	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 16:14	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 17:36	Marie D John	23.45
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:11	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 01:29	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:29	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 22:09	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 10:13	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 18:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310770
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17604 SDG#: DE176-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 18:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.86
06192	Methylene Chloride	75-09-2	1.5	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.14	J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.83
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	195	U	195	390		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1

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Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	U	2.5	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.58	J	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.54	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.57	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	5.6		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	16		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.99	J	0.47	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1

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SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310771
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17605 SDG#: DE176-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,300		6.94	22.9		1
07914	Boron	7440-42-8	7.70		0.413	5.73		1
01650	Calcium	7440-70-2	8,340		2.87	22.9		1
01654	Iron	7439-89-6	32,500		15.0	115		5
01656	Lithium	7439-93-2	22.5		0.71	2.3		1
01657	Magnesium	7439-95-4	6,200		0.505	11.5		1
06958	Manganese	7439-96-5	434		0.0413	0.573		1
10145	Phosphorus	7723-14-0	276		0.401	11.5		1
01662	Potassium	7440-09-7	4,140		13.0	57.3		1
01667	Sodium	7440-23-5	507		6.82	115		1
07968	Strontium	7440-24-6	40.9		0.0287	0.573		1
06969	Tin	7440-31-5	2.84	J	0.367	11.5		1
06970	Titanium	7440-32-6	589		0.0814	1.15		1
10146	Zirconium	7440-67-7	2.07	J	0.527	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.731		0.0865	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.54		0.0936	0.468		2
06126	Barium	7440-39-3	197		0.124	0.468		2
06127	Beryllium	7440-41-7	1.06		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.414		0.0515	0.117		2
06131	Chromium	7440-47-3	48.2		0.140	0.468		2
06132	Cobalt	7440-48-4	14.9		0.0234	0.117		2
06133	Copper	7440-50-8	53.1		0.0936	0.468		2
06135	Lead	7439-92-1	13.4		0.0119	0.234		2
06138	Molybdenum	7439-98-7	2.30		0.0585	0.117		2
06139	Nickel	7440-02-0	38.9		0.117	0.468		2
06141	Selenium	7782-49-2	0.247	J	0.0678	0.468		2
06142	Silver	7440-22-4	0.108	J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.483		0.0351	0.117		2
06148	Vanadium	7440-62-2	65.6		0.0257	0.117		2
06149	Zinc	7440-66-6	97.1		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-SA5DN-SB-23.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 17:08	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 10:24	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:15	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 20:24	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 19:34	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 16:53	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 18:12	Marie D John	20.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:15	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 02:11	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:38	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:17	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 22:28	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 14:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:34	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 16:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 07:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:24	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 18:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 17:47	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.5		7.6	9.1		1.01
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.01
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.01
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.5		1.01
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.01
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.01
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.01
06192	2-Butanone	78-93-3	1.4	U	1.4	9.1		1.01
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.01
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.01
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.01
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.01
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.5		1.01
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.01
06192	Chloroform	67-66-3	0.14	U	0.14	4.5		1.01
06192	Chloromethane	74-87-3	0.38	U	0.38	4.5		1.01
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.01
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.01
06192	Chlorotrifluoroethene	79-38-9	0.57	U	0.57	5.7		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80	U	0.80	4.5		1.01
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.5		1.01
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.01
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.01
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.01
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.01
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.01
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.5		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.01
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.01
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.01
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.01
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.01
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.01
06192	Freon 113	76-13-1	0.13	U	0.13	4.5		1.01
06192	Freon 133a	75-88-7	0.57	U	0.57	5.7		1.01
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.01
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.1		1.01
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.01
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.5		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.1		1.01
06192	Methylene Chloride	75-09-2	1.7	J	0.27	4.5		1.01
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.01

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Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.5		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.01
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.5		1.01
06192	Toluene	108-88-3	0.14	J	0.09	4.5		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.5		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.5		1.01
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.01
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.5		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.01
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.5		1.01
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.01
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.01
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.7	U	5.7	17		25.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	371		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1

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Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)anthracene	56-55-3	0.79	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.7		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	12	J	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.2		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.4	J	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1

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Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.6	U	5.6	18		5
10225	Aroclor 5442	12642-23-8	5.6	U	5.6	18		5
10225	Aroclor 5460	11126-42-4	5.6	U	5.6	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4		5
10225	PCB-1248	12672-29-6	120		1.8	9.4		5
10225	PCB-1254	11097-69-1	77		1.8	9.4		5
10225	PCB-1260	11096-82-5	11		2.2	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	3.0		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	24		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	56		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.45	1.3		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		6.58	21.7		1
07914	Boron	7440-42-8	6.60		0.391	5.44		1
01650	Calcium	7440-70-2	16,100		2.72	21.7		1
01654	Iron	7439-89-6	26,200		2.84	21.7		1
01656	Lithium	7439-93-2	20.8		0.67	2.2		1
01657	Magnesium	7439-95-4	4,980		0.478	10.9		1
06958	Manganese	7439-96-5	330		0.0391	0.544		1
10145	Phosphorus	7723-14-0	409		0.381	10.9		1
01662	Potassium	7440-09-7	2,630		12.3	54.4		1
01667	Sodium	7440-23-5	444		6.47	109		1
07968	Strontium	7440-24-6	40.1		0.0272	0.544		1
06969	Tin	7440-31-5	2.45	J	0.348	10.9		1
06970	Titanium	7440-32-6	1,120		0.0772	1.09		1
10146	Zirconium	7440-67-7	3.69	J	0.500	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.405		0.0797	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.50		0.0861	0.431		2
06126	Barium	7440-39-3	169		0.114	0.431		2
06127	Beryllium	7440-41-7	0.714		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.207		0.0474	0.108		2
06131	Chromium	7440-47-3	32.2		0.129	0.431		2
06132	Cobalt	7440-48-4	8.61		0.0215	0.108		2
06133	Copper	7440-50-8	20.7		0.0861	0.431		2
06135	Lead	7439-92-1	8.14		0.0110	0.215		2
06138	Molybdenum	7439-98-7	1.11		0.0538	0.108		2
06139	Nickel	7440-02-0	21.6		0.108	0.431		2
06141	Selenium	7782-49-2	0.130	J	0.0625	0.431		2
06142	Silver	7440-22-4	0.0501	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.317		0.0323	0.108		2
06148	Vanadium	7440-62-2	79.6		0.0237	0.108		2
06149	Zinc	7440-66-6	60.3		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075 U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0	0.90	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-028-SA5DN-SB-12.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 17:31	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 10:44	Jason M Long	25.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 20:43	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 20:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 17:33	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 18:49	Marie D John	25.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:18	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 02:54	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 00:57	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 22:46	Sarah M Snyder	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 15:36	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 01:49	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:06	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 03:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1

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Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310772
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17606 SDG#: DE176-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 17:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 17:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 19:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 18:04	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.1		7.3	8.7		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.96
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.96
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.96
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.96
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.96
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.4		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.96
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.4		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.4		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.4		0.96
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.96
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.96
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		0.96
06192	Methylene Chloride	75-09-2	1.4	J	0.26	4.4		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.96

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.96
06192	Toluene	108-88-3	0.15	J	0.09	4.4		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.4		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.96
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.4		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.4		0.96
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		22.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	29.0	J	18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.85
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.55	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	6.7		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,200		6.86	22.7		1
07914	Boron	7440-42-8	8.42		0.408	5.67		1
01650	Calcium	7440-70-2	22,800		2.83	22.7		1
01654	Iron	7439-89-6	33,900		14.8	113		5
01656	Lithium	7439-93-2	26.8		0.70	2.3		1
01657	Magnesium	7439-95-4	6,950		0.499	11.3		1
06958	Manganese	7439-96-5	592		0.0408	0.567		1
10145	Phosphorus	7723-14-0	212		0.397	11.3		1
01662	Potassium	7440-09-7	2,790		12.8	56.7		1
01667	Sodium	7440-23-5	710		6.75	113		1
07968	Strontium	7440-24-6	49.8		0.0283	0.567		1
06969	Tin	7440-31-5	2.66	J	0.363	11.3		1
06970	Titanium	7440-32-6	930		0.0805	1.13		1
10146	Zirconium	7440-67-7	3.18	J	0.522	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.442		0.0839	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0907	0.454		2
06126	Barium	7440-39-3	168		0.300	1.13		5
06127	Beryllium	7440-41-7	1.82		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.427		0.0499	0.113		2
06131	Chromium	7440-47-3	42.9		0.136	0.454		2
06132	Cobalt	7440-48-4	17.8		0.0227	0.113		2
06133	Copper	7440-50-8	22.4		0.0907	0.454		2
06135	Lead	7439-92-1	15.2		0.0116	0.227		2
06138	Molybdenum	7439-98-7	0.488		0.0567	0.113		2
06139	Nickel	7440-02-0	40.2		0.113	0.454		2
06141	Selenium	7782-49-2	0.119	J	0.0658	0.454		2
06142	Silver	7440-22-4	0.0596	J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.500		0.0340	0.113		2
06148	Vanadium	7440-62-2	75.3		0.0249	0.113		2
06149	Zinc	7440-66-6	89.2		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	18.4	0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.8	0.91	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35 J	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-051-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 17:53	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 11:04	Jason M Long	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:23	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 21:01	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 20:27	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 18:04	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 19:26	Marie D John	21.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 05:01	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:07	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 23:05	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 13:56	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 02:04	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:18	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 02:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/21/2011 01:36	John W Yanzuk II	5
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1

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Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310773
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17607 SDG#: DE176-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:14	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:29	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 18:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 18:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 19:29	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 18:16	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:21	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.8		6.6	7.9		0.87
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	1.6	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.14	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.4	J	18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.2
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.50	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	4.3		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	9.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1

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LLI Sample # SW 6310774
LLI Group # 1250632
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17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,000		6.71	22.2		1
07914	Boron	7440-42-8	6.50		0.399	5.54		1
01650	Calcium	7440-70-2	5,530		2.77	22.2		1
01654	Iron	7439-89-6	26,500		2.89	22.2		1
01656	Lithium	7439-93-2	24.5		0.69	2.2		1
01657	Magnesium	7439-95-4	5,480		0.488	11.1		1
06958	Manganese	7439-96-5	203		0.0399	0.554		1
10145	Phosphorus	7723-14-0	293		0.388	11.1		1
01662	Potassium	7440-09-7	2,920		12.5	55.4		1
01667	Sodium	7440-23-5	330		6.59	111		1
07968	Strontium	7440-24-6	31.9		0.0277	0.554		1
06969	Tin	7440-31-5	2.50	J	0.355	11.1		1
06970	Titanium	7440-32-6	1,210		0.0787	1.11		1
10146	Zirconium	7440-67-7	3.85	J	0.510	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.316		0.0828	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.26		0.0895	0.448		2
06126	Barium	7440-39-3	137		0.119	0.448		2
06127	Beryllium	7440-41-7	0.883		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.335		0.0492	0.112		2
06131	Chromium	7440-47-3	31.9		0.134	0.448		2
06132	Cobalt	7440-48-4	12.5		0.0224	0.112		2
06133	Copper	7440-50-8	17.6		0.0895	0.448		2
06135	Lead	7439-92-1	9.94		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.606		0.0560	0.112		2
06139	Nickel	7440-02-0	28.8		0.112	0.448		2
06141	Selenium	7782-49-2	0.0649	U	0.0649	0.448		2
06142	Silver	7440-22-4	0.0477	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.425		0.0336	0.112		2
06148	Vanadium	7440-62-2	56.7		0.0246	0.112		2
06149	Zinc	7440-66-6	81.0		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1

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17608 SDG#: DE176-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.25		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-051-SA5DN-SB-14.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 18:15	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 11:24	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:26	Christopher D Meeks	n.a.

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Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 21:19	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 20:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 18:36	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 20:02	Marie D John	22.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:26	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 05:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:16	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 23:23	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 14:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111600024A	06/10/2011 02:19	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:31	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 04:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111600024A	06/09/2011 17:20	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:19	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2

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Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310774
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17608 SDG#: DE176-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 18:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 18:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 19:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 18:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.3	U	6.3	7.5		0.83
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.83
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.83
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.83
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.83
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.83
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.83
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.83
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.83
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66	U	0.66	3.7		0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.83
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.83
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.83
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.7		0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.83
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.83
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.83
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.83
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.5		0.83
06192	Methylene Chloride	75-09-2	1.3	J	0.22	3.7		0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.83

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.83
06192	Toluene	108-88-3	0.28	J	0.07	3.7		0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.83
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.83
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.83
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.83
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.94	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	3.4		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.1		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	4.8		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

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SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		6.69	22.1		1
07914	Boron	7440-42-8	4.48	J	0.398	5.53		1
01650	Calcium	7440-70-2	2,430		2.77	22.1		1
01654	Iron	7439-89-6	23,200		2.89	22.1		1
01656	Lithium	7439-93-2	31.3		0.69	2.2		1
01657	Magnesium	7439-95-4	4,360		0.487	11.1		1
06958	Manganese	7439-96-5	280		0.0398	0.553		1
10145	Phosphorus	7723-14-0	238		0.387	11.1		1
01662	Potassium	7440-09-7	2,160		12.5	55.3		1
01667	Sodium	7440-23-5	122		6.58	111		1
07968	Strontium	7440-24-6	16.8		0.0277	0.553		1
06969	Tin	7440-31-5	2.85	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,210		0.0786	1.11		1
10146	Zirconium	7440-67-7	3.47	J	0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.275		0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.52		0.0903	0.451		2
06126	Barium	7440-39-3	119		0.120	0.451		2
06127	Beryllium	7440-41-7	0.872		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0781	J	0.0497	0.113		2
06131	Chromium	7440-47-3	18.8		0.135	0.451		2
06132	Cobalt	7440-48-4	6.63		0.0226	0.113		2
06133	Copper	7440-50-8	10.2		0.0903	0.451		2
06135	Lead	7439-92-1	7.66		0.0115	0.226		2
06138	Molybdenum	7439-98-7	1.18		0.0564	0.113		2
06139	Nickel	7440-02-0	16.0		0.113	0.451		2
06141	Selenium	7782-49-2	0.127	J	0.0655	0.451		2
06142	Silver	7440-22-4	0.0697	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.333		0.0339	0.113		2
06148	Vanadium	7440-62-2	40.1		0.0248	0.113		2
06149	Zinc	7440-66-6	62.6		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
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17609 SDG#: DE176-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0242	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 18:37	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 11:44	Jason M Long	20
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

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17609 SDG#: DE176-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:29	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 17:58	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 21:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 11:55	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 21:52	Marie D John	20.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:29	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 06:26	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:26	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 10:38	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:44	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 19:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310775
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:11	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 15:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 15:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 15:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11164243201A	06/14/2011 18:33	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	150	6.4	7.6		0.84
06192	Benzene	71-43-2	20	0.09	3.8		0.84
06192	Bromobenzene	108-86-1	17	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	20	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	19	0.08	3.8		0.84
06192	Bromoform	75-25-2	17	0.38	3.8		0.84
06192	Bromomethane	74-83-9	16	0.24	3.8		0.84
06192	2-Butanone	78-93-3	130	1.2	7.6		0.84
06192	n-Butylbenzene	104-51-8	15	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	16	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	16	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	21	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	18	0.10	3.8		0.84
06192	Chloroethane	75-00-3	15	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	16	0.29	3.8		0.84
06192	Chloroform	67-66-3	21	0.11	3.8		0.84
06192	Chloromethane	74-87-3	18	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	16	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	17	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	17	0.47	4.7		0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.67	3.8		0.84
06192	Dibromochloromethane	124-48-1	18	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	18	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	18	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	17	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	16	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	16	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	18	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	21	0.09	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	21	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	22	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	19	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	20	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	19	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	21	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	20	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	18	0.06	3.8		0.84
06192	Freon 113	76-13-1	22	0.10	3.8		0.84
06192	Freon 133a	75-88-7	22	0.47	4.7		0.83
06192	Hexachlorobutadiene	87-68-3	13	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	85	1.5	7.6		0.84
06192	Isopropylbenzene	98-82-8	18	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	16	0.10	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	88	0.37	7.6		0.84
06192	Methylene Chloride	75-09-2	22	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	17	0.07	3.8		0.84

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	18		0.09	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.10	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	17		0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	18		0.19	3.8		0.84
06192	Toluene	108-88-3	19		0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	20		0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	19		0.26	3.8		0.84
06192	Trichloroethene	79-01-6	19		0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	21		0.28	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	17		0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.09	3.8		0.84
06192	Vinyl Chloride	75-01-4	18		0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	37		0.16	3.8		0.84
06192	o-Xylene	95-47-6	18		0.16	3.8		0.84
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	110		4.6	14		20.49
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	646		18.7	37.4		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		19	190		1
04688	Acenaphthylene	208-96-8	1,500		19	190		1
04688	Aniline	62-53-3	980		190	560		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,500		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,300		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,300		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,400		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,300		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	560		1
04688	Benzyl alcohol	100-51-6	1,300		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,400		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,600		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,400		19	190		1
04688	Carbazole	86-74-8	1,400		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		37	190		1
04688	4-Chloroaniline	106-47-8	950		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		19	190		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200	19	190		1
04688	2-Chlorophenol	95-57-8	1,300	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400	37	190		1
04688	Chrysene	218-01-9	1,500	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	19	190		1
04688	Dibenzofuran	132-64-9	1,400	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,300	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,300	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,300	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,400	19	190		1
04688	Diethylphthalate	84-66-2	1,400	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,400	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	37	190		1
04688	Dimethylphthalate	131-11-3	1,400	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,800	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,300	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,400	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	19	370		1
04688	Fluoranthene	206-44-0	1,400	19	190		1
04688	Fluorene	86-73-7	1,400	19	190		1
04688	Hexachlorobenzene	118-74-1	1,400	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	560		1
04688	Hexachloroethane	67-72-1	1,300	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	19	190		1
04688	Isophorone	78-59-1	1,400	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,400	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,300	19	190		1
04688	2-Methylphenol	95-48-7	1,300	37	190		1
04688	4-Methylphenol	106-44-5	1,200	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	19	190		1
04688	2-Nitroaniline	88-74-4	1,400	19	190		1
04688	3-Nitroaniline	99-09-2	1,300	37	190		1
04688	4-Nitroaniline	100-01-6	1,000	75	190		1
04688	Nitrobenzene	98-95-3	1,500	19	190		1
04688	2-Nitrophenol	88-75-5	1,400	19	190		1
04688	4-Nitrophenol	100-02-7	1,200	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	1,400		19	190		1
04688	Pentachlorophenol	87-86-5	1,200		190	560		1
04688	Phenanthrene	85-01-8	1,400		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1
04688	Pyrene	129-00-0	1,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500		37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		0.75	1.9		1
10138	Acenaphthylene	208-96-8	30		0.37	1.9		1
10138	Anthracene	120-12-7	35		0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	39		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	42		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	42		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	45		6.8	20		1
10138	Chrysene	218-01-9	38		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	40		0.75	1.9		1
10138	Diethylphthalate	84-66-2	36		6.8	20		1
10138	Dimethylphthalate	131-11-3	34		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.8	20		1
10138	Fluoranthene	206-44-0	40		0.75	1.9		1
10138	Fluorene	86-73-7	33		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	36		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	33		0.75	1.9		1
10138	Naphthalene	91-20-3	33		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	28		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	46		6.8	20		1
10138	Phenanthrene	85-01-8	34		0.75	1.9		1
10138	Pyrene	129-00-0	32		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	5.6		0.2	0.9		21.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,000		63	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,000		42	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,100		42	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,000		42	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,000		42	130		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	1,700		100	310		1
10132	Nitrobenzene	98-95-3	2,000		42	130		1
10132	Nitroglycerin	55-63-0	41,000		840	2,500		1
10132	2-Nitrotoluene	88-72-2	1,900		84	130		1
10132	3-Nitrotoluene	99-08-1	2,100		100	130		1
10132	4-Nitrotoluene	99-99-0	1,900		84	130		1
10132	PETN	78-11-5	52,000		840	2,500		1
10132	RDX	121-82-4	1,700		52	130		1
10132	Tetryl	479-45-8	1,400		64	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,700		42	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,000		42	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,200		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	18		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	23		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.85	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.8		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	4.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	6.9		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	1.8		0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		110	560		1
10501	Isopropanol	67-63-0	2,000		110	560		1
10501	Methanol	67-56-1	2,100		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	130		5.6	11		1
08283	Ethylene glycol	107-21-1	180		5.6	11		1
08283	Propylene glycol	57-55-6	170		5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.4	4.0		1
10318	o-Terphenyl	84-15-1	1.6	J	1.6	4.0		1
10318	p-Terphenyl	92-94-4	1.6	J	1.6	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,600		6.69	22.1		1
07914	Boron	7440-42-8	221		0.398	5.53		1
01650	Calcium	7440-70-2	3,050		2.77	22.1		1
01654	Iron	7439-89-6	24,600		2.89	22.1		1
01656	Lithium	7439-93-2	144		0.69	2.2		1
01657	Magnesium	7439-95-4	4,930		0.487	11.1		1
06958	Manganese	7439-96-5	298		0.0398	0.553		1
10145	Phosphorus	7723-14-0	352		0.387	11.1		1
01662	Potassium	7440-09-7	3,460		12.5	55.3		1
01667	Sodium	7440-23-5	1,210		6.58	111		1
07968	Strontium	7440-24-6	127		0.0277	0.553		1
06969	Tin	7440-31-5	391		0.354	11.1		1
06970	Titanium	7440-32-6	1,440		0.0786	1.11		1
10146	Zirconium	7440-67-7	113		0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.12		0.0819	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.9		0.0885	0.443		2
06126	Barium	7440-39-3	167		0.117	0.443		2
06127	Beryllium	7440-41-7	1.99		0.0177	0.111		2
06128	Cadmium	7440-43-9	1.75		0.0487	0.111		2
06131	Chromium	7440-47-3	36.6		0.133	0.443		2
06132	Cobalt	7440-48-4	88.2		0.0221	0.111		2
06133	Copper	7440-50-8	27.9		0.0885	0.443		2
06135	Lead	7439-92-1	14.5		0.0113	0.221		2
06138	Molybdenum	7439-98-7	18.2		0.0553	0.111		2
06139	Nickel	7440-02-0	36.2		0.111	0.443		2
06141	Selenium	7782-49-2	3.13		0.0642	0.443		2
06142	Silver	7440-22-4	16.6		0.0157	0.111		2
06145	Thallium	7440-28-0	1.05		0.0332	0.111		2
06148	Vanadium	7440-62-2	62.7		0.0243	0.111		2
06149	Zinc	7440-66-6	91.4		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.176	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.7	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.0	0.90	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	531	10.2	33.9		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	41.7	1.1	5.6		5
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	5.2	0.19	0.54		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 18:59	Chelsea B Eastep	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 19:43	Chelsea B Eastep	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 12:04	Jason M Long	20.49
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:33	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:32	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 18:35	Timothy J Trees	1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17609 SDG#: DE176-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 21:46	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 12:37	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 22:28	Marie D John	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:32	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 07:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:35	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:21	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 11:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 17:57	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 19:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:20	Choon Y Tian	2

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Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310776
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17609 SDG#: DE176-09MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 16:20	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 18:50	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	140	6.3	7.6		0.84
06192	Benzene	71-43-2	20	0.09	3.8		0.84
06192	Bromobenzene	108-86-1	17	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	19	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	19	0.08	3.8		0.84
06192	Bromoform	75-25-2	17	0.38	3.8		0.84
06192	Bromomethane	74-83-9	17	0.24	3.8		0.84
06192	2-Butanone	78-93-3	120	1.2	7.6		0.84
06192	n-Butylbenzene	104-51-8	16	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	17	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	16	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	21	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	18	0.10	3.8		0.84
06192	Chloroethane	75-00-3	15	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	14	0.28	3.8		0.84
06192	Chloroform	67-66-3	20	0.11	3.8		0.84
06192	Chloromethane	74-87-3	19	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	16	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	17	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	15	0.46	4.6		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.66	3.8		0.84
06192	Dibromochloromethane	124-48-1	18	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	18	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	18	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	17	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	16	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	16	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	18	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	21	0.09	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	20	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	22	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	19	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	20	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	19	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	18	0.08	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	21	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	20	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	18	0.06	3.8		0.84
06192	Freon 113	76-13-1	22	0.10	3.8		0.84
06192	Freon 133a	75-88-7	20	0.46	4.6		0.82
06192	Hexachlorobutadiene	87-68-3	13	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	82	1.5	7.6		0.84
06192	Isopropylbenzene	98-82-8	18	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	16	0.10	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	83	0.37	7.6		0.84
06192	Methylene Chloride	75-09-2	22	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	18	0.07	3.8		0.84

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	18		0.09	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	19		0.10	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	16		0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	18		0.19	3.8		0.84
06192	Toluene	108-88-3	19		0.08	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	14		0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	13		0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	19		0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	18		0.26	3.8		0.84
06192	Trichloroethene	79-01-6	19		0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	20		0.27	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	16		0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	17		0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	17		0.09	3.8		0.84
06192	Vinyl Chloride	75-01-4	19		0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	37		0.16	3.8		0.84
06192	o-Xylene	95-47-6	18		0.16	3.8		0.84
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120		4.8	14		21.26
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	645		18.6	37.1		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		19	190		1
04688	Acenaphthylene	208-96-8	1,500		19	190		1
04688	Aniline	62-53-3	910		190	560		1
04688	Anthracene	120-12-7	1,400		19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	1,500		19	190		1
04688	Benzo(a)pyrene	50-32-8	1,300		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,300		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,200		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	560		1
04688	Benzyl alcohol	100-51-6	1,200		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,400		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,500		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,300		19	190		1
04688	Carbazole	86-74-8	1,500		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		37	190		1
04688	4-Chloroaniline	106-47-8	940		74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		19	190		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,200	19	190		1
04688	2-Chlorophenol	95-57-8	1,300	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400	37	190		1
04688	Chrysene	218-01-9	1,500	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,500	19	190		1
04688	Dibenzofuran	132-64-9	1,400	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,300	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,300	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,300	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	370		1
04688	2,4-Dichlorophenol	120-83-2	1,300	19	190		1
04688	Diethylphthalate	84-66-2	1,300	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,400	37	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	37	190		1
04688	Dimethylphthalate	131-11-3	1,400	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	930	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,300	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,400	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,500	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500	19	370		1
04688	Fluoranthene	206-44-0	1,400	19	190		1
04688	Fluorene	86-73-7	1,400	19	190		1
04688	Hexachlorobenzene	118-74-1	1,400	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600	190	560		1
04688	Hexachloroethane	67-72-1	1,300	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,500	19	190		1
04688	Isophorone	78-59-1	1,400	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,400	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,300	19	190		1
04688	2-Methylphenol	95-48-7	1,300	37	190		1
04688	4-Methylphenol	106-44-5	1,200	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,400	19	190		1
04688	2-Nitroaniline	88-74-4	1,500	19	190		1
04688	3-Nitroaniline	99-09-2	1,300	37	190		1
04688	4-Nitroaniline	100-01-6	1,000	74	190		1
04688	Nitrobenzene	98-95-3	1,500	19	190		1
04688	2-Nitrophenol	88-75-5	1,400	19	190		1
04688	4-Nitrophenol	100-02-7	1,400	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	37	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,500	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

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Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Di-n-octylphthalate	117-84-0	1,300		19	190		1
04688	Pentachlorophenol	87-86-5	1,300		190	560		1
04688	Phenanthrene	85-01-8	1,400		19	190		1
04688	Phenol	108-95-2	1,300		19	190		1
04688	Pyrene	129-00-0	1,500		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,400		37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500		37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.75	1.9		1
10138	Acenaphthylene	208-96-8	31		0.38	1.9		1
10138	Anthracene	120-12-7	34		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	37		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	41		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	40		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	42		6.8	20		1
10138	Chrysene	218-01-9	36		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	39		0.75	1.9		1
10138	Diethylphthalate	84-66-2	36		6.8	20		1
10138	Dimethylphthalate	131-11-3	34		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47		6.8	20		1
10138	Fluoranthene	206-44-0	38		0.75	1.9		1
10138	Fluorene	86-73-7	33		0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	38		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	37		0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	34		0.75	1.9		1
10138	Naphthalene	91-20-3	34		0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	29		0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	47		6.8	20		1
10138	Phenanthrene	85-01-8	33		0.75	1.9		1
10138	Pyrene	129-00-0	31		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.0		0.2	0.9		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,000		63	130		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,000		42	130		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,200		42	130		1
10132	2,4-Dinitrotoluene	121-14-2	2,000		42	130		1
10132	2,6-Dinitrotoluene	606-20-2	2,000		42	130		1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	HMX	2691-41-0	1,700		100	310		1
10132	Nitrobenzene	98-95-3	2,100		42	130		1
10132	Nitroglycerin	55-63-0	42,000		840	2,500		1
10132	2-Nitrotoluene	88-72-2	2,000		84	130		1
10132	3-Nitrotoluene	99-08-1	2,200		100	130		1
10132	4-Nitrotoluene	99-99-0	2,000		84	130		1
10132	PETN	78-11-5	52,000		840	2,500		1
10132	RDX	121-82-4	1,700		52	130		1
10132	Tetryl	479-45-8	1,200		64	130		1
10132	1,3,5-Trinitrobenzene	99-35-4	1,600		42	130		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,000		42	130		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,100		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	20		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	25		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.0	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	2.1		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.8		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	12		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	2.0		0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		110	560		1
10501	Isopropanol	67-63-0	2,000		110	560		1
10501	Methanol	67-56-1	2,100		110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	100		5.6	11		1
08283	Ethylene glycol	107-21-1	140		5.6	11		1
08283	Propylene glycol	57-55-6	130		5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.5	4.0		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.8	J	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000		6.63	21.9		1
07914	Boron	7440-42-8	223		0.394	5.48		1
01650	Calcium	7440-70-2	3,150		2.74	21.9		1
01654	Iron	7439-89-6	24,600		2.86	21.9		1
01656	Lithium	7439-93-2	143		0.68	2.2		1
01657	Magnesium	7439-95-4	4,920		0.482	11.0		1
06958	Manganese	7439-96-5	287		0.0394	0.548		1
10145	Phosphorus	7723-14-0	347		0.384	11.0		1
01662	Potassium	7440-09-7	3,510		12.4	54.8		1
01667	Sodium	7440-23-5	1,200		6.52	110		1
07968	Strontium	7440-24-6	126		0.0274	0.548		1
06969	Tin	7440-31-5	388		0.351	11.0		1
06970	Titanium	7440-32-6	1,540		0.0778	1.10		1
10146	Zirconium	7440-67-7	112		0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.10		0.0827	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.0		0.0894	0.447		2
06126	Barium	7440-39-3	167		0.118	0.447		2
06127	Beryllium	7440-41-7	2.16		0.0179	0.112		2
06128	Cadmium	7440-43-9	1.65		0.0492	0.112		2
06131	Chromium	7440-47-3	35.1		0.134	0.447		2
06132	Cobalt	7440-48-4	83.9		0.0223	0.112		2
06133	Copper	7440-50-8	27.2		0.0894	0.447		2
06135	Lead	7439-92-1	13.7		0.0114	0.223		2
06138	Molybdenum	7439-98-7	16.9		0.0559	0.112		2
06139	Nickel	7440-02-0	35.3		0.112	0.447		2
06141	Selenium	7782-49-2	2.87		0.0648	0.447		2
06142	Silver	7440-22-4	15.4		0.0159	0.112		2
06145	Thallium	7440-28-0	1.02		0.0335	0.112		2
06148	Vanadium	7440-62-2	61.2		0.0246	0.112		2
06149	Zinc	7440-66-6	89.4		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.174	0.0078	0.112		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 19:21	Chelsea B Eastep	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 20:06	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 12:24	Jason M Long	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:35	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 18:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 22:13	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 13:33	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 23:05	Marie D John	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:35	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 07:51	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:45	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:40	Sarah M Snyder	1

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Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 11:27	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 18:10	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 20:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 09:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 09:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 09:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 09:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:05	Damary Valentin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310777
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310778
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,400		6.57	21.7		1
07914	Boron	7440-42-8	4.75	J	0.391	5.43		1
01650	Calcium	7440-70-2	2,430		2.71	21.7		1
01654	Iron	7439-89-6	27,100		2.83	21.7		1
01656	Lithium	7439-93-2	31.2		0.67	2.2		1
01657	Magnesium	7439-95-4	4,640		0.478	10.9		1
06958	Manganese	7439-96-5	757		0.0391	0.543		1
10145	Phosphorus	7723-14-0	272		0.380	10.9		1
01662	Potassium	7440-09-7	2,500		12.3	54.3		1
01667	Sodium	7440-23-5	126		6.46	109		1
07968	Strontium	7440-24-6	16.6		0.0271	0.543		1
06969	Tin	7440-31-5	2.80	J	0.347	10.9		1
06970	Titanium	7440-32-6	1,290		0.0771	1.09		1
10146	Zirconium	7440-67-7	5.69		0.499	5.43		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0827	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.58		0.0894	0.447		2
06126	Barium	7440-39-3	99.2		0.118	0.447		2
06127	Beryllium	7440-41-7	0.730		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0797	J	0.0492	0.112		2
06131	Chromium	7440-47-3	16.1		0.134	0.447		2
06132	Cobalt	7440-48-4	5.40		0.0223	0.112		2
06133	Copper	7440-50-8	8.94		0.0894	0.447		2
06135	Lead	7439-92-1	6.19		0.0114	0.223		2
06138	Molybdenum	7439-98-7	1.03		0.0559	0.112		2
06139	Nickel	7440-02-0	13.1		0.112	0.447		2
06141	Selenium	7782-49-2	0.109	J	0.0648	0.447		2
06142	Silver	7440-22-4	0.0709	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.288		0.0335	0.112		2
06148	Vanadium	7440-62-2	34.1		0.0246	0.112		2
06149	Zinc	7440-66-6	53.8		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310778
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.6	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 07:19	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310778
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17609 SDG#: DE176-09DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 16:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 16:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 15:57	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 19:36	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11166102201B	06/15/2011 18:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11166102201B	06/15/2011 09:40	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		6.8	8.2		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.89
06192	Methylene Chloride	75-09-2	1.4	J	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.89
06192	Toluene	108-88-3	0.20	J	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.5	J	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	1.1	J	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.93
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.49	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.7		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	6.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		6.76	22.3		1
07914	Boron	7440-42-8	3.81	J	0.402	5.59		1
01650	Calcium	7440-70-2	1,990		2.79	22.3		1
01654	Iron	7439-89-6	20,900		2.92	22.3		1
01656	Lithium	7439-93-2	23.8		0.69	2.2		1
01657	Magnesium	7439-95-4	4,140		0.492	11.2		1
06958	Manganese	7439-96-5	156		0.0402	0.559		1
10145	Phosphorus	7723-14-0	234		0.391	11.2		1
01662	Potassium	7440-09-7	1,510		12.6	55.9		1
01667	Sodium	7440-23-5	156		6.65	112		1
07968	Strontium	7440-24-6	24.0		0.0279	0.559		1
06969	Tin	7440-31-5	3.00	J	0.358	11.2		1
06970	Titanium	7440-32-6	1,240		0.0793	1.12		1
10146	Zirconium	7440-67-7	3.24	J	0.514	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0843	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.6		0.0911	0.456		2
06126	Barium	7440-39-3	114		0.121	0.456		2
06127	Beryllium	7440-41-7	0.791		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.0512	J	0.0501	0.114		2
06131	Chromium	7440-47-3	20.0		0.137	0.456		2
06132	Cobalt	7440-48-4	7.48		0.0228	0.114		2
06133	Copper	7440-50-8	8.54		0.0911	0.456		2
06135	Lead	7439-92-1	8.54		0.0116	0.228		2
06138	Molybdenum	7439-98-7	1.18		0.0570	0.114		2
06139	Nickel	7440-02-0	15.0		0.114	0.456		2
06141	Selenium	7782-49-2	0.273	J	0.0661	0.456		2
06142	Silver	7440-22-4	0.130		0.0162	0.114		2
06145	Thallium	7440-28-0	0.295		0.0342	0.114		2
06148	Vanadium	7440-62-2	42.8		0.0251	0.114		2
06149	Zinc	7440-66-6	69.3		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5 J	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.36	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA8N-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 20:28	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 13:04	Jason M Long	21.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:38	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 21:56	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 22:39	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 19:07	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/13/2011 23:41	Marie D John	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:38	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 08:33	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 01:55	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 05:58	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 11:52	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 20:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:01	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 21:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1

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Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310779
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17610 SDG#: DE176-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:23	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203A	06/21/2011 19:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203A	06/21/2011 19:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202A	06/25/2011 20:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 19:47	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:23	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203A	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202A	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401A	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.2		6.4	7.6		0.82
06192	Benzene	71-43-2	0.09	U	0.09	3.8		0.82
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.82
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.82
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.82
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.82
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.82
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.82
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.82
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.82
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.82
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.82
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.82
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.82
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.82
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.82
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.82
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.82
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.82
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.82
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.82
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.8		0.82
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.82
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.82
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.82
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.82
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.82
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.82
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.82
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.82
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.82
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.82
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.82
06192	Methylene Chloride	75-09-2	1.6	J	0.23	3.8		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.82

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.8		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.82
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.82
06192	Toluene	108-88-3	0.19	J	0.08	3.8		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.82
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.82
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.8		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.8		0.82
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.82
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.82
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.82
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.94
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	31.0	J	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 1,2-dichlorobenzene 2-nitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,200		6.78	22.4		1
07914	Boron	7440-42-8	4.39	J	0.404	5.61		1
01650	Calcium	7440-70-2	3,750		2.80	22.4		1
01654	Iron	7439-89-6	29,100		2.93	22.4		1
01656	Lithium	7439-93-2	21.6		0.70	2.2		1
01657	Magnesium	7439-95-4	4,550		0.493	11.2		1
06958	Manganese	7439-96-5	137		0.0404	0.561		1
10145	Phosphorus	7723-14-0	126		0.392	11.2		1
01662	Potassium	7440-09-7	1,590		12.7	56.1		1
01667	Sodium	7440-23-5	268		6.67	112		1
07968	Strontium	7440-24-6	30.4		0.0280	0.561		1
06969	Tin	7440-31-5	3.19	J	0.359	11.2		1
06970	Titanium	7440-32-6	1,120		0.0796	1.12		1
10146	Zirconium	7440-67-7	2.94	J	0.516	5.61		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0855	0.231		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.72		0.0924	0.462		2
06126	Barium	7440-39-3	86.3		0.122	0.462		2
06127	Beryllium	7440-41-7	0.690		0.0185	0.115		2
06128	Cadmium	7440-43-9	0.0653	J	0.0508	0.115		2
06131	Chromium	7440-47-3	21.6		0.139	0.462		2
06132	Cobalt	7440-48-4	5.25		0.0231	0.115		2
06133	Copper	7440-50-8	10.5		0.0924	0.462		2
06135	Lead	7439-92-1	7.72		0.0118	0.231		2
06138	Molybdenum	7439-98-7	0.436		0.0577	0.115		2
06139	Nickel	7440-02-0	12.0		0.115	0.462		2
06141	Selenium	7782-49-2	0.0670	U	0.0670	0.462		2
06142	Silver	7440-22-4	0.0210	J	0.0164	0.115		2
06145	Thallium	7440-28-0	0.288		0.0346	0.115		2
06148	Vanadium	7440-62-2	36.0		0.0254	0.115		2
06149	Zinc	7440-66-6	58.9		0.647	3.46		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	U	0.0081	0.115		1

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-106-SA8N-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 20:50	Chelsea B Eastep	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 13:24	Jason M Long	20.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:42	Christopher D Meeks	n.a.

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 22:14	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 23:06	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 19:46	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/14/2011 00:18	Marie D John	20.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:41	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 09:16	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:04	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 06:16	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 12:17	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 22:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:27	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2

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Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310780
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17611 SDG#: DE176-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 19:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 19:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 20:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 19:59	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:26	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	27		6.8	8.1		0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.88
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.1		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.88
06192	Bromoform	75-25-2	0.40	U	0.40	4.1		0.88
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.88
06192	2-Butanone	78-93-3	2.5	J	1.2	8.1		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.1		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.88
06192	Chloromethane	74-87-3	0.33	U	0.33	4.1		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.88
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.88
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.88
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.88
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.88
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.88
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.88
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.88
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.88
06192	Methylene Chloride	75-09-2	1.0	J	0.24	4.1		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.88

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.88
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.88
06192	Toluene	108-88-3	0.12	J	0.08	4.1		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.88
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.1		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.1		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.88
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.88
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.88
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.42
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	2,700		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.9		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	1.2	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,600		6.94	22.9		1
07914	Boron	7440-42-8	5.38	J	0.413	5.73		1
01650	Calcium	7440-70-2	4,210		2.87	22.9		1
01654	Iron	7439-89-6	25,100		2.99	22.9		1
01656	Lithium	7439-93-2	22.3		0.71	2.3		1
01657	Magnesium	7439-95-4	5,110		0.505	11.5		1
06958	Manganese	7439-96-5	276		0.0413	0.573		1
10145	Phosphorus	7723-14-0	342		0.401	11.5		1
01662	Potassium	7440-09-7	3,180		13.0	57.3		1
01667	Sodium	7440-23-5	85.2	J	6.82	115		1
07968	Strontium	7440-24-6	24.1		0.0287	0.573		1
06969	Tin	7440-31-5	3.03	J	0.367	11.5		1
06970	Titanium	7440-32-6	1,260		0.0814	1.15		1
10146	Zirconium	7440-67-7	3.42	J	0.528	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214	J	0.0849	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.38		0.0917	0.459		2
06126	Barium	7440-39-3	96.9		0.122	0.459		2
06127	Beryllium	7440-41-7	0.765		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.161		0.0505	0.115		2
06131	Chromium	7440-47-3	23.3		0.138	0.459		2
06132	Cobalt	7440-48-4	8.83		0.0229	0.115		2
06133	Copper	7440-50-8	14.5		0.0917	0.459		2
06135	Lead	7439-92-1	7.63		0.0117	0.229		2
06138	Molybdenum	7439-98-7	0.409		0.0573	0.115		2
06139	Nickel	7440-02-0	19.3		0.115	0.459		2
06141	Selenium	7782-49-2	0.0665	U	0.0665	0.459		2
06142	Silver	7440-22-4	0.0258	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.336		0.0344	0.115		2
06148	Vanadium	7440-62-2	45.3		0.0252	0.115		2
06149	Zinc	7440-66-6	75.5		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-109-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 21:13	Chelsea B Eastep	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 13:44	Jason M Long	21.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17612 SDG#: DE176-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:45	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 22:32	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 23:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/26/2011 20:25	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11164A34A	06/14/2011 00:54	Marie D John	20.42
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:44	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 09:58	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:14	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 06:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 12:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 04:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1

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Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310781
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17612 SDG#: DE176-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:31	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 20:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 20:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 22:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 20:10	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:28	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	32		6.8	8.1		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	2.5	J	1.2	8.1		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.1		0.87
06192	Methylene Chloride	75-09-2	1.7	J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.16	J	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.87

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.94

GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	190	U	190	380		10

Reporting limits were raised due to interference from the sample matrix.

This sample was extracted outside of the method required holding time due to a laboratory error.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.05
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	3,100		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	6.8		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.95	J	0.46	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.92	22.9		1
07914	Boron	7440-42-8	5.53	J	0.412	5.72		1
01650	Calcium	7440-70-2	7,420		2.86	22.9		1
01654	Iron	7439-89-6	27,500		2.99	22.9		1
01656	Lithium	7439-93-2	24.6		0.71	2.3		1
01657	Magnesium	7439-95-4	5,620		0.504	11.4		1
06958	Manganese	7439-96-5	298		0.0412	0.572		1
10145	Phosphorus	7723-14-0	356		0.401	11.4		1
01662	Potassium	7440-09-7	3,190		12.9	57.2		1
01667	Sodium	7440-23-5	185		6.81	114		1
07968	Strontium	7440-24-6	32.6		0.0286	0.572		1
06969	Tin	7440-31-5	2.76	J	0.366	11.4		1
06970	Titanium	7440-32-6	1,360		0.0813	1.14		1
10146	Zirconium	7440-67-7	3.38	J	0.527	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216	J	0.0823	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.47		0.0889	0.445		2
06126	Barium	7440-39-3	127		0.118	0.445		2
06127	Beryllium	7440-41-7	0.870		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.175		0.0489	0.111		2
06131	Chromium	7440-47-3	26.1		0.133	0.445		2
06132	Cobalt	7440-48-4	10.7		0.0222	0.111		2
06133	Copper	7440-50-8	16.3		0.0889	0.445		2
06135	Lead	7439-92-1	11.2		0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.476		0.0556	0.111		2
06139	Nickel	7440-02-0	21.8		0.111	0.445		2
06141	Selenium	7782-49-2	0.0645	U	0.0645	0.445		2
06142	Silver	7440-22-4	0.0633	J	0.0158	0.111		2

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Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

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14420 Albemarle Point Place
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17613 SDG#: DE176-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06145	Thallium	7440-28-0	0.386		0.0333	0.111		2
06148	Vanadium	7440-62-2	50.8		0.0245	0.111		2
06149	Zinc	7440-66-6	92.4		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.0		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.57		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-109-SA8N-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 21:35	Chelsea B Eastep	0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111621AA	06/11/2011 14:04	Jason M Long	20.94
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:57	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:47	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11179SLC026	07/02/2011 00:32	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/23/2011 23:59	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/27/2011 08:39	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	2	11179SLC026	06/29/2011 02:30	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 13:46	Marie D John	22.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:47	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 10:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:23	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 06:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 13:31	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:43	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 05:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:35	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 20:17	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 20:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 22:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 20:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:29	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-109-SA8N-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310782
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17613 SDG#: DE176-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.0		6.5	7.8		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.86
06192	Methylene Chloride	75-09-2	1.6	J	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.86
06192	Toluene	108-88-3	0.30	J	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.08
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.3	J	18.7	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	49	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
1,2-dichlorobenzene
2-nitrophenol

bis(2-Ethylhexyl)phthalate was detected in the method blank at a concentration of 19 ug/kg. The blank value was not subtracted from the analytical result.

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	1.2	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.55
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	2.4		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.54	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	5.4		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.99	J	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,700		6.64	22.0		1
07914	Boron	7440-42-8	4.54	J	0.395	5.49		1
01650	Calcium	7440-70-2	2,430		2.75	22.0		1
01654	Iron	7439-89-6	23,100		2.87	22.0		1
01656	Lithium	7439-93-2	31.4		0.68	2.2		1
01657	Magnesium	7439-95-4	4,370		0.483	11.0		1
06958	Manganese	7439-96-5	230		0.0395	0.549		1
10145	Phosphorus	7723-14-0	240		0.384	11.0		1
01662	Potassium	7440-09-7	2,150		12.4	54.9		1
01667	Sodium	7440-23-5	134		6.53	110		1
07968	Strontium	7440-24-6	16.9		0.0275	0.549		1
06969	Tin	7440-31-5	2.82	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,190		0.0780	1.10		1
10146	Zirconium	7440-67-7	3.14	J	0.505	5.49		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0821	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.5		0.0887	0.444		2
06126	Barium	7440-39-3	165		0.118	0.444		2
06127	Beryllium	7440-41-7	1.07		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.113		0.0488	0.111		2
06131	Chromium	7440-47-3	22.3		0.133	0.444		2
06132	Cobalt	7440-48-4	8.70		0.0222	0.111		2
06133	Copper	7440-50-8	12.6		0.0887	0.444		2
06135	Lead	7439-92-1	9.71		0.0113	0.222		2
06138	Molybdenum	7439-98-7	1.45		0.0555	0.111		2
06139	Nickel	7440-02-0	20.0		0.111	0.444		2
06141	Selenium	7782-49-2	0.128	J	0.0643	0.444		2
06142	Silver	7440-22-4	0.0883	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.406		0.0333	0.111		2
06148	Vanadium	7440-62-2	49.0		0.0244	0.111		2
06149	Zinc	7440-66-6	85.1		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

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14420 Albemarle Point Place
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17614 SDG#: DE176-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0320	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	6.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111652AA	06/14/2011 21:58	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 15:35	Jason M Long	21.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:57	Christopher D Meeks	n.a.

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Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
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17614 SDG#: DE176-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116024624	06/09/2011 13:57	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116024624	06/09/2011 13:50	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11161SLF026	06/29/2011 22:51	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11162SLB026	06/24/2011 00:26	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167SLJ026	06/27/2011 09:10	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11161SLF026	06/11/2011 08:00	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11167SLJ026	06/17/2011 20:55	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11162SLB026	06/13/2011 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 14:22	Marie D John	21.55
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116024624	06/09/2011 13:50	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 11:23	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660001A	06/17/2011 02:42	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111620007A	06/16/2011 07:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111620007A	06/13/2011 07:15	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660001A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111670011A	06/18/2011 13:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 21:58	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111600025A	06/11/2011 19:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/16/2011 23:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111670011A	06/16/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111600025A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310783
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17614 SDG#: DE176-14FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111675708002	06/18/2011 08:47	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111671026001D	06/17/2011 10:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111671026001C	06/17/2011 10:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111671026001B	06/17/2011 10:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111671026001A	06/17/2011 10:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111675711002	06/20/2011 09:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111675708002	06/16/2011 21:03	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111671026001	06/16/2011 21:19	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111675711002	06/16/2011 11:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171621203B	06/21/2011 20:32	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171621203B	06/21/2011 20:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11169621202B	06/25/2011 23:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11164243201A	06/14/2011 20:33	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:30	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171621203B	06/20/2011 08:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11169621202B	06/18/2011 08:00	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11164243201A	06/13/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-060811 Water
SSFL Area IV Collocated Soil Sampling
TB-060811

LLI Sample # WW 6310784
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 08:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17615 SDG#: DE176-15TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-060811 Water
SSFL Area IV Collocated Soil Sampling
TB-060811

LLI Sample # WW 6310784
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 08:00

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17615 SDG#: DE176-15TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 16:33	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111601AA	06/09/2011 13:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111601AA	06/09/2011 13:37	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 16:33	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11166B20A	06/16/2011 08:48	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11166B20A	06/16/2011 08:48	Laura M Krieger	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2-Nitroaniline 2,6-Dinitrotoluene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.052		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.052		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.052		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.052		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.052		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.052		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.052		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.052		1
10137	Butylbenzylphthalate	85-68-7	0.052	U	0.052	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.71	J	0.052	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.052		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.052		1
10137	Diethylphthalate	84-66-2	0.30	J	0.052	1.0		1
10137	Dimethylphthalate	131-11-3	0.052	U	0.052	1.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.069	J	0.052	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.052		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.052		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.052		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.052		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.060		0.031	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.052	U	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.052		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 0.06 ug/l. The blank value was not subtracted from the analytical result. The sample was re-extracted outside of the method required holding time and Bis(2-ethylhexyl)phthalate was again detected in the method blank and sample.

The recoveries of several compounds were outside of QC limits in the LCS/LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0834	U	0.0834	0.200		1
08014	Boron	7440-42-8	0.0138	U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702	U	0.0702	0.200		1
01754	Iron	7439-89-6	0.0522	U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024	U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172	U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084	U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089	U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239	U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433	U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089	U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098	U	0.0098	0.0200		1

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00053 U	0.00053	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000066 J	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000060 J	0.000046	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **EB16-SA8N-SB-060811 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

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Suite 210
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17616 SDG#: DE176-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 16:55	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111601AA	06/09/2011 13:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111601AA	06/09/2011 13:57	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 16:55	Kevin A Sposito	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11160WAL026	06/22/2011 14:24	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11160WAK026	06/17/2011 01:06	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11160WAL026	06/10/2011 08:30	Catherine R Wiker	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11160WAK026	06/09/2011 20:00	Karen L Beyer	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111650015A	06/16/2011 18:27	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111650015A	06/14/2011 16:10	JoElla L Rice	1
01743	Aluminum	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	111601848003	06/12/2011 07:28	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	111601848003	06/10/2011 13:11	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111606050001D	06/14/2011 13:14	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111606050001C	06/14/2011 13:14	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111606050001B	06/14/2011 13:14	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111606050001A	06/14/2011 13:14	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111605713002	06/11/2011 10:36	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111601848003	06/09/2011 20:30	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111606050001	06/09/2011 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111605713002	06/09/2011 15:25	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB16-SA8N-SB-060811 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310785
LLI Group # 1250632
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/08/2011 09:36

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17616 SDG#: DE176-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11161196601B	06/20/2011 03:19	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11165621702A	06/15/2011 19:58	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	2	11160281401A	06/09/2011 14:21	Elyse P Brunstetter	1
00200	18b pH by 9040B	SW-846 9040B	1	11160020003A	06/09/2011 19:30	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111652AA	Sample number(s): 6310767-6310777,6310779-6310783									
Acetone	8.3		6.7	8.0	ug/kg	123		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	110		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	102		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	115		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	108		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	110		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	82		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	129		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	97		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	98		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	98		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	109		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	106		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	73		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	105		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	111		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	92		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	99		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	80		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	129*		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	108		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	115		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	110		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	105		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	101		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	103		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	81		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	110		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	118		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	113		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	108		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	107		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	107		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	113		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	109		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	106		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	106		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	107		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	107		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	105		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	82		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	134		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	108		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	98		75-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	117		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	132		61-134		
Methylene Chloride	1.7	J	0.24	4.0	ug/kg	125*		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	102		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	107		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	108		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	113		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	104		77-120		
Toluene	0.14	J	0.08	4.0	ug/kg	107		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	101		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	92		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	111		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	106		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	116		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	102		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	104		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	93		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	110		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	108		80-120		
Batch number: E111601AA	Sample number(s): 6310784-6310785									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102		80-123		
Batch number: E111621AA	Sample number(s): 6310767-6310777,6310779-6310782									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	107	108	70-130	1	30
Batch number: E111642AA	Sample number(s): 6310783									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	107	70-130	8	30
Batch number: L111651AA	Sample number(s): 6310784-6310785									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11160WAK026	Sample number(s): 6310785									
Acenaphthene	0.010	U	0.010	0.050	ug/l	129*	132*	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	132*	124*	70-110	6	30
Anthracene	0.010	U	0.010	0.050	ug/l	140*	130*	66-111	7	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	129*	129*	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	130*	148*	60-127	12	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	127*	125*	69-123	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	124	136*	57-131	9	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	135*	138*	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	125	126	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	133*	149*	74-131	12	30
Chrysene	0.010	U	0.010	0.050	ug/l	131*	129*	76-116	2	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	149*	172*	55-134	14	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	137*	124	57-134	11	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	110	116	40-119	5	30
Bis(2-Ethylhexyl)phthalate	0.061	J	0.050	1.0	ug/l	126	124	57-154	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	0.010	U	0.010	0.050	ug/l	138*	158*	75-116	14	30
Fluorene	0.010	U	0.010	0.050	ug/l	157*	128*	75-114	21	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	145*	162*	69-124	11	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	134*	119*	71-117	12	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	118*	100	75-115	17	30
Naphthalene	0.030	U	0.030	0.050	ug/l	128*	126*	72-109	2	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	80	62	36-89	26	30
Di-n-octylphthalate	0.065	J	0.050	1.0	ug/l	136	125	57-145	8	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	130*	127*	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	146*	130*	69-118	12	30
Batch number: 11160WAL026	Sample number(s): 6310785									
Aniline	1	U	1.	5	ug/l	112*	104*	49-101	7	30
Benzidine	20	U	20.	60	ug/l	137*	116	34-117	16	30
Benzoic acid	6	U	6.	15	ug/l	33	32	10-69	3	30
Benzyl alcohol	5	U	5.	15	ug/l	71	74	66-97	4	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	88	87	82-117	2	30
Carbazole	1	U	1.	5	ug/l	92	85	81-114	7	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	87	86	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	146*	120	42-124	20	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	90	84	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	86	80	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	91	85	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	78	71	54-132	9	30
2-Chlorophenol	1	U	1.	5	ug/l	80	80	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	90	85	82-111	6	30
Dibenzofuran	1	U	1.	5	ug/l	90	83	83-108	9	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	80	74	55-118	8	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	78	70	50-119	10	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	78	72	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	127*	121*	49-111	5	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	87	86	80-109	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	85	82	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	101	95	70-130	7	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	90	89	78-119	2	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	91	88	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	88	81	81-115	8	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	88	80*	85-115	9	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	90	86	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	91	86	81-118	5	30
Hexachlorobutadiene	1	U	1.	5	ug/l	82	76	57-124	7	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	72	62	36-118	15	30
Hexachloroethane	1	U	1.	5	ug/l	72	68	52-113	5	30
Isophorone	1	U	1.	5	ug/l	95	85	74-117	11	30
2-Methylphenol	1	U	1.	5	ug/l	84	84	64-101	0	30
4-Methylphenol	2	U	2.	5	ug/l	79	80	61-103	2	30
2-Nitroaniline	1	U	1.	5	ug/l	87	81*	83-116	7	30
3-Nitroaniline	1	U	1.	5	ug/l	101	92	74-113	10	30
4-Nitroaniline	1	U	1.	5	ug/l	100	90	59-100	10	30
Nitrobenzene	1	U	1.	5	ug/l	93	84	75-109	10	30
2-Nitrophenol	1	U	1.	5	ug/l	89	87	86-120	1	30
4-Nitrophenol	10	U	10.	30	ug/l	59	58	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	74	70	69-110	6	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	86	82	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	94	90	53-110	4	30
Phenol	1	U	1.	5	ug/l	51	50	21-67	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	84	76	71-112	9	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	87	83	79-107	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	90	90	81-113	1	30
Batch number: 11161SLF026	Sample number(s): 6310767-6310777,6310779-6310781,6310783									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	83		70-130		
Batch number: 11162SLB026	Sample number(s): 6310767-6310777,6310779-6310783									
Acenaphthene	17	U	17.	170	ug/kg	85		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	85		75-122		
Aniline	170 U		170.	500	ug/kg	85		34-94		
Anthracene	17	U	17.	170	ug/kg	88		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	90		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	104		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	122		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	96		67-125		
Benzoic acid	170 U		170.	500	ug/kg	86		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	78		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	89		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	86		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	87		79-112		
Carbazole	17	U	17.	170	ug/kg	89		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	82		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	114*		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	81		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	80		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	81		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	76		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	86		79-110		
Chrysene	17	U	17.	170	ug/kg	91		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	125		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	88		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	77*		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	75		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	76		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	126*		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	81		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	83		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	84		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	84		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	78		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	84		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		77-111		
bis(2-Ethylhexyl)phthalate	19	J	17.	330	ug/kg	93		75-117		
Fluoranthene	17	U	17.	170	ug/kg	88		78-116		
Fluorene	17	U	17.	170	ug/kg	84		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	67	U	67.	170	ug/kg	82		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	73		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	81		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	123*		64-119		
Isophorone	17	U	17.	170	ug/kg	86		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	81		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	81		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	78		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	78		66-117		
Naphthalene	17	U	17.	170	ug/kg	82		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	82		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	84		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	80*		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	101		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	67		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	80		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	92		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	82		51-117		
Phenanthrene	17	U	17.	170	ug/kg	89		77-113		
Phenol	17	U	17.	170	ug/kg	80		58-112		
Pyrene	17	U	17.	170	ug/kg	83		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	81		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	86		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	87		78-111		
Batch number: 11167SLJ026	Sample number(s): 6310767-6310777,6310779-6310783									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	107		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	118		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	119		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	110		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	100		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	118		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	96		56-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11179SLC026	Sample number(s): 6310782									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	88		70-130		
Batch number: 11164A34A	Sample number(s): 6310767-6310777,6310779-6310781									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 11165A34A	Sample number(s): 6310782-6310783									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	77	67-119	4	30
Batch number: 11166B20A	Sample number(s): 6310784									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 111640008A	Sample number(s): 6310767-6310777,6310779-6310783									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	101	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	102	100	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
HMX	100 U		100.	300	ug/kg	103		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	88		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	120		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	112		80-120		
PETN	800 U		800.	2,400	ug/kg	123*		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
Batch number: 111660001A	Sample number(s): 6310767-6310777,6310779-6310783									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	90		80-126		
Batch number: 111660019A	Sample number(s): 6310768,6310771									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111620007A	Sample number(s): 6310767-6310777,6310779-6310783									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	144*	120*	36-106	18	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	104		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	134		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111650015A	Sample number(s): 6310785									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	86*	88*	35-84	2	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	96	51-128	8	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	116	110	56-135	5	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111670011A	Sample number(s): 6310767-6310777,6310779-6310783									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	85		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	87		67-127		
EFH (C8-C11)	1.1	J	0.40	1.2	mg/kg	82		54-107		
Batch number: 111600024A	Sample number(s): 6310767-6310774									
Ethanol	100 U		100.	500	ug/kg	88		71-129		
Isopropanol	100 U		100.	500	ug/kg	85		75-125		
Methanol	100 U		100.	500	ug/kg	87		68-129		
Batch number: 111600025A	Sample number(s): 6310767-6310777,6310779-6310783									
Diethylene glycol	5.0	U	5.0	10	mg/kg	104		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	107		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	106		75-125		
Batch number: 111610018A	Sample number(s): 6310775-6310777,6310779-6310783									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	83		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 111660005A	Sample number(s): 6310767-6310777,6310779-6310783									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
Batch number: 111601848003	Sample number(s): 6310785									
Aluminum	0.0834	U	0.0834	0.200	mg/l	102	105	90-112	3	20
Boron	0.0138	U	0.0138	0.0500	mg/l	103	103	89-110	0	20
Calcium	0.0702	U	0.0702	0.200	mg/l	103	107	90-112	4	20
Iron	0.0522	U	0.0522	0.200	mg/l	101	105	90-112	4	20
Lithium	0.0024	U	0.0024	0.0200	mg/l	101	105	80-120	3	20
Magnesium	0.0195	J	0.0172	0.100	mg/l	104	108	89-110	3	20
Manganese	0.00084	U	0.00084	0.0050	mg/l	108	108	90-110	0	20
Phosphorus	0.0089	U	0.0089	0.100	mg/l	109	103	80-120	5	20
Potassium	0.239	U	0.239	0.500	mg/l	102	106	85-115	4	20
Sodium	0.433	U	0.433	1.00	mg/l	102	105	87-114	3	20
Strontium	0.00089	U	0.00089	0.0050	mg/l	107	106	90-110	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tin	0.0098 U	0.0098	0.0200	mg/l	107	102	90-110	5	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	108	90-113	2	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	102	107	80-120	5	20
Batch number: 111605713002	Sample number(s): 6310785								
Mercury	0.00012 J	0.00004 6	0.00020	mg/l	109	111	80-120	2	20
Batch number: 111606050001A	Sample number(s): 6310785								
Antimony	0.00030 U	0.00030	0.0010	mg/l	100	106	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	104	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	109	111	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	107	105	90-114	1	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	103	105	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	99	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	107	90-113	0	20
Lead	0.000052 U	0.00005 2	0.0010	mg/l	104	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	108	106	90-113	2	20
Silver	0.000080 U	0.00008 0	0.00050	mg/l	106	105	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	102	98	89-116	5	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	89-116	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	103	90-116	1	20
Batch number: 111606050001B	Sample number(s): 6310785								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	116*	85-114	8	20
Batch number: 111606050001C	Sample number(s): 6310785								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	107	89-115	2	20
Batch number: 111606050001D	Sample number(s): 6310785								
Barium	0.00053 U	0.00053	0.0020	mg/l	111	104	88-113	6	20
Batch number: 111671026001A	Sample number(s): 6310767-6310783								
Antimony	0.0740 U	0.0740	0.200	mg/kg	143		27-181		
Arsenic	0.0800 U	0.0800	0.400	mg/kg	106		83-113		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	102		86-111		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	105		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	103		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0800 U	0.0800	0.400	mg/kg	101		83-110		
Lead	0.0152 J	0.0102	0.200	mg/kg	102		83-110		
Nickel	0.100 U	0.100	0.400	mg/kg	103		81-110		
Silver	0.0142 U	0.0142	0.100	mg/kg	102		81-111		
Thallium	0.0300 U	0.0300	0.100	mg/kg	101		83-110		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	94		84-116		
Zinc	0.560 U	0.560	3.00	mg/kg	102		81-112		
Batch number: 111671026001B	Sample number(s): 6310767-6310783								
Selenium	0.0580 U	0.0580	0.400	mg/kg	103		83-111		
Batch number: 111671026001C	Sample number(s): 6310767-6310783								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 111671026001D	Sample number(s): 6310767-6310783								
Barium	0.106 U	0.106	0.400	mg/kg	100		81-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111675708002	Sample number(s): 6310767-6310783									
Aluminum	6.05	U	6.05	20.0	mg/kg	89		61-110		
Boron	0.360	U	0.360	5.00	mg/kg	92		78-110		
Calcium	4.40	J	2.50	20.0	mg/kg	99		88-110		
Iron	4.74	J	2.61	20.0	mg/kg	95		61-110		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	1.04	J	0.440	10.0	mg/kg	95		82-110		
Manganese	0.0360	U	0.0360	0.500	mg/kg	97		89-112		
Phosphorus	1.62	J	0.350	10.0	mg/kg	107		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	94		78-110		
Sodium	5.95	U	5.95	100	mg/kg	93		87-110		
Strontium	0.0250	U	0.0250	0.500	mg/kg	95		86-110		
Tin	1.79	J	0.320	10.0	mg/kg	99		90-114		
Titanium	0.0710	U	0.0710	1.00	mg/kg	87		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	105		80-120		
Batch number: 111675711002	Sample number(s): 6310767-6310783									
Mercury	0.0068	U	0.0068	0.0964	mg/kg	98		88-123		
Batch number: 11160281401A	Sample number(s): 6310785									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	107	106	90-110	1	20
Batch number: 11161196601B	Sample number(s): 6310785									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	106	107	90-110	1	20
Batch number: 11164243201A	Sample number(s): 6310767-6310776,6310778-6310783									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	101		80-120		
Batch number: 11165621702A	Sample number(s): 6310785									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	98	99	85-115	1	20
Batch number: 11166102201B	Sample number(s): 6310767-6310776,6310778									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11168102201A	Sample number(s): 6310779-6310783									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11169621202A	Sample number(s): 6310767-6310776,6310778-6310779									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11169621202B	Sample number(s): 6310780-6310783									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11171621203A	Sample number(s): 6310767-6310776,6310778-6310779									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11171621203B	Sample number(s): 6310780-6310783									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11160020003A	Sample number(s): 6310785									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11166039401A	Sample number(s): 6310767-6310775,6310778-6310779									
18a pH by 9045C						100		95-105		
Batch number: 11166039401B	Sample number(s): 6310780-6310783									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
18a pH by 9045C					100		95-105		
Batch number: 11174162403A	Sample number(s): 6310767-6310778								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11174162403B	Sample number(s): 6310779-6310783								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111652AA	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Acetone	102	99	15-210	3	30				
Benzene	104	105	55-143	0	30				
Bromobenzene	90	90	43-139	0	30				
Bromochloromethane	105	101	60-137	5	30				
Bromodichloromethane	101	100	53-136	2	30				
Bromoform	90	89	38-124	2	30				
Bromomethane	83	88	42-168	4	30				
2-Butanone	91	85	37-163	7	30				
n-Butylbenzene	81	83	30-146	2	30				
sec-Butylbenzene	86	88	33-157	2	30				
tert-Butylbenzene	86	87	41-152	0	30				
Carbon Tetrachloride	110	109	45-153	2	30				
Chlorobenzene	96	97	49-135	0	30				
Chloroethane	78	81	39-152	4	30				
2-Chloroethyl Vinyl Ether	81	76	32-139	8	30				
Chloroform	109	108	61-142	1	30				
Chloromethane	96	102	51-163	5	30				
2-Chlorotoluene	86	86	42-146	1	30				
4-Chlorotoluene	89	90	39-145	1	30				
Chlorotrifluoroethene	92	83	70-130	11	30				
1,2-Dibromo-3-chloropropane	89	85	30-139	5	30				
Dibromochloromethane	95	93	51-128	3	30				
1,2-Dibromoethane	96	93	54-129	3	30				
Dibromomethane	96	94	57-130	2	30				
1,2-Dichlorobenzene	89	88	36-133	1	30				
1,3-Dichlorobenzene	85	86	34-134	0	30				
1,4-Dichlorobenzene	86	87	35-136	0	30				
Dichlorodifluoromethane	92	92	26-151	0	30				
1,1-Dichloroethane	108	109	63-142	1	30				
1,2-Dichloroethane	110	108	68-131	2	30				
1,1-Dichloroethene	114	115	61-149	1	30				
cis-1,2-Dichloroethene	101	101	60-136	1	30				
trans-1,2-Dichloroethene	104	104	59-142	1	30				
1,2-Dichloropropane	101	101	62-135	0	30				
1,3-Dichloropropane	99	98	58-129	2	30				
2,2-Dichloropropane	110	111	53-147	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1-Dichloropropene	104	106	54-145	1	30				
cis-1,3-Dichloropropene	94	95	51-131	1	30				
trans-1,3-Dichloropropene	91	92	49-129	0	30				
Ethylbenzene	94	97	44-141	2	30				
Freon 113	117	116	56-156	2	30				
Freon 133a	117	110	61-131	7	30				
Hexachlorobutadiene	66	67	10-155	2	30				
2-Hexanone	89	87	32-160	4	30				
Isopropylbenzene	94	95	38-144	1	30				
p-Isopropyltoluene	84	86	29-152	2	30				
Methyl Tertiary Butyl Ether	101	100	55-129	1	30				
4-Methyl-2-pentanone	92	87	46-139	6	30				
Methylene Chloride	109	108	61-141	2	30				
n-Propylbenzene	92	94	39-157	2	30				
Styrene	93	94	35-134	0	30				
1,1,1,2-Tetrachloroethane	98	99	52-130	1	30				
1,1,2,2-Tetrachloroethane	89	86	40-152	4	30				
Tetrachloroethene	94	96	42-149	1	30				
Toluene	98	100	50-146	1	30				
1,2,3-Trichlorobenzene	74	72	10-140	3	30				
1,2,4-Trichlorobenzene	67	67	10-136	0	30				
1,1,1-Trichloroethane	104	103	64-142	2	30				
1,1,2-Trichloroethane	97	96	54-139	2	30				
Trichloroethene	99	99	53-144	1	30				
Trichlorofluoromethane	108	108	47-163	1	30				
1,2,3-Trichloropropane	91	87	45-154	5	30				
1,2,4-Trimethylbenzene	87	89	37-149	2	30				
1,3,5-Trimethylbenzene	89	91	38-150	1	30				
Vinyl Chloride	96	99	50-154	2	30				
m+p-Xylene	96	98	44-137	1	30				
o-Xylene	93	96	42-137	2	30				
Batch number: E111601AA	Sample number(s): 6310784-6310785 UNSPK: P308916								
1,4-Dioxane	101	118	73-138	16	30				
Batch number: E111621AA	Sample number(s): 6310767-6310777,6310779-6310782 UNSPK: 6310775								
1,4-Dioxane	96	100	70-130	8	30				
Batch number: 11161SLF026	Sample number(s): 6310767-6310777,6310779-6310781,6310783 UNSPK: 6310775								
N-Nitrosodimethylamine	69*	70	70-130	0	30				
Batch number: 11162SLB026	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Acenaphthene	77	78	75-115	0	30				
Acenaphthylene	79*	80*	81-110	0	30				
Aniline	52	49	35-95	7	30				
Anthracene	77	77	75-115	0	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	78	78	65-122	1	30				
Benzo(a)pyrene	71	70	57-126	2	30				
Benzo(b)fluoranthene	68	67	59-125	2	30				
Benzo(g,h,i)perylene	76	80	59-127	4	30				
Benzo(k)fluoranthene	68	67	56-132	2	30				
Benzoic acid	66	67	10-173	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzyl alcohol	67	66*	67-115	3	30				
4-Bromophenyl-phenylether	75	74	67-129	2	30				
Butylbenzylphthalate	85	80	73-134	7	30				
Di-n-butylphthalate	76	72	67-123	6	30				
Carbazole	74	78	64-120	4	30				
4-Chloro-3-methylphenol	72*	71*	76-110	2	30				
4-Chloroaniline	50	51	23-95	0	30				
bis(2-Chloroethoxy)methane	75	74*	75-104	2	30				
bis(2-Chloroethyl)ether	69	69	60-116	0	30				
bis(2-Chloroisopropyl)ether	70	69	55-142	2	30				
2-Chloronaphthalene	62	63	50-141	2	30				
2-Chlorophenol	71*	71*	73-121	0	30				
4-Chlorophenyl-phenylether	75*	76*	80-109	1	30				
Chrysene	81	81	62-128	0	30				
Dibenz(a,h)anthracene	80	80	65-125	1	30				
Dibenzofuran	77	77	71-112	0	30				
1,2-Dichlorobenzene	68	71	66-108	4	30				
1,3-Dichlorobenzene	67	69	63-109	2	30				
1,4-Dichlorobenzene	68*	68*	70-100	0	30				
3,3'-Dichlorobenzidine	59	58	16-119	3	30				
2,4-Dichlorophenol	74*	72*	78-117	4	30				
Diethylphthalate	75	71	66-118	6	30				
2,4-Dimethylphenol	77*	77*	78-110	1	30				
3,5-Dimethylphenol	100	99	70-130	2	30				
Dimethylphthalate	75	75	64-118	0	30				
4,6-Dinitro-2-methylphenol	59	50	24-116	18	30				
2,4-Dinitrophenol	48	35	20-143	31*	30				
2,4-Dinitrotoluene	71*	77	73-113	8	30				
2,6-Dinitrotoluene	74	78	69-123	4	30				
1,2-Diphenylhydrazine	84	82	71-129	3	30				
bis(2-Ethylhexyl)phthalate	89	80	63-122	10	30				
Fluoranthene	73	77	73-112	5	30				
Fluorene	76*	77	77-111	1	30				
Hexachlorobenzene	77	76*	77-114	2	30				
Hexachlorobutadiene	77	77	62-120	1	30				
Hexachlorocyclopentadiene	72	70	10-153	3	30				
Hexachloroethane	69	70	57-109	1	30				
Indeno(1,2,3-cd)pyrene	78	80	61-126	2	30				
Isophorone	74	75	73-102	0	30				
1-Methylnaphthalene	75	73	73-112	3	30				
2-Methylnaphthalene	68*	68*	76-114	1	30				
2-Methylphenol	68*	68*	75-111	2	30				
4-Methylphenol	65*	63*	71-111	4	30				
Naphthalene	76	76	72-116	1	30				
2-Nitroaniline	77	78	67-125	1	30				
3-Nitroaniline	68	70	59-122	2	30				
4-Nitroaniline	54	54	52-112	0	30				
Nitrobenzene	78	79	72-106	0	30				
2-Nitrophenol	76	75	74-115	2	30				
4-Nitrophenol	65	73	54-113	11	30				
N-Nitroso-di-n-propylamine	67	67	60-116	1	30				
N-Nitrosodimethylamine	69	70	47-116	0	30				
N-Nitrosodiphenylamine	80*	79*	86-145	1	30				

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Quality Control Summary

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Reported: 07/08/11 at 09:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Di-n-octylphthalate	72	68	56-126	6	30				
Pentachlorophenol	66	71	28-127	5	30				
Phenanthrene	76	76	65-125	0	30				
Phenol	68	70	58-126	3	30				
Pyrene	79	78	74-126	1	30				
1,2,4-Trichlorobenzene	76	77	72-115	1	30				
2,4,5-Trichlorophenol	76*	76*	78-109	0	30				
2,4,6-Trichlorophenol	78	78	77-115	0	30				
Batch number: 11167SLJ026	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Acenaphthene	86	87	63-105	1	30				
Acenaphthylene	81	83	67-114	3	30				
Anthracene	93	91	60-122	2	30				
Benzo(a)anthracene	103	98	59-128	4	30				
Benzo(a)pyrene	103	103	45-138	0	30				
Benzo(b)fluoranthene	113	108	43-155	4	30				
Benzo(g,h,i)perylene	97	95	33-141	2	30				
Benzo(k)fluoranthene	103	103	42-144	0	30				
Butylbenzylphthalate	112	106	57-173	5	30				
Di-n-butylphthalate	119	113	65-148	5	30				
Chrysene	100	97	48-134	3	30				
Dibenz(a,h)anthracene	105	104	22-133	1	30				
Diethylphthalate	97	96	70-136	0	30				
Dimethylphthalate	90	91	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	103	106	39-167	2	30				
Fluoranthene	106	101	26-166	5	30				
Fluorene	88	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	104	102	21-143	2	30				
1-Methylnaphthalene	97	98	72-123	2	30				
2-Methylnaphthalene	88	89	64-103	2	30				
Naphthalene	87	89	61-102	3	30				
N-Nitrosodimethylamine	73	77	48-113	5	30				
Di-n-octylphthalate	124	124	40-192	0	30				
Phenanthrene	91	88	12-165	2	30				
Pyrene	86	83	15-153	3	30				
Batch number: 11179SLC026	Sample number(s): 6310782 UNSPK: P323477								
N-Nitrosodimethylamine	83	84	70-130	1	30				
Batch number: 11164A34A	Sample number(s): 6310767-6310777,6310779-6310781 UNSPK: 6310775								
9a TPH by EPA 8015B Gas C5-C12	54	58	39-118	6	30				
Batch number: 111640008A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
4-Amino-2,6-Dinitrotoluene	97	97	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	97	97	80-137	1	50				
1,3-Dinitrobenzene	100	104	38-166	4	50				
2,4-Dinitrotoluene	94	96	80-131	3	50				
2,6-Dinitrotoluene	97	98	80-127	2	50				
HMX	83	81	63-128	2	50				
Nitrobenzene	97	100	80-125	3	50				
Nitroglycerin	82	83	80-120	1	50				
2-Nitrotoluene	93	97	80-122	4	50				
3-Nitrotoluene	99	103	72-119	4	50				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrotoluene	93	96	80-125	4	50				
PETN	104	103	80-121	2	50				
RDX	79	82	75-129	3	50				
Tetryl	66	57	55-174	14	50				
1,3,5-Trinitrobenzene	83	76*	82-126	8	50				
2,4,6-Trinitrotoluene	96	97	82-130	0	50				
Batch number: 111660001A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
25a Formaldehyde 8315A	91	92	80-120	0	50				
Batch number: 111660019A	Sample number(s): 6310768,6310771 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111620007A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
PCB-1016	96	105	29-146	9	50				
PCB-1260	102	113	39-149	9	50				
Batch number: 111670011A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
EFH (C12-C14)	89	107	49-123	17	20				
EFH (C15-C20)	125*	150*	49-123	18	20				
EFH (C21-C30)	113	158*	49-123	20	20				
EFH (C30 - C40)	71	240*	49-123	51*	20				
EFH (C8-C11)	64	83	49-123	9	20				
Batch number: 111600024A	Sample number(s): 6310767-6310774 UNSPK: P309733								
Ethanol	81	77	48-130	5	20				
Isopropanol	79	75	12-149	5	20				
Methanol	79	76	43-138	5	20				
Batch number: 111600025A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
Diethylene glycol	54*	44*	59-109	20	20				
Ethylene glycol	70	56*	63-107	22*	20				
Propylene glycol	75	59*	63-107	23*	20				
Batch number: 111610018A	Sample number(s): 6310775-6310777,6310779-6310783 UNSPK: 6310775								
Ethanol	70	70	48-130	0	20				
Isopropanol	70	70	12-149	1	20				
Methanol	73	74	43-138	2	20				
Batch number: 111660005A	Sample number(s): 6310767-6310777,6310779-6310783 UNSPK: 6310775								
m-Terphenyl	74*	82	75-125	10	20				
o-Terphenyl	85	93	75-125	9	20				
p-Terphenyl	85	92	75-125	8	20				
Batch number: 111671026001A	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Antimony	64*	62*	75-125	2	20	0.243	0.119 J	69* (1)	20
Arsenic	243 (2)	198 (2)	75-125	6	20	8.44	6.72	23*	20
Beryllium	126*	144*	75-125	8	20	0.773	0.647	18	20
Cadmium	151*	141*	75-125	6	20	0.0692 J	0.0707 J	2 (1)	20
Chromium	160*	145*	75-125	4	20	16.7	14.3	15	20
Cobalt	147*	138*	75-125	5	20	5.88	4.79	20	20
Copper	160*	153*	75-125	2	20	9.02	7.92	13	20
Lead	205*	179*	75-125	6	20	6.78	5.48	21*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nickel	183*	173*	75-125	3	20	14.1	11.6	19	20
Silver	150*	137*	75-125	8	20	0.0617 J	0.0628 J	2 (1)	20
Thallium	162*	155*	75-125	2	20	0.295	0.255	15 (1)	20
Vanadium	204*	189*	75-125	2	20	35.5	30.2	16	20
Zinc	260 (2)	240 (2)	75-125	2	20	55.5	47.7	15	20
Batch number: 111671026001B	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Selenium	136*	123	75-125	9	20	0.112 J	0.0963 J	15 (1)	20
Batch number: 111671026001C	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Molybdenum	153*	141*	75-125	7	20	1.04	0.909	14	20
Batch number: 111671026001D	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Barium	433 (2)	423 (2)	75-125	0	20	106	87.9	18	20
Batch number: 111675708002	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Aluminum	2284 (2)	2490 (2)	75-125	1	20	21,700	21,700	0	20
Boron	98	100	84-115	1	20	3.97 J	4.21 J	6 (1)	20
Calcium	142 (2)	165 (2)	75-125	3	20	2,150	2,150	0	20
Iron	1221 (2)	1275 (2)	75-125	0	20	20,600	24,000	15	20
Lithium	102	102	82-114	0	20	27.8	27.7	0	20
Magnesium	257 (2)	256 (2)	75-125	0	20	3,860	4,110	6	20
Manganese	32 (2)	12 (2)	75-125	4	20	248	670	92*	20
Phosphorus	103	99	75-125	1	20	211	241	13	20
Potassium	118	124	75-125	1	20	1,910	2,220	15	20
Sodium	98	99	75-125	0	20	108	112	3 (1)	20
Strontium	100	99	75-115	1	20	14.9	14.7	2	20
Tin	88	88	80-110	1	20	2.52 J	2.48 J	2 (1)	20
Titanium	207 (2)	303 (2)	75-125	7	20	1,070	1,140	6	20
Zirconium	99	99	75-125	1	20	3.08 J	5.05	49* (1)	20
Batch number: 111675711002	Sample number(s): 6310767-6310783 UNSPK: 6310775 BKG: 6310775								
Mercury	83	81	65-135	1	20	0.0215 J	0.0069 U	200* (1)	20
Batch number: 11164243201A	Sample number(s): 6310767-6310776,6310778-6310783 UNSPK: 6310775 BKG: 6310775								
3a Cr VI by EPA 7199	91		75-125			0.45 J	0.42 J	8 (1)	20
Batch number: 11166102201B	Sample number(s): 6310767-6310776,6310778 UNSPK: 6310775 BKG: 6310775								
17a Cyanide by 9012B	97		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11168102201A	Sample number(s): 6310779-6310783 UNSPK: 6310779 BKG: 6310779								
17a Cyanide by 9012B	92		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11169621202A	Sample number(s): 6310767-6310776,6310778-6310779 UNSPK: 6310775 BKG: 6310775								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11169621202B	Sample number(s): 6310780-6310783 UNSPK: 6310780 BKG: 6310780								
7a Perchlorate EPA 314.0	82		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11171621203A	Sample number(s): 6310767-6310776,6310778-6310779 UNSPK: 6310775 BKG: 6310775								
11a Anions by 300.0 - Fluoride	29*		80-120			2.2	2.4	6 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
11a Anions by 300.0 - Nitrate	93		80-120			1.4	J	1.4	J	0 (1)	20
Batch number: 11171621203B	Sample number(s): 6310780-6310783 UNSPK: 6310780 BKG: 6310780										
11a Anions by 300.0 - Fluoride	47*		80-120			4.4		3.8		15 (1)	20
11a Anions by 300.0 - Nitrate	74*		80-120			3.4		3.3		1 (1)	20
Batch number: 11166039401A	Sample number(s): 6310767-6310775,6310778-6310779 BKG: 6310775										
18a pH by 9045C						6.90		6.84		1	3
Batch number: 11166039401B	Sample number(s): 6310780-6310783 BKG: P312174										
18a pH by 9045C						8.69		8.74		1	3
Batch number: 11174162403A	Sample number(s): 6310767-6310778 BKG: 6310775										
28a Moisture Content by 160.3						11.4		11.6		2	20
Moisture Content by 160.3						11.4		11.6		2	20
Moisture Content by 160.3						11.4		11.6		2	20
Batch number: 11174162403B	Sample number(s): 6310779-6310783 BKG: P313369										
Moisture Content by 160.3						15.3		15.0		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111652AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6310767	105	111	98	96
6310768	101	99	100	94
6310769	103	103	101	92
6310770	103	101	100	95
6310771	102	101	101	94
6310772	103	104	100	95
6310773	106	109	99	96
6310774	103	101	100	94
6310775	105	100	100	93
6310776	104	102	102	102
6310777	103	100	103	102
6310779	104	103	100	96
6310780	103	100	101	93
6310781	106	105	98	95
6310782	105	101	100	94
6310783	105	103	101	93
Blank	101	99	101	94
LCS	104	108	101	103
MS	104	102	102	102
MSD	103	100	103	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Limits: 80-120 80-120 81-117 74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111601AA

	Toluene-d8
6310784	97
6310785	97
Blank	100
LCS	100
MS	102
MSD	97

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111621AA

	Toluene-d8
6310767	95
6310768	95
6310769	95
6310770	95
6310771	95
6310772	95
6310773	94
6310774	95
6310775	94
6310776	94
6310777	94
6310779	93
6310780	93
6310781	92
6310782	93
Blank	95
LCS	97
LCSD	96
MS	94
MSD	94

Limits: 70-130

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111642AA

	Toluene-d8
6310783	99
Blank	97
LCS	97
LCSD	97

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

6310784	104	102	100	96
6310785	105	103	99	97
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11160WAK026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310785	138*	96	103
Blank	115	109	111
LCS	115	114	101
LCSD	105	88	105
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11160WAL026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310785	53	34	88	84	83	81
Blank	58	46	88	82	81	76
LCS	67	53	97	96	95	87
LCSD	66	53	89	84	84	85
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11161SLF026

	N-Nitrosodimethylamine-d6
6310767	118
6310768	82
6310769	88
6310770	85
6310771	1071*
6310772	1044*
6310773	132
6310774	133
6310775	83
6310776	119
6310777	119
6310779	151*
6310780	87
6310781	142
6310783	133
Blank	92
LCS	99
MS	119
MSD	119
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11162SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310767	77	80	81	85	87	81
6310768	83	86	86	89	95	84
6310769	76	78	73	80	82	77
6310770	81	84	85	89	91	88
6310771	83	88	81	88	91	83
6310772	87	89	84	90	94	92
6310773	80	82	80	85	88	83
6310774	82	86	80	86	86	83
6310775	82	84	88	85	90	85
6310776	85	87	92	94	98	90
6310777	86	90	90	96	98	83
6310779	85	88	91	91	95	81
6310780	72	73	72	77	78	75
6310781	85	87	89	89	95	92
6310782	84	86	87	92	95	88
6310783	85	90	88	91	95	85
Blank	84	87	88	88	94	89
LCS	87	88	88	89	94	88
MS	85	87	92	94	98	90
MSD	86	90	90	96	98	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11167SLJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6310767	105	86	100
6310768	102	86	103
6310769	99	81	96
6310770	104	85	97
6310771	100	83	93
6310772	101	82	92
6310773	100	82	96
6310774	101	83	95
6310775	103	85	98
6310776	102	83	98
6310777	104	86	94
6310779	108	87	102
6310780	109	87	101
6310781	104	86	104
6310782	111	91	107
6310783	108	87	105
Blank	115	101	118
LCS	105	91	109
MS	102	83	98
MSD	104	86	94
Limits:	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11179SLC026

	N-Nitrosodimethylamine-

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

	d6
6310782	88
Blank	88
LCS	95
MS	85
MSD	89
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11164A34A

	Trifluorotoluene-F
6310767	80
6310768	73
6310769	74
6310770	69
6310771	72
6310772	84
6310773	74
6310774	72
6310775	73
6310776	71
6310777	70
6310779	68
6310780	69
6310781	73
Blank	82
LCS	88
MS	71
MSD	70
Limits:	61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11165A34A

	Trifluorotoluene-F
6310782	75
6310783	83
Blank	85
LCS	86
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11166B20A

	Trifluorotoluene-F
6310784	86
Blank	85
LCS	119
LCSD	122
Limits:	63-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111620007A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6310767	96	97
6310768	95	115
6310769	83	90
6310770	101	112
6310771	91	92
6310772	104	109
6310773	89	105
6310774	95	104
6310775	101	104
6310776	92	97
6310777	104	103
6310779	85	89
6310780	98	94
6310781	94	96
6310782	102	102
6310783	86	111
Blank	113	122*
LCS	106	126*
LCSD	110	139*
MS	92	97
MSD	104	103
Limits:	53-139	45-120

Analysis Name: 16a Energetics by 8330A
Batch number: 111640008A

	2-Nitro-m-xylene
6310767	119
6310768	107
6310769	128
6310770	117
6310771	119
6310772	112
6310773	123
6310774	125
6310775	116
6310776	106
6310777	111
6310779	105
6310780	113
6310781	121
6310782	115
6310783	118
Blank	114
LCS	122
LCSD	107
MS	106
MSD	111
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Batch number: 111650015A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6310785	100	97
Blank	109	83
LCS	110	104
LCSD	103	94
Limits:	30-150	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111660001A

	Butyraldehyde
6310767	107
6310768	104
6310769	104
6310770	107
6310771	109
6310772	107
6310773	113
6310774	105
6310775	100
6310776	98
6310777	98
6310779	92
6310780	103
6310781	100
6310782	107
6310783	102
Blank	110
LCS	103
MS	98
MSD	98
Limits:	64-126

Analysis Name: 19a Alcohols by 8015B
Batch number: 111600024A

	Acetone
6310767	75
6310768	78
6310769	77
6310770	76
6310771	76
6310772	86
6310773	79
6310774	74
Blank	88
LCS	92
MS	76
MSD	75
Limits:	42-138

Analysis Name: 21a Glycols by 8015B

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

Batch number: 111600025A

	Tetramethylene glycol
6310767	89
6310768	90
6310769	96
6310770	97
6310771	96
6310772	98
6310773	94
6310774	98
6310775	96
6310776	102
6310777	101
6310779	96
6310780	86
6310781	93
6310782	99
6310783	93
Blank	110
LCS	117
MS	102
MSD	101
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111610018A

	Acetone
6310775	69
6310776	74
6310777	71
6310779	70
6310780	68
6310781	67
6310782	71
6310783	74
Blank	90
LCS	91
MS	74
MSD	71
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111660005A

	n-Triacontane-d62
6310767	83
6310768	88
6310769	93
6310770	91
6310771	151*
6310772	103
6310773	92
6310774	115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250632
Reported: 07/08/11 at 09:36 AM

Surrogate Quality Control

6310775	101
6310776	90
6310777	86
6310779	88
6310780	90
6310781	97
6310782	96
6310783	95
Blank	92
LCS	94
MS	90
MSD	86
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111670011A

	Chlorobenzene	Orthoterphenyl
6310767	64	81
6310768	69	95
6310769	63	79
6310770	75	98
6310771	64	82
6310772	66	102
6310773	66	85
6310774	52	79
6310775	69	92
6310776	65	93
6310777	69	96
6310779	59	93
6310780	54	87
6310781	59	93
6310782	67	96
6310783	60	91
Blank	78	97
LCS	110	102
MS	65	93
MSD	69	96
Limits:	37-125	47-145

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acct# 13013 Cap# 1250632 Sample# 6310767-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/847471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-023-SA5DN-SB-4.5	06.08.11	1110	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-4.0-5.0	06.08.11	1115	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-023-SA5DN-SB-20.5	06.08.11	1120	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-20.0-21.0	06.08.11	1130	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-4.5	06.08.11	0925	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-4.0-5.0	06.08.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-23.5	06.08.11	0935	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-23.0-24.0	06.08.11	0940	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-4.5	06.08.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-4.0-5.0	06.08.11	1410	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-12.0	06.08.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-11.5-12.5	06.08.11	1420	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-051-SA5DN-SB-4.5	06.08.11	1520	SOIL	NONE	5-Encores										X	X	X										
SL-051-SA5DN-SB-4.0-5.0	06.08.11	1525	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-051-SA5DN-SB-14.5	06.08.11	1530	SOIL	NONE	5-Encores										X	X	X										
SL-051-SA5DN-SB-14.0-15.0	06.08.11	1535	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/08/2011 / 1700	6/9/11 905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9202,9213,9224, 9235	

acct# 13013 Gp# 1250632 sample# 6310767-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vidal Cortez

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-076-SA8N-SB-4.5MS	06.08.11	1000	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-076-SA8N-SB-4.0-5.0MS	06.08.11	1005	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD Hand Auger Sample-only 6 jars
SL-076-SA8N-SB-8.0	06.08.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-076-SA8N-SB-7.5-8.5	06.08.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-106-SA8N-SB-3.0	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-106-SA8N-SB-2.5-3.5	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-4.5	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-4.0-5.0	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-9.5	06.08.11	1550	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-9.0-10.0	06.08.11	1555	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
DUP10-SA8N-QC-060811	06.08.11	1010	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA8N-QC-060811	06.08.11	1010	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060811	06.08.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (*Signature*) — Date/Time: 06/08/2011 / 1700 — Received for Laboratory by: (*Signature*) Mary Hart 6/9/11 905 — Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time — Airbill No.(s) 8754 3339 9202,9213,9224, 9235

acct# 13013 Gp# 1250632 Sample# 6310767-85

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
Samplers Signatures:																			
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers														
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	5-1 L Ambers				X	X	X								
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	1-500mL plastic			X				X	X	X					
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HNO3	1-500 poly		X												
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HCL	6-40mL Vials											X	X		
Relinquished by: (*Signature*)	Date/Time 06/08/2011 / 1700		Received for Laboratory by: (*Signature*) Gary Hodel 6/9/11 905																Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3339 9202,9213,9224																

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/09/2011
Group Number: 1250635
SDG: DX100
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA5DN-SB-4.0-5.0 Soil	6310788
SL-023-SA5DN-SB-20.0-21.0 Soil	6310789
SL-025-SA5DN-SB-4.0-5.0 Soil	6310790
SL-025-SA5DN-SB-23.0-24.0 Soil	6310791
SL-028-SA5DN-SB-4.0-5.0 Soil	6310792
SL-028-SA5DN-SB-11.5-12.5 Soil	6310793
SL-051-SA5DN-SB-4.0-5.0 Soil	6310794
SL-051-SA5DN-SB-14.0-15.0 Soil	6310795
SL-076-SA8N-SB-4.0-5.0 Soil	6310796
SL-076-SA8N-SB-4.0-5.0MS Soil	6310797
SL-076-SA8N-SB-4.0-5.0MSD Soil	6310798
SL-076-SA8N-SB-7.5-8.5 Soil	6310799
SL-106-SA8N-SB-2.5-3.5 Soil	6310800
SL-109-SA8N-SB-4.0-5.0 Soil	6310801
SL-109-SA8N-SB-9.0-10.0 Soil	6310802
DUP10-SA8N-QC-060811 Soil	6310803
EB16-SA8N-SB-060811 Water	6310804

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0121	U	0.0121	1.10	1
11031	12378-PeCDD	40321-76-4	0.0528	JB	0.0145	5.48	1
11031	123478-HxCDD	39227-28-6	0.0242	JBQ	0.0193	5.48	1
11031	123678-HxCDD	57653-85-7	0.127	JBQ	0.0196	5.48	1
11031	123789-HxCDD	19408-74-3	0.176	JB	0.0183	5.48	1
11031	1234678-HpCDD	35822-46-9	2.02	JB	0.0333	5.48	1
11031	OCDD	3268-87-9	18.2	B	0.0276	11.0	1
11031	2378-TCDF	51207-31-9	0.0202	U	0.0202	1.10	1
11031	12378-PeCDF	57117-41-6	0.132	JB	0.0107	5.48	1
11031	23478-PeCDF	57117-31-4	0.0753	JB	0.0109	5.48	1
11031	123478-HxCDF	70648-26-9	0.0947	JB	0.0127	5.48	1
11031	123678-HxCDF	57117-44-9	0.0294	JB	0.0108	5.48	1
11031	123789-HxCDF	72918-21-9	0.228	JB	0.0146	5.48	1
11031	234678-HxCDF	60851-34-5	0.0385	JBQ	0.0118	5.48	1
11031	1234678-HpCDF	67562-39-4	0.100	JB	0.00896	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0197	JB	0.0158	5.48	1
11031	OCDF	39001-02-0	0.328	JB	0.0329	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	55	17 - 157
13C12-1278-TCDD (CRS)	90	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310788
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:15

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10001 SDG#: DX100-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/24/2011 23:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.09	1
11031	12378-PeCDD	40321-76-4	0.0162	U	0.0162	5.44	1
11031	123478-HxCDD	39227-28-6	0.0154	U	0.0154	5.44	1
11031	123678-HxCDD	57653-85-7	0.0387	JB	0.0160	5.44	1
11031	123789-HxCDD	19408-74-3	0.0579	JBQ	0.0154	5.44	1
11031	1234678-HpCDD	35822-46-9	0.342	JB	0.0242	5.44	1
11031	OCDD	3268-87-9	0.693	JB	0.0291	10.9	1
11031	2378-TCDF	51207-31-9	0.0220	JQ	0.0152	1.09	1
11031	12378-PeCDF	57117-41-6	0.0136	JBQ	0.00758	5.44	1
11031	23478-PeCDF	57117-31-4	0.0368	JB	0.00758	5.44	1
11031	123478-HxCDF	70648-26-9	0.0225	JB	0.00879	5.44	1
11031	123678-HxCDF	57117-44-9	0.0163	JBQ	0.00747	5.44	1
11031	123789-HxCDF	72918-21-9	0.0394	JBQ	0.00934	5.44	1
11031	234678-HxCDF	60851-34-5	0.0350	JBQ	0.00758	5.44	1
11031	1234678-HpCDF	67562-39-4	0.0303	JBQ	0.00780	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0160	JBQ	0.0145	5.44	1
11031	OCDF	39001-02-0	0.100	JBQ	0.0342	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	45	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA5DN-SB-20.0-21.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DN-SB-20.0-21.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DN-SB-20.0-21.0

LLI Sample # SW 6310789
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 11:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10002 SDG#: DX100-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 00:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0163 U	0.0163	1.11	1
11031	12378-PeCDD	40321-76-4	0.0194 JBQ	0.0171	5.57	1
11031	123478-HxCDD	39227-28-6	0.0192 JBQ	0.0173	5.57	1
11031	123678-HxCDD	57653-85-7	0.103 JB	0.0174	5.57	1
11031	123789-HxCDD	19408-74-3	0.148 JB	0.0167	5.57	1
11031	1234678-HpCDD	35822-46-9	2.07 JB	0.0354	5.57	1
11031	OCDD	3268-87-9	19.9 B	0.0337	11.1	1
11031	2378-TCDF	51207-31-9	0.0172 U	0.0172	1.11	1
11031	12378-PeCDF	57117-41-6	0.0372 JBQ	0.00836	5.57	1
11031	23478-PeCDF	57117-31-4	0.0361 JBQ	0.00825	5.57	1
11031	123478-HxCDF	70648-26-9	0.0104 U	0.0104	5.57	1
11031	123678-HxCDF	57117-44-9	0.0118 JBQ	0.00881	5.57	1
11031	123789-HxCDF	72918-21-9	0.199 JB	0.0114	5.57	1
11031	234678-HxCDF	60851-34-5	0.0103 JBQ	0.00983	5.57	1
11031	1234678-HpCDF	67562-39-4	0.0667 JB	0.00881	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0171 JB	0.0153	5.57	1
11031	OCDF	39001-02-0	0.176 JB	0.0359	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	52	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-025-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310790
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:30

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10003 SDG#: DX100-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 01:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	JB	0.0153	1.10	1
11031	12378-PeCDD	40321-76-4	0.0182	JBQ	0.0151	5.52	1
11031	123478-HxCDD	39227-28-6	0.0109	U	0.0109	5.52	1
11031	123678-HxCDD	57653-85-7	0.0294	JBQ	0.0115	5.52	1
11031	123789-HxCDD	19408-74-3	0.0351	JBQ	0.0110	5.52	1
11031	1234678-HpCDD	35822-46-9	0.339	JB	0.0228	5.52	1
11031	OCDD	3268-87-9	0.807	JB	0.0293	11.0	1
11031	2378-TCDF	51207-31-9	0.0128	U	0.0128	1.10	1
11031	12378-PeCDF	57117-41-6	0.0131	JBQ	0.00677	5.52	1
11031	23478-PeCDF	57117-31-4	0.0470	JBQ	0.00677	5.52	1
11031	123478-HxCDF	70648-26-9	0.0133	JBQ	0.00666	5.52	1
11031	123678-HxCDF	57117-44-9	0.00816	JBQ	0.00577	5.52	1
11031	123789-HxCDF	72918-21-9	0.0210	JB	0.00655	5.52	1
11031	234678-HxCDF	60851-34-5	0.00566	U	0.00566	5.52	1
11031	1234678-HpCDF	67562-39-4	0.0238	JBQ	0.00644	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0227	JBQ	0.0101	5.52	1
11031	OCDF	39001-02-0	0.0616	JB	0.0311	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	102	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DN-SB-23.0-24.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DN-SB-23.0-24.0

LLI Sample # SW 6310791
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 09:40

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10004 SDG#: DX100-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 02:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0131 U	0.0131	1.16	1
11031	12378-PeCDD	40321-76-4	0.0653 JBQ	0.0230	5.81	1
11031	123478-HxCDD	39227-28-6	0.0711 JBQ	0.0354	5.81	1
11031	123678-HxCDD	57653-85-7	0.212 JB	0.0370	5.81	1
11031	123789-HxCDD	19408-74-3	0.284 JB	0.0345	5.81	1
11031	1234678-HpCDD	35822-46-9	2.80 JB	0.0678	5.81	1
11031	OCDD	3268-87-9	30.8 B	0.0461	11.6	1
11031	2378-TCDF	51207-31-9	0.0418 J	0.0260	1.16	1
11031	12378-PeCDF	57117-41-6	0.148 JBQ	0.0151	5.81	1
11031	23478-PeCDF	57117-31-4	0.156 JB	0.0160	5.81	1
11031	123478-HxCDF	70648-26-9	0.0342 JBQ	0.0274	5.81	1
11031	123678-HxCDF	57117-44-9	0.0597 JBQ	0.0246	5.81	1
11031	123789-HxCDF	72918-21-9	0.327 JB	0.0327	5.81	1
11031	234678-HxCDF	60851-34-5	0.0600 JBQ	0.0265	5.81	1
11031	1234678-HpCDF	67562-39-4	0.390 JB	0.0284	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0992 JBQ	0.0484	5.81	1
11031	OCDF	39001-02-0	1.11 JB	0.0629	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310792
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10005 SDG#: DX100-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 06:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0133	U	0.0133	1.07	1
11031	12378-PeCDD	40321-76-4	0.0194	U	0.0194	5.37	1
11031	123478-HxCDD	39227-28-6	0.0541	JB	0.0344	5.37	1
11031	123678-HxCDD	57653-85-7	0.153	JB	0.0361	5.37	1
11031	123789-HxCDD	19408-74-3	0.187	JB	0.0346	5.37	1
11031	1234678-HpCDD	35822-46-9	4.65	JB	0.0615	5.37	1
11031	OCDD	3268-87-9	24.0	B	0.0462	10.7	1
11031	2378-TCDF	51207-31-9	0.120	J	0.0690	1.07	1
11031	12378-PeCDF	57117-41-6	0.140	JBQ	0.0181	5.37	1
11031	23478-PeCDF	57117-31-4	1.03	JB	0.0180	5.37	1
11031	123478-HxCDF	70648-26-9	0.418	JB	0.0302	5.37	1
11031	123678-HxCDF	57117-44-9	0.117	JB	0.0271	5.37	1
11031	123789-HxCDF	72918-21-9	0.211	JBQ	0.0268	5.37	1
11031	234678-HxCDF	60851-34-5	0.129	JB	0.0247	5.37	1
11031	1234678-HpCDF	67562-39-4	0.453	JB	0.0286	5.37	1
11031	1234789-HpCDF	55673-89-7	0.230	JB	0.0376	5.37	1
11031	OCDF	39001-02-0	1.34	JB	0.0522	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA5DN-SB-11.5-12.5

LLI Sample # SW 6310793
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10006 SDG#: DX100-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 07:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0220 JB	0.0149	1.13	1
11031	12378-PeCDD	40321-76-4	0.0777 JB	0.0163	5.65	1
11031	123478-HxCDD	39227-28-6	0.0455 JBQ	0.0221	5.65	1
11031	123678-HxCDD	57653-85-7	0.103 JB	0.0221	5.65	1
11031	123789-HxCDD	19408-74-3	0.130 JB	0.0211	5.65	1
11031	1234678-HpCDD	35822-46-9	0.701 JBQ	0.0507	5.65	1
11031	OCDD	3268-87-9	4.11 JB	0.0350	11.3	1
11031	2378-TCDF	51207-31-9	0.0204 J	0.0146	1.13	1
11031	12378-PeCDF	57117-41-6	0.0958 JB	0.00839	5.65	1
11031	23478-PeCDF	57117-31-4	0.0912 JBQ	0.00873	5.65	1
11031	123478-HxCDF	70648-26-9	0.0508 JBQ	0.0145	5.65	1
11031	123678-HxCDF	57117-44-9	0.0517 JB	0.0126	5.65	1
11031	123789-HxCDF	72918-21-9	0.173 JBQ	0.0176	5.65	1
11031	234678-HxCDF	60851-34-5	0.0141 U	0.0141	5.65	1
11031	1234678-HpCDF	67562-39-4	0.0664 JBQ	0.0128	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0267 JBQ	0.0221	5.65	1
11031	OCDF	39001-02-0	0.105 JB	0.0541	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	50	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-4.0-5.0

LLI Sample # SW 6310794
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:25

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10007 SDG#: DX100-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 08:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349 JBQ	0.0151	1.10	1
11031	12378-PeCDD	40321-76-4	0.0837 JB	0.0162	5.48	1
11031	123478-HxCDD	39227-28-6	0.0345 JBQ	0.0184	5.48	1
11031	123678-HxCDD	57653-85-7	0.0671 JB	0.0189	5.48	1
11031	123789-HxCDD	19408-74-3	0.0768 JB	0.0182	5.48	1
11031	1234678-HpCDD	35822-46-9	0.380 JB	0.0320	5.48	1
11031	OCDD	3268-87-9	0.937 JB	0.0439	11.0	1
11031	2378-TCDF	51207-31-9	0.0307 JQ	0.0137	1.10	1
11031	12378-PeCDF	57117-41-6	0.105 JB	0.00822	5.48	1
11031	23478-PeCDF	57117-31-4	0.103 JB	0.00845	5.48	1
11031	123478-HxCDF	70648-26-9	0.0609 JBQ	0.0131	5.48	1
11031	123678-HxCDF	57117-44-9	0.0670 JB	0.0110	5.48	1
11031	123789-HxCDF	72918-21-9	0.0562 JBQ	0.0148	5.48	1
11031	234678-HxCDF	60851-34-5	0.0433 JB	0.0124	5.48	1
11031	1234678-HpCDF	67562-39-4	0.0430 JBQ	0.00913	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0474 JB	0.0164	5.48	1
11031	OCDF	39001-02-0	0.133 JB	0.0424	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-051-SA5DN-SB-14.0-15.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA5DN-SB-14.0-15.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5DN-SB-14.0-15.0

LLI Sample # SW 6310795
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:35

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10008 SDG#: DX100-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 09:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0291 JBQ	0.0140	1.11	1
11031	12378-PeCDD	40321-76-4	0.0871 JBQ	0.0191	5.54	1
11031	123478-HxCDD	39227-28-6	0.0482 JBQ	0.0195	5.54	1
11031	123678-HxCDD	57653-85-7	0.106 JB	0.0194	5.54	1
11031	123789-HxCDD	19408-74-3	0.129 JB	0.0186	5.54	1
11031	1234678-HpCDD	35822-46-9	1.44 JB	0.0386	5.54	1
11031	OCDD	3268-87-9	12.7 B	0.0310	11.1	1
11031	2378-TCDF	51207-31-9	0.118 J	0.0499	1.11	1
11031	12378-PeCDF	57117-41-6	0.167 JBQ	0.0218	5.54	1
11031	23478-PeCDF	57117-31-4	0.369 JB	0.0212	5.54	1
11031	123478-HxCDF	70648-26-9	0.593 JB	0.0272	5.54	1
11031	123678-HxCDF	57117-44-9	0.0805 JBQ	0.0238	5.54	1
11031	123789-HxCDF	72918-21-9	0.104 JBQ	0.0210	5.54	1
11031	234678-HxCDF	60851-34-5	0.0621 JBQ	0.0176	5.54	1
11031	1234678-HpCDF	67562-39-4	0.180 JBQ	0.0141	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0419 JBQ	0.0172	5.54	1
11031	OCDF	39001-02-0	0.264 JBQ	0.0414	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310796
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 10:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.0	B	0.0236	1.13	1
11031	12378-PeCDD	40321-76-4	101	B	0.0383	5.63	1
11031	123478-HxCDD	39227-28-6	103	B	0.0426	5.63	1
11031	123678-HxCDD	57653-85-7	101	B	0.0458	5.63	1
11031	123789-HxCDD	19408-74-3	99.7	B	0.0429	5.63	1
11031	1234678-HpCDD	35822-46-9	103	B	0.0651	5.63	1
11031	OCDD	3268-87-9	217	B	0.0494	11.3	1
11031	2378-TCDF	51207-31-9	21.0		0.0999	1.13	1
11031	12378-PeCDF	57117-41-6	101	B	0.0480	5.63	1
11031	23478-PeCDF	57117-31-4	102	B	0.0489	5.63	1
11031	123478-HxCDF	70648-26-9	106	B	0.0630	5.63	1
11031	123678-HxCDF	57117-44-9	103	B	0.0554	5.63	1
11031	123789-HxCDF	72918-21-9	103	B	0.0684	5.63	1
11031	234678-HxCDF	60851-34-5	104	B	0.0605	5.63	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0360	5.63	1
11031	1234789-HpCDF	55673-89-7	103	B	0.0637	5.63	1
11031	OCDF	39001-02-0	208	B	0.0728	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	51	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA8N-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310797
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 10:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	18.6	B	0.0231	1.10	1
11031	12378-PeCDD	40321-76-4	99.1	B	0.0396	5.51	1
11031	123478-HxCDD	39227-28-6	98.1	B	0.0356	5.51	1
11031	123678-HxCDD	57653-85-7	101	B	0.0372	5.51	1
11031	123789-HxCDD	19408-74-3	98.9	B	0.0354	5.51	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0569	5.51	1
11031	OCDD	3268-87-9	213	B	0.0574	11.0	1
11031	2378-TCDF	51207-31-9	20.0		0.0818	1.10	1
11031	12378-PeCDF	57117-41-6	99.0	B	0.0444	5.51	1
11031	23478-PeCDF	57117-31-4	99.3	B	0.0466	5.51	1
11031	123478-HxCDF	70648-26-9	101	B	0.0646	5.51	1
11031	123678-HxCDF	57117-44-9	99.9	B	0.0559	5.51	1
11031	123789-HxCDF	72918-21-9	101	B	0.0783	5.51	1
11031	234678-HxCDF	60851-34-5	102	B	0.0625	5.51	1
11031	1234678-HpCDF	67562-39-4	99.6	B	0.0437	5.51	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0874	5.51	1
11031	OCDF	39001-02-0	204	B	0.0805	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-4.0-5.0

LLI Sample # SW 6310798
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:05

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10009 SDG#: DX100-09MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 11:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403A	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0146 J	0.0139	1.13	1
11031	12378-PeCDD	40321-76-4	0.0397 JBQ	0.0147	5.64	1
11031	123478-HxCDD	39227-28-6	0.0183 U	0.0183	5.64	1
11031	123678-HxCDD	57653-85-7	0.0336 JB	0.0185	5.64	1
11031	123789-HxCDD	19408-74-3	0.0362 JBQ	0.0171	5.64	1
11031	1234678-HpCDD	35822-46-9	0.474 JB	0.0382	5.64	1
11031	OCDD	3268-87-9	1.64 JB	0.0409	11.3	1
11031	2378-TCDF	51207-31-9	0.0174 U	0.0174	1.13	1
11031	12378-PeCDF	57117-41-6	0.115 JBQ	0.00978	5.64	1
11031	23478-PeCDF	57117-31-4	0.0522 JBQ	0.00921	5.64	1
11031	123478-HxCDF	70648-26-9	0.0307 JBQ	0.00944	5.64	1
11031	123678-HxCDF	57117-44-9	0.0262 JBQ	0.00875	5.64	1
11031	123789-HxCDF	72918-21-9	0.0447 JB	0.0108	5.64	1
11031	234678-HxCDF	60851-34-5	0.0131 JBQ	0.00886	5.64	1
11031	1234678-HpCDF	67562-39-4	0.0539 JB	0.0114	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0259 JB	0.0174	5.64	1
11031	OCDF	39001-02-0	0.132 JBQ	0.0394	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA8N-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA8N-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA8N-SB-7.5-8.5

LLI Sample # SW 6310799
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 14:00

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10010 SDG#: DX100-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 19:47	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0172 JQ	0.0144	1.15	1
11031	12378-PeCDD	40321-76-4	0.0137 U	0.0137	5.74	1
11031	123478-HxCDD	39227-28-6	0.0200 JBQ	0.0164	5.74	1
11031	123678-HxCDD	57653-85-7	0.0171 U	0.0171	5.74	1
11031	123789-HxCDD	19408-74-3	0.0492 JB	0.0159	5.74	1
11031	1234678-HpCDD	35822-46-9	0.555 JB	0.0391	5.74	1
11031	OCDD	3268-87-9	1.32 JBQ	0.0367	11.5	1
11031	2378-TCDF	51207-31-9	0.0137 U	0.0137	1.15	1
11031	12378-PeCDF	57117-41-6	0.0136 JBQ	0.00774	5.74	1
11031	23478-PeCDF	57117-31-4	0.0495 JBQ	0.00762	5.74	1
11031	123478-HxCDF	70648-26-9	0.0196 JBQ	0.00958	5.74	1
11031	123678-HxCDF	57117-44-9	0.0222 JB	0.00878	5.74	1
11031	123789-HxCDF	72918-21-9	0.0140 JBQ	0.00982	5.74	1
11031	234678-HxCDF	60851-34-5	0.0193 JBQ	0.00935	5.74	1
11031	1234678-HpCDF	67562-39-4	0.0405 JB	0.0106	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0154 U	0.0154	5.74	1
11031	OCDF	39001-02-0	0.140 JB	0.0411	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA8N-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-106-SA8N-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA8N-SB-2.5-3.5

LLI Sample # SW 6310800
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10011 SDG#: DX100-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 20:44	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0148 U	0.0148	1.14	1
11031	12378-PeCDD	40321-76-4	0.0127 U	0.0127	5.71	1
11031	123478-HxCDD	39227-28-6	0.0193 JB	0.0114	5.71	1
11031	123678-HxCDD	57653-85-7	0.0263 JBQ	0.0119	5.71	1
11031	123789-HxCDD	19408-74-3	0.0412 JB	0.0114	5.71	1
11031	1234678-HpCDD	35822-46-9	0.346 JB	0.0227	5.71	1
11031	OCDD	3268-87-9	1.09 JB	0.0286	11.4	1
11031	2378-TCDF	51207-31-9	0.0124 U	0.0124	1.14	1
11031	12378-PeCDF	57117-41-6	0.0127 JB	0.00654	5.71	1
11031	23478-PeCDF	57117-31-4	0.0340 JB	0.00700	5.71	1
11031	123478-HxCDF	70648-26-9	0.0262 JBQ	0.00906	5.71	1
11031	123678-HxCDF	57117-44-9	0.0144 JBQ	0.00757	5.71	1
11031	123789-HxCDF	72918-21-9	0.0172 JB	0.00894	5.71	1
11031	234678-HxCDF	60851-34-5	0.00677 U	0.00677	5.71	1
11031	1234678-HpCDF	67562-39-4	0.0326 JBQ	0.00734	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0271 JBQ	0.0133	5.71	1
11031	OCDF	39001-02-0	0.0772 JB	0.0321	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	91	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-4.0-5.0

LLI Sample # SW 6310801
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:20

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10012 SDG#: DX100-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 14:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0142 U	0.0142	1.15	1
11031	12378-PeCDD	40321-76-4	0.0144 JBQ	0.0136	5.73	1
11031	123478-HxCDD	39227-28-6	0.0138 U	0.0138	5.73	1
11031	123678-HxCDD	57653-85-7	0.0225 JBQ	0.0140	5.73	1
11031	123789-HxCDD	19408-74-3	0.0326 JBQ	0.0134	5.73	1
11031	1234678-HpCDD	35822-46-9	0.467 JB	0.0282	5.73	1
11031	OCDD	3268-87-9	1.14 JB	0.0287	11.5	1
11031	2378-TCDF	51207-31-9	0.0123 JB	0.0116	1.15	1
11031	12378-PeCDF	57117-41-6	0.0141 JBQ	0.00636	5.73	1
11031	23478-PeCDF	57117-31-4	0.0430 JBQ	0.00601	5.73	1
11031	123478-HxCDF	70648-26-9	0.00717 U	0.00717	5.73	1
11031	123678-HxCDF	57117-44-9	0.00671 U	0.00671	5.73	1
11031	123789-HxCDF	72918-21-9	0.0169 JBQ	0.00821	5.73	1
11031	234678-HxCDF	60851-34-5	0.00726 JB	0.00705	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0327 JBQ	0.00867	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0233 JB	0.0129	5.73	1
11031	OCDF	39001-02-0	0.0856 JBQ	0.0353	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA8N-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA8N-SB-9.0-10.0

LLI Sample # SW 6310802
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 15:55

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

00-13 SDG#: DX100-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 21:40	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0158 U	0.0158	1.11	1
11031	12378-PeCDD	40321-76-4	0.0192 JB	0.0191	5.53	1
11031	123478-HxCDD	39227-28-6	0.0227 U	0.0227	5.53	1
11031	123678-HxCDD	57653-85-7	0.0801 JBQ	0.0235	5.53	1
11031	123789-HxCDD	19408-74-3	0.0803 JB	0.0218	5.53	1
11031	1234678-HpCDD	35822-46-9	1.70 JB	0.0407	5.53	1
11031	OCDD	3268-87-9	16.0 B	0.0381	11.1	1
11031	2378-TCDF	51207-31-9	0.514 JB	0.0783	1.11	1
11031	12378-PeCDF	57117-41-6	1.96 JB	0.0420	5.53	1
11031	23478-PeCDF	57117-31-4	0.0394 U	0.0394	5.53	1
11031	123478-HxCDF	70648-26-9	0.550 JBQ	0.0251	5.53	1
11031	123678-HxCDF	57117-44-9	0.156 JB	0.0231	5.53	1
11031	123789-HxCDF	72918-21-9	0.106 JB	0.0271	5.53	1
11031	234678-HxCDF	60851-34-5	0.0353 JBQ	0.0249	5.53	1
11031	1234678-HpCDF	67562-39-4	0.185 JB	0.0128	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0424 JBQ	0.0182	5.53	1
11031	OCDF	39001-02-0	0.338 JB	0.0347	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP10-SA8N-QC-060811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP10-SA8N-QC-060811 Soil
SSFL Area IV Collocated Soil Sampling
DUP10-SA8N-QC-060811

LLI Sample # SW 6310803
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 10:10

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10014 SDG#: DX100-14FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178001	06/28/2011 22:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11178001	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: EB16-SA8N-SB-060811 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310804
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10015 SDG#: DX100-15EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.360	U	0.360	2.01	1
10915	12378-PeCDD	40321-76-4	0.532	JBQ	0.412	10.1	1
10915	123478-HxCDD	39227-28-6	0.315	JBQ	0.266	10.1	1
10915	123678-HxCDD	57653-85-7	0.289	U	0.289	10.1	1
10915	123789-HxCDD	19408-74-3	0.778	JBQ	0.279	10.1	1
10915	1234678-HpCDD	35822-46-9	6.00	JB	0.396	10.1	1
10915	OCDD	3268-87-9	12.4	JBQ	0.395	20.1	1
10915	2378-TCDF	51207-31-9	0.320	U	0.320	2.01	1
10915	12378-PeCDF	57117-41-6	0.362	JBQ	0.251	10.1	1
10915	23478-PeCDF	57117-31-4	0.947	JBQ	0.226	10.1	1
10915	123478-HxCDF	70648-26-9	0.368	JBQ	0.237	10.1	1
10915	123678-HxCDF	57117-44-9	0.232	U	0.232	10.1	1
10915	123789-HxCDF	72918-21-9	0.249	U	0.249	10.1	1
10915	234678-HxCDF	60851-34-5	0.436	JBQ	0.223	10.1	1
10915	1234678-HpCDF	67562-39-4	1.22	JB	0.163	10.1	1
10915	1234789-HpCDF	55673-89-7	0.343	JB	0.186	10.1	1
10915	OCDF	39001-02-0	1.17	JBQ	0.487	20.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	43	25 - 164
13C12-12378-PeCDD	37	25 - 181
13C12-123478-HxCDD	37	32 - 141
13C12-123678-HxCDD	38	28 - 130
13C12-123789-HxCDD	38	28 - 130
13C12-1234678-HpCDD	38	23 - 140
13C12-OCDD	33	17 - 157
13C12-2378-TCDF	45	24 - 169
13C12-12378-PeCDF	37	24 - 185
13C12-23478-PeCDF	37	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	39	28 - 136
13C12-123789-HxCDF	41	29 - 147
13C12-1234678-HpCDF	36	28 - 143
13C12-1234789-HpCDF	35	26 - 138
13C12-OCDF	32	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB16-SA8N-SB-060811 Water**
SSFL Area IV Collocated Soil Sampling
EB16-SA8N-SB-060811

LLI Sample # WW 6310804
LLI Group # 1250635
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/08/2011 13:45

Submitted: 06/09/2011 09:05
Reported: 07/01/2011 10:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10015 SDG#: DX100-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11161005	06/15/2011 05:30	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11161005	06/11/2011 08:00	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162403A	Sample number(s): 6310788-6310798								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162403B	Sample number(s): 6310799-6310803								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11161005	Sample number(s): 6310804								
2378-TCDD	0.359 J	0.210	2.00	pg/l	94		67-158		
12378-PeCDD	0.608 J	0.242	10.0	pg/l	97		70-142		
123478-HxCDD	0.701 J	0.192	10.0	pg/l	99		70-164		
123678-HxCDD	0.697 J	0.201	10.0	pg/l	100		76-134		
123789-HxCDD	1.10 J	0.200	10.0	pg/l	99		64-162		
1234678-HpCDD	5.46 J	0.278	10.0	pg/l	104		70-140		
OCDD	13.0 J	0.297	20.0	pg/l	106		78-144		
2378-TCDF	0.193 U	0.193	2.00	pg/l	95		75-158		
12378-PeCDF	0.737 J	0.145	10.0	pg/l	99		80-134		
23478-PeCDF	0.940 J	0.137	10.0	pg/l	101		68-160		
123478-HxCDF	0.730 J	0.151	10.0	pg/l	101		72-134		
123678-HxCDF	0.764 J	0.151	10.0	pg/l	99		84-130		
123789-HxCDF	0.850 J	0.155	10.0	pg/l	97		78-130		
234678-HxCDF	0.683 J	0.147	10.0	pg/l	100		70-156		
1234678-HpCDF	1.68 J	0.104	10.0	pg/l	100		82-122		
1234789-HpCDF	1.16 J	0.128	10.0	pg/l	102		78-138		
OCDF	5.00 J	0.345	20.0	pg/l	103		63-170		
Batch number: 11173002	Sample number(s): 6310788-6310798,6310801								
2378-TCDD	0.0163 J	0.0151	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0170 J	0.0148	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0157 J	0.0149	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0303 J	0.0152	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0403 J	0.0142	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.396 J	0.0336	5.00	ng/kg	91		70-140		
OCDD	0.888 J	0.0327	10.0	ng/kg	90		78-144		
2378-TCDF	0.0136 U	0.0136	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0266 J	0.00680	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0451 J	0.00820	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0434 J	0.0125	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0150 J	0.00890	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0235 J	0.0172	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0249 J	0.0114	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.0675 J	0.00910	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0845 J	0.0290	5.00	ng/kg	92		78-138		
OCDF	0.324 J	0.0891	10.0	ng/kg	92		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11178001	Sample number(s): 6310799-6310800,6310802-6310803									
2378-TCDD	0.0123	U	0.0123	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0470	J	0.0141	5.00	ng/kg	88		70-142		
123478-HxCDD	0.0572	J	0.0262	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0570	J	0.0272	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0780	J	0.0258	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.357	J	0.0479	5.00	ng/kg	90		70-140		
OCDD	0.811	J	0.0393	10.0	ng/kg	90		78-144		
2378-TCDF	0.0118	J	0.0111	1.00	ng/kg	91		75-158		
12378-PeCDF	0.0379	J	0.00710	5.00	ng/kg	90		80-134		
23478-PeCDF	0.0563	J	0.00650	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0465	J	0.0129	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0500	J	0.0114	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0771	J	0.0148	5.00	ng/kg	92		78-130		
234678-HxCDF	0.0295	J	0.0119	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.113	J	0.0205	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0781	J	0.0276	5.00	ng/kg	90		78-138		
OCDF	0.234	J	0.0361	10.0	ng/kg	93		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162403A	Sample number(s): 6310788-6310798 BKG: P310775								
Moisture Content by 160.3						11.4	11.6	2	20
Batch number: 11174162403B	Sample number(s): 6310799-6310803 BKG: P313369								
Moisture Content by 160.3						15.3	15.0	1	20
Batch number: 11173002	Sample number(s): 6310788-6310798,6310801 UNSPK: 6310796								
2378-TCDD	84	84	67-158	2	25				
12378-PeCDD	89	90	70-142	2	25				
123478-HxCDD	91	89	70-164	4	25				
123678-HxCDD	90	91	76-134	1	25				
123789-HxCDD	88	90	64-162	1	25				
1234678-HpCDD	90	90	70-140	2	25				
OCDD	91	91	78-144	2	25				
2378-TCDF	93	90	75-158	5	25				
12378-PeCDF	90	90	80-134	2	25				
23478-PeCDF	90	90	68-160	2	25				
123478-HxCDF	94	92	72-134	4	25				
123678-HxCDF	91	91	84-130	3	25				
123789-HxCDF	92	92	78-130	2	25				
234678-HxCDF	92	92	70-156	2	25				
1234678-HpCDF	90	90	82-122	2	25				
1234789-HpCDF	91	92	78-138	1	25				
OCDF	92	93	63-170	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11161005

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6310804	43	37	37	38	39	41
Blank	66	65	65	64	68	71
OPR	69	69	72	71	71	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6310804	36	35	32	84	37	37
Blank	59	57	46	84	65	64
OPR	63	60	48	85	70	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6310804	38	38	38	33	45	37
Blank	65	63	57	46	69	64
OPR	71	71	61	49	69	69
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11173002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6310788	72	68	68	80	71	69
6310789	60	61	61	72	67	62
6310790	59	62	63	72	67	66
6310791	76	75	77	87	84	85
6310792	78	71	72	80	76	69
6310793	76	71	65	72	73	80
6310794	71	67	68	78	70	67
6310795	63	62	64	75	68	63
6310796	69	67	46	51	71	69
6310797	74	70	71	81	74	73
6310798	72	69	71	82	73	66
6310801	72	68	58	69	73	64
Blank	66	56	55	75	59	45
MS	74	70	71	81	74	73
MSD	72	69	71	82	73	66
OPR	53	48	49	65	53	40
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6310788	90	62	55	90	78	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Surrogate Quality Control

6310789	84	55	45	89	69	75
6310790	84	59	51	84	69	74
6310791	95	73	61	102	82	90
6310792	83	59	48	89	78	81
6310793	76	69	61	86	77	78
6310794	84	58	50	85	75	78
6310795	84	56	48	86	70	76
6310796	65	63	58	84	74	78
6310797	89	62	51	87	76	79
6310798	91	55	44	88	75	80
6310801	84	56	47	91	76	81
Blank	97	38	28	86	73	76
MS	89	62	51	87	76	79
MSD	91	55	44	88	75	80
OPR	83	33	23	78	58	64
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6310788	79	81	80	74	63	76
6310789	75	77	75	68	53	66
6310790	73	75	76	70	52	66
6310791	89	91	90	80	69	81
6310792	80	82	77	69	72	80
6310793	77	78	76	70	71	75
6310794	76	79	76	69	63	74
6310795	75	77	76	68	54	67
6310796	77	79	77	72	62	71
6310797	78	81	80	73	68	78
6310798	78	80	76	69	66	77
6310801	80	82	81	72	65	78
Blank	75	76	76	69	53	71
MS	78	81	80	73	68	78
MSD	78	80	76	69	66	77
OPR	63	64	64	56	45	59
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11178001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6310799	69	65	71	76	73	74
6310800	63	60	65	70	65	70
6310802	70	64	68	74	70	71
6310803	67	62	66	73	68	70
Blank	76	72	75	81	78	77
OPR	66	65	70	76	72	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6310799	82	66	62	83	72	79
6310800	75	62	57	75	66	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250635
Reported: 07/01/11 at 10:41 AM

Surrogate Quality Control

6310802	78	64	59	79	71	76
6310803	75	64	60	77	68	74
Blank	86	76	73	91	78	85
OPR	86	69	66	85	73	82
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6310799	78	80	78	74	62	68
6310800	71	72	72	68	57	62
6310802	75	75	74	69	63	67
6310803	73	74	74	70	60	64
Blank	82	85	86	82	68	72
OPR	79	82	84	81	57	66
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1250635 Sample# 6310788-804

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-023-SA5DN-SB-4.5	06.08.11	1110	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-4.0-5.0	06.08.11	1115	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-023-SA5DN-SB-20.5	06.08.11	1120	SOIL	NONE	5-Encores										X	X	X										
SL-023-SA5DN-SB-20.0-21.0	06.08.11	1130	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-4.5	06.08.11	0925	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-4.0-5.0	06.08.11	0930	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-025-SA5DN-SB-23.5	06.08.11	0935	SOIL	NONE	5-Encores										X	X	X										
SL-025-SA5DN-SB-23.0-24.0	06.08.11	0940	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-4.5	06.08.11	1400	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-4.0-5.0	06.08.11	1410	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-028-SA5DN-SB-12.0	06.08.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-028-SA5DN-SB-11.5-12.5	06.08.11	1420	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-061-SA5DN-SB-4.5	06.08.11	1520	SOIL	NONE	5-Encores										X	X	X										
SL-061-SA5DN-SB-4.0-5.0	06.08.11	1525	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-061-SA5DN-SB-14.5	06.08.11	1530	SOIL	NONE	5-Encores										X	X	X										
SL-061-SA5DN-SB-14.0-15.0	06.08.11	1535	SOIL	NONE	4-16 oz. jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/08/2011 / 1700	6PM 905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3339 9202,9213,9224, 9235	

acct# 13013 Cap# 1250635 sample# 6310788-804

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vedal Carter

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diazin/Furan EPA 8015B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs#EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-076-SA8N-SB-4.5MS	06.08.11	1000	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-076-SA8N-SB-4.0-5.0MS	06.08.11	1005	SOIL	NONE	6-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD Hand Auger Sample-only 6 jars
SL-076-SA8N-SB-8.0	06.08.11	1355	SOIL	NONE	5-Encores										X	X	X										
SL-076-SA8N-SB-7.5-8.5	06.08.11	1400	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-9.0	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-7.5-8.5	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-4.5	06.08.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-4.0-5.0	06.08.11	1520	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
SL-109-SA8N-SB-9.5	06.08.11	1550	SOIL	NONE	5-Encores										X	X	X										
SL-109-SA8N-SB-9.0-10.0	06.08.11	1555	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
DUP10-SA8N-DC-060811	06.08.11	1010	SOIL	NONE	5-Encores										X	X	X										
DUP10-SA8N-DC-060811	06.08.11	1010	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060811	06.08.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/08/2011 / 1700	Mary Hoke 6/9/11 905	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3339 9202,9213,9224, 9235	

acct# 13013 Cap# 1250635 Sample# 6310788-804

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									VOCs			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	
Samplers Signatures:																			
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers														
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	5-1 L Ambers				X	X	X								
EB16-SA8N-SB-060811	06.08.11	1345	WATER	NONE	1-500mL plastic			X				X	X	X					
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HNO3	1-500 poly		X												
EB16-SA8N-SB-060811	06.08.11	1345	WATER	HCL	6-40mL Vials											X	X		
Relinquished by: (*Signature*)	Date/Time 06/08/2011 / 1700		Received for Laboratory by: (*Signature*) Gary Hatch 6/9/11 905																Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3339 9202,9213,9224																

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/10/2011
Group Number: 1250864
SDG: DE177
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-037-SA5DN-SB-4.0-5.0 Soil	6312169
SL-037-SA5DN-SB-11.5-12.5 Soil	6312170
SL-038-SA5DN-SB-4.0-5.0 Soil	6312171
SL-038-SA5DN-SB-10.5-11.5 Soil	6312172
SL-039-SA5DN-SB-4.0-5.0 Soil	6312173
SL-039-SA5DN-SB-11.5-12.5 Soil	6312174
SL-040-SA5DN-SB-4.0-5.0 Soil	6312175
SL-040-SA5DN-SB-10.5-11.5 Soil	6312176
SL-050-SA5DN-SB-4.0-5.0 Soil	6312177
SL-050-SA5DN-SB-11.2-12.5 Soil	6312178
SL-116-SA8N-SB-4.0-5.0 Soil	6312179
TB-060911 Water	6312180
EB17-SA8N-SB-060911 Water	6312181
EB16-SA5DN-SB-060911 Water	6312182

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.85
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.85
06192	Methylene Chloride	75-09-2	1.5	J	0.25	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.85

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.85
06192	Toluene	108-88-3	0.15	J	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.85
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		21.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	42.7		20.3	40.6		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	200	U	200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	20	410		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.3	U	7.3	22		1
10138	Di-n-butylphthalate	84-74-2	7.3	U	7.3	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.3	U	7.3	22		1
10138	Dimethylphthalate	131-11-3	7.3	U	7.3	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.3	U	7.3	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	96	U	96	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	96	U	96	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	960	U	960	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	96	U	96	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	96	U	96	140	10000000	1
10132	PETN	78-11-5	960	U	960	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	73	U	73	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.48	U	0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C15-C20)	n.a.	0.49	U	0.49	1.5		1
10199	EFH (C21-C30)	n.a.	2.2		0.49	1.5		1
10199	EFH (C30 - C40)	n.a.	4.6		0.49	1.5		1
10199	EFH (C8-C11)	n.a.	0.49	U	0.49	1.5		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	12		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	12		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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17701 SDG#: DE177-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,800		7.02	23.2		1
07914	Boron	7440-42-8	8.14		0.418	5.80		1
01650	Calcium	7440-70-2	7,110		2.90	23.2		1
01654	Iron	7439-89-6	35,300		6.06	46.4		2
01656	Lithium	7439-93-2	24.8		0.72	2.3		1
01657	Magnesium	7439-95-4	6,790		0.510	11.6		1
06958	Manganese	7439-96-5	452		0.0418	0.580		1
10145	Phosphorus	7723-14-0	286		0.406	11.6		1
01662	Potassium	7440-09-7	4,100		13.1	58.0		1
01667	Sodium	7440-23-5	327		6.90	116		1
07968	Strontium	7440-24-6	36.5		0.0290	0.580		1
06969	Tin	7440-31-5	2.91	J	0.371	11.6		1
06970	Titanium	7440-32-6	891		0.0856	1.21		1
10146	Zirconium	7440-67-7	3.69	J	0.534	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.329		0.0867	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.17		0.0937	0.468		2
06126	Barium	7440-39-3	146		0.124	0.468		2
06127	Beryllium	7440-41-7	0.848		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.271		0.0515	0.117		2
06131	Chromium	7440-47-3	36.2		0.141	0.468		2
06132	Cobalt	7440-48-4	11.6		0.0234	0.117		2
06133	Copper	7440-50-8	20.6		0.0937	0.468		2
06135	Lead	7439-92-1	9.77		0.0123	0.241		2
06138	Molybdenum	7439-98-7	0.550		0.0586	0.117		2
06139	Nickel	7440-02-0	23.9		0.117	0.468		2
06141	Selenium	7782-49-2	0.230	J	0.0679	0.468		2
06142	Silver	7440-22-4	0.0533	J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.391		0.0351	0.117		2
06148	Vanadium	7440-62-2	69.2		0.0258	0.117		2
06149	Zinc	7440-66-6	77.3		0.656	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084	J	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.97	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.24	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.57		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.16		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	17.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011	04:14	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011	15:56	Jason M Long	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011	13:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011	14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011	14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011	13:53	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011	18:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011	06:48	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011	10:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011	14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011	07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011	18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011	14:59	Marie D John	21.19

*=This limit was used in the evaluation of the final result
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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 13:53	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/17/2011 19:52	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:11	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 09:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 00:25	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 22:13	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 09:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 19:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	2	111685708002	06/23/2011 02:52	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:23	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 02:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 09:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 09:54	Choon Y Tian	2

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Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312169
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17701 SDG#: DE177-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 06:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 16:17	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:31	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.87
06192	Methylene Chloride	75-09-2	2.0	J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.87

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.87
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.87

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.

GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	27.7	J	18.4	36.8		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.62	J	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		6.63	21.9		1
07914	Boron	7440-42-8	2.56	J	0.394	5.48		1
01650	Calcium	7440-70-2	26,700		2.74	21.9		1
01654	Iron	7439-89-6	34,500		5.72	43.8		2
01656	Lithium	7439-93-2	32.5		0.68	2.2		1
01657	Magnesium	7439-95-4	6,990		0.482	11.0		1
06958	Manganese	7439-96-5	237		0.0394	0.548		1
10145	Phosphorus	7723-14-0	424		0.383	11.0		1
01662	Potassium	7440-09-7	2,190		12.4	54.8		1
01667	Sodium	7440-23-5	378		6.52	110		1
07968	Strontium	7440-24-6	39.0		0.0274	0.548		1
06969	Tin	7440-31-5	3.16	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,100		0.0778	1.10		1
10146	Zirconium	7440-67-7	3.33	J	0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0811	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.41		0.0876	0.438		2
06126	Barium	7440-39-3	113		0.116	0.438		2
06127	Beryllium	7440-41-7	0.926		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.119		0.0482	0.110		2
06131	Chromium	7440-47-3	29.2		0.131	0.438		2
06132	Cobalt	7440-48-4	8.02		0.0219	0.110		2
06133	Copper	7440-50-8	16.8		0.0876	0.438		2
06135	Lead	7439-92-1	13.3		0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.413		0.0548	0.110		2
06139	Nickel	7440-02-0	18.1		0.110	0.438		2
06141	Selenium	7782-49-2	0.161	J	0.0635	0.438		2
06142	Silver	7440-22-4	0.0679	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.314		0.0329	0.110		2
06148	Vanadium	7440-62-2	51.0		0.0241	0.110		2
06149	Zinc	7440-66-6	68.9		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0157	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	1.0	U	1.0	2.8		5
	Reporting limits were raised due to interference from the sample matrix.							
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA5DN-SB-12.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 04:36	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 16:16	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 13:57	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 13:56	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 20:02	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 09:54	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 13:26	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 15:35	Marie D John	21.19

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Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 13:56	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/17/2011 23:24	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:39	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 09:58	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/24/2011 22:35	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 22:28	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 09:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 19:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:13	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:01	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:22	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 09:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 09:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 09:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312170
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17702 SDG#: DE177-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 09:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:41	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 07:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 16:23	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:57	K Robert Caulfeild-James	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.89
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.89
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.89
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.1		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.89
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.1		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.89
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.89
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.1		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.89
06192	Methylene Chloride	75-09-2	1.6	J	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.89

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.89
06192	Toluene	108-88-3	0.13	J	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.5	U	6.5	20		28.09
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	194	U	194	387		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.81	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	8.8	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	1.3	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.97	J	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.91	J	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.12
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	2.0		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	4.6	U	4.6	14		10
10199	EFH (C21-C30)	n.a.	88		4.6	14		10
10199	EFH (C30 - C40)	n.a.	200		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,000		6.69	22.1		1
07914	Boron	7440-42-8	7.88		0.398	5.53		1
01650	Calcium	7440-70-2	9,350		2.77	22.1		1
01654	Iron	7439-89-6	32,500		5.77	44.2		2
01656	Lithium	7439-93-2	25.9		0.69	2.2		1
01657	Magnesium	7439-95-4	7,260		0.487	11.1		1
06958	Manganese	7439-96-5	391		0.0398	0.553		1
10145	Phosphorus	7723-14-0	273		0.387	11.1		1
01662	Potassium	7440-09-7	3,890		12.5	55.3		1
01667	Sodium	7440-23-5	221		6.58	111		1
07968	Strontium	7440-24-6	44.0		0.0277	0.553		1
06969	Tin	7440-31-5	2.43	J	0.354	11.1		1
06970	Titanium	7440-32-6	954		0.0801	1.13		1
10146	Zirconium	7440-67-7	3.29	J	0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.302		0.0859	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.91		0.0929	0.465		2
06126	Barium	7440-39-3	189		0.123	0.465		2
06127	Beryllium	7440-41-7	1.06		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.455		0.0511	0.116		2
06131	Chromium	7440-47-3	36.4		0.139	0.465		2
06132	Cobalt	7440-48-4	13.8		0.0232	0.116		2
06133	Copper	7440-50-8	21.0		0.0929	0.465		2
06135	Lead	7439-92-1	18.3		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.626		0.0581	0.116		2
06139	Nickel	7440-02-0	27.3		0.116	0.465		2
06141	Selenium	7782-49-2	0.229	J	0.0674	0.465		2
06142	Silver	7440-22-4	0.0623	J	0.0165	0.116		2
06145	Thallium	7440-28-0	0.444		0.0348	0.116		2
06148	Vanadium	7440-62-2	65.5		0.0256	0.116		2
06149	Zinc	7440-66-6	105		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0332	J	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-038-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 04:59	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 16:35	Jason M Long	28.09
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:01	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:00	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 20:20	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 10:20	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 14:07	Joseph M Gambler	1

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SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
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17703 SDG#: DE177-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 16:11	Marie D John	22.12
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:00	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 00:07	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:49	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 10:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 04:58	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 22:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 09:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 03:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:16	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:27	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:34	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2

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SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312171
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17703 SDG#: DE177-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 08:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 16:40	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:54	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.88
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.88
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.88
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.88
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.88
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.88
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.88
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.88
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.88
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.88
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.88
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.88
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.88
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.88
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.88
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.88
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.88
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.88
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.88
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.88
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.88
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.88
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.88
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.88
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.88
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.88
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.88
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.88
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.88
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.88
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.88
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.88
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.88
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.88
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.88
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.88
06192	Methylene Chloride	75-09-2	1.9	J	0.23	3.9		0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.88

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.88
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.88
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.88
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.88
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.88
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.88
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.88
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.88
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.88
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.88
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.88
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.5	U	4.5	14		20.36
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	369		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
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17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

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17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.83
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.49	J	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.59	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		6.44	21.3		1
07914	Boron	7440-42-8	2.26	J	0.383	5.32		1
01650	Calcium	7440-70-2	7,530		2.66	21.3		1
01654	Iron	7439-89-6	19,800		2.78	21.3		1
01656	Lithium	7439-93-2	20.1		0.66	2.1		1
01657	Magnesium	7439-95-4	3,730		0.468	10.6		1
06958	Manganese	7439-96-5	134		0.0383	0.532		1
10145	Phosphorus	7723-14-0	129		0.372	10.6		1
01662	Potassium	7440-09-7	1,820		12.0	53.2		1
01667	Sodium	7440-23-5	215		6.33	106		1
07968	Strontium	7440-24-6	18.4		0.0266	0.532		1
06969	Tin	7440-31-5	2.55	J	0.340	10.6		1
06970	Titanium	7440-32-6	992		0.0763	1.07		1
10146	Zirconium	7440-67-7	2.33	J	0.489	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.165	J	0.0810	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.27		0.0876	0.438		2
06126	Barium	7440-39-3	73.3		0.116	0.438		2
06127	Beryllium	7440-41-7	0.721		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0777	J	0.0482	0.110		2
06131	Chromium	7440-47-3	20.0		0.131	0.438		2
06132	Cobalt	7440-48-4	6.77		0.0219	0.110		2
06133	Copper	7440-50-8	9.57		0.0876	0.438		2
06135	Lead	7439-92-1	6.66		0.0108	0.213		2
06138	Molybdenum	7439-98-7	0.280		0.0548	0.110		2
06139	Nickel	7440-02-0	11.5		0.110	0.438		2
06141	Selenium	7782-49-2	0.0635	U	0.0635	0.438		2
06142	Silver	7440-22-4	0.0162	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.275		0.0329	0.110		2
06148	Vanadium	7440-62-2	39.8		0.0241	0.110		2
06149	Zinc	7440-66-6	47.1		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.88	1.7		1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-038-SA5DN-SB-11.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 05:21	Angela D Sneeringer	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 16:55	Jason M Long	20.36
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:04	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	07/01/2011 12:20	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 10:47	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 15:30	Joseph M Gambler	1

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 16:48	Marie D John	20.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:03	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 00:49	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 03:58	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:23	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 10:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/24/2011 23:59	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 23:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:09	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 20:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:37	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:38	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2

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Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312172
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17704 SDG#: DE177-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 02:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 02:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 08:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 16:45	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 08:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.91
06192	Bromoform	75-25-2	0.43	U	0.43	4.2		0.91
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.91
06192	Methylene Chloride	75-09-2	1.8	J	0.25	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.13	J	0.09	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.4
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	192	U	192	384		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.0		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.9		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	8.8	J	7.0	21		1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	3.6		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	3.7		0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	1.1	J	0.78	1.9		1
10138	Pyrene	129-00-0	3.2		0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	2.3	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.4	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	18		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	46		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,900		7.07	23.4		1
07914	Boron	7440-42-8	8.30		0.421	5.84		1
01650	Calcium	7440-70-2	11,000		2.92	23.4		1
01654	Iron	7439-89-6	35,600		6.10	46.7		2
01656	Lithium	7439-93-2	27.7		0.72	2.3		1
01657	Magnesium	7439-95-4	7,490		0.514	11.7		1
06958	Manganese	7439-96-5	387		0.0421	0.584		1
10145	Phosphorus	7723-14-0	298		0.409	11.7		1
01662	Potassium	7440-09-7	3,920		13.2	58.4		1
01667	Sodium	7440-23-5	358		6.95	117		1
07968	Strontium	7440-24-6	43.6		0.0292	0.584		1
06969	Tin	7440-31-5	3.03	J	0.374	11.7		1
06970	Titanium	7440-32-6	938		0.0805	1.13		1
10146	Zirconium	7440-67-7	4.91	J	0.537	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.480		0.0839	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.80		0.0907	0.454		2
06126	Barium	7440-39-3	156		0.301	1.13		5
06127	Beryllium	7440-41-7	1.16		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.395		0.0499	0.113		2
06131	Chromium	7440-47-3	44.2		0.136	0.454		2
06132	Cobalt	7440-48-4	14.3		0.0227	0.113		2
06133	Copper	7440-50-8	25.0		0.0907	0.454		2
06135	Lead	7439-92-1	13.1		0.0119	0.234		2
06138	Molybdenum	7439-98-7	0.638		0.0567	0.113		2
06139	Nickel	7440-02-0	32.3		0.113	0.454		2
06141	Selenium	7782-49-2	0.113	J	0.0658	0.454		2
06142	Silver	7440-22-4	0.0890	J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.447		0.0340	0.113		2
06148	Vanadium	7440-62-2	79.8		0.0250	0.113		2
06149	Zinc	7440-66-6	107		0.635	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0355	J	0.0078	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.4		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.44		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-039-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 05:44	Angela D Sneeringer	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 17:15	Jason M Long	21.4
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:08	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	07/01/2011 12:39	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 11:13	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 16:10	Joseph M Gambler	1

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 17:24	Marie D John	21.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:08	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 01:31	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:08	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 12:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 04:08	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 23:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:22	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 04:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:20	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:41	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 15:14	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2

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Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312173
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17705 SDG#: DE177-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 02:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 02:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 09:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 16:57	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201A	06/20/2011 09:02	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201A	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.85
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.48	U	0.48	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	2.1	J	0.23	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.85
06192	Toluene	108-88-3	0.15	J	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.04
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.7	U	18.7	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.9		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	2.2		0.38	1.9		1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	2.0		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	1.7	J	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.5	U	4.5	14		10
10199	EFH (C15-C20)	n.a.	4.5	U	4.5	14		10
10199	EFH (C21-C30)	n.a.	100		4.5	14		10
10199	EFH (C30 - C40)	n.a.	300		4.5	14		10
10199	EFH (C8-C11)	n.a.	4.5	U	4.5	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		6.87	22.7		1
07914	Boron	7440-42-8	2.61	J	0.409	5.68		1
01650	Calcium	7440-70-2	26,100		2.84	22.7		1
01654	Iron	7439-89-6	22,200		2.96	22.7		1
01656	Lithium	7439-93-2	22.6		0.70	2.3		1
01657	Magnesium	7439-95-4	4,300		0.499	11.4		1
06958	Manganese	7439-96-5	218		0.0409	0.568		1
10145	Phosphorus	7723-14-0	269		0.397	11.4		1
01662	Potassium	7440-09-7	1,950		12.8	56.8		1
01667	Sodium	7440-23-5	258		6.75	114		1
07968	Strontium	7440-24-6	42.0		0.0284	0.568		1
06969	Tin	7440-31-5	2.56	J	0.363	11.4		1
06970	Titanium	7440-32-6	1,040		0.0806	1.14		1
10146	Zirconium	7440-67-7	2.98	J	0.522	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.50		0.0873	0.437		2
06126	Barium	7440-39-3	95.5		0.116	0.437		2
06127	Beryllium	7440-41-7	0.773		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.185		0.0480	0.109		2
06131	Chromium	7440-47-3	30.0		0.131	0.437		2
06132	Cobalt	7440-48-4	5.92		0.0218	0.109		2
06133	Copper	7440-50-8	9.58		0.0873	0.437		2
06135	Lead	7439-92-1	6.16		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.370		0.0546	0.109		2
06139	Nickel	7440-02-0	13.0		0.109	0.437		2
06141	Selenium	7782-49-2	0.0633	U	0.0633	0.437		2
06142	Silver	7440-22-4	0.135		0.0155	0.109		2
06145	Thallium	7440-28-0	0.264		0.0327	0.109		2
06148	Vanadium	7440-62-2	41.4		0.0240	0.109		2
06149	Zinc	7440-66-6	48.7		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.69	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-039-SA5DN-SB-12.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 06:06	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 17:35	Jason M Long	21.04
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:35	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:11	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 21:15	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 11:40	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/29/2011 16:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 19:14	Marie D John	21.48

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:11	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 02:14	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:27	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 12:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 01:40	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/10/2011 23:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/15/2011 21:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:15	Choon Y Tian	2

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Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312174
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17706 SDG#: DE177-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 02:40	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 02:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 09:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 17:08	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 09:04	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11166039401B	06/15/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.85
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	2.2	J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.17	J	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.78
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	194	U	194	388		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.8	J	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	1.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	2.3		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	2.1		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.51
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	27		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	66		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,900		6.71	22.2		1
07914	Boron	7440-42-8	8.21		0.399	5.54		1
01650	Calcium	7440-70-2	10,700		2.77	22.2		1
01654	Iron	7439-89-6	33,000		5.79	44.3		2
01656	Lithium	7439-93-2	24.6		0.69	2.2		1
01657	Magnesium	7439-95-4	6,690		0.488	11.1		1
06958	Manganese	7439-96-5	372		0.0399	0.554		1
10145	Phosphorus	7723-14-0	259		0.388	11.1		1
01662	Potassium	7440-09-7	3,720		12.5	55.4		1
01667	Sodium	7440-23-5	273		6.60	111		1
07968	Strontium	7440-24-6	41.5		0.0277	0.554		1
06969	Tin	7440-31-5	3.44	J	0.355	11.1		1
06970	Titanium	7440-32-6	1,100		0.0795	1.12		1
10146	Zirconium	7440-67-7	4.28	J	0.510	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.349		0.0836	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.56		0.0904	0.452		2
06126	Barium	7440-39-3	154		0.120	0.452		2
06127	Beryllium	7440-41-7	0.872		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.380		0.0497	0.113		2
06131	Chromium	7440-47-3	33.7		0.136	0.452		2
06132	Cobalt	7440-48-4	12.5		0.0226	0.113		2
06133	Copper	7440-50-8	18.8		0.0904	0.452		2
06135	Lead	7439-92-1	14.1		0.0118	0.231		2
06138	Molybdenum	7439-98-7	0.588		0.0565	0.113		2
06139	Nickel	7440-02-0	25.2		0.113	0.452		2
06141	Selenium	7782-49-2	0.163	J	0.0656	0.452		2
06142	Silver	7440-22-4	0.0528	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.333		0.0339	0.113		2
06148	Vanadium	7440-62-2	63.1		0.0249	0.113		2
06149	Zinc	7440-66-6	93.1		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0154	J	0.0078	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
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17707 SDG#: DE177-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 06:28	Angela D Sneeringer	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 17:55	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:16	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 21:33	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 12:06	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 08:39	Joseph M Gambler	1

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Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
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Project Name: SSFL Area IV Collocated Soil Sampling

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17707 SDG#: DE177-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 13:10	Marie D John	21.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:16	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 02:56	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:37	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 13:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 04:33	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/11/2011 00:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 10:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 04:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:23	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312175
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17707 SDG#: DE177-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201B	06/22/2011 02:54	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201B	06/22/2011 02:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 09:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 17:26	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:43	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201B	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		7.0	8.4		0.99
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.99
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.99
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.99
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.99
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.99
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.99
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.99
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.99
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.99
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.99
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.99
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.99
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.99
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.99
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.99
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.99
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.99
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.99
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.99
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.99
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.99
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.99
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.99
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.99
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.99
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.99
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.99
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.99
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.99
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.99
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.99
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.99
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.99
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.99
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.99
06192	Methylene Chloride	75-09-2	3.4	J	0.25	4.2		0.99
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.99

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.99
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.99
06192	Toluene	108-88-3	0.22	J	0.08	4.2		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.99
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.99
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.99
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.99
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.99
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.99
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		21.82
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	355		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	180	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	1.4	J	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	28		0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	25		0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	34		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	13		0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	31		0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	4.5		0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	31		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	11		0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	6.7		0.71	1.8		1
10138	Pyrene	129-00-0	25		0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	4.5		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	2,970		6.26	20.7		1
07914	Boron	7440-42-8	1.93	J	0.373	5.18		1
01650	Calcium	7440-70-2	18,800		2.59	20.7		1
01654	Iron	7439-89-6	4,320		2.70	20.7		1
01656	Lithium	7439-93-2	1.3	J	0.64	2.1		1
01657	Magnesium	7439-95-4	893		0.455	10.4		1
06958	Manganese	7439-96-5	126		0.0373	0.518		1
10145	Phosphorus	7723-14-0	324		0.362	10.4		1
01662	Potassium	7440-09-7	459		11.7	51.8		1
01667	Sodium	7440-23-5	164		6.16	104		1
07968	Strontium	7440-24-6	33.5		0.0259	0.518		1
06969	Tin	7440-31-5	1.83	J	0.331	10.4		1
06970	Titanium	7440-32-6	189		0.0735	1.04		1
10146	Zirconium	7440-67-7	1.74	J	0.476	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0759	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.50		0.0820	0.410		2
06126	Barium	7440-39-3	21.0		0.109	0.410		2
06127	Beryllium	7440-41-7	0.143		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.0879	J	0.0451	0.103		2
06131	Chromium	7440-47-3	12.4		0.123	0.410		2
06132	Cobalt	7440-48-4	1.99		0.0205	0.103		2
06133	Copper	7440-50-8	2.61		0.0820	0.410		2
06135	Lead	7439-92-1	2.01		0.0106	0.207		2
06138	Molybdenum	7439-98-7	0.618		0.0513	0.103		2
06139	Nickel	7440-02-0	6.64		0.103	0.410		2
06141	Selenium	7782-49-2	0.0595	U	0.0595	0.410		2
06142	Silver	7440-22-4	0.0146	U	0.0146	0.103		2
06145	Thallium	7440-28-0	0.0308	U	0.0308	0.103		2
06148	Vanadium	7440-62-2	12.9		0.0226	0.103		2
06149	Zinc	7440-66-6	10.1		0.574	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17708 SDG#: DE177-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.82		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-040-SA5DN-SB-10.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 06:51	Angela D Sneeringer	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 18:15	Jason M Long	21.82
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:20	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:20	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 21:51	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 12:33	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 09:10	Joseph M Gambler	1

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

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17708 SDG#: DE177-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 19:50	Marie D John	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:19	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 03:39	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:46	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 13:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 00:50	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/11/2011 00:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 11:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 00:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:52	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2

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Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312176
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
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17708 SDG#: DE177-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 07:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/21/2011 23:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/21/2011 23:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 10:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 17:43	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:44	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.4		0.92
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.92
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.92
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.92
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.92
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.92
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.92
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.92
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.92
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.92
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.92
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.92
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.92
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.92
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.92
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.92
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.92
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.92
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.92
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.92
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.92
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.92
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.92
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.92
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.92
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.92
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.92
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.92
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.92
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.92
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.92
06192	Methylene Chloride	75-09-2	1.7	J	0.25	4.2		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.92

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.92
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.92
06192	Toluene	108-88-3	0.17	J	0.08	4.2		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.92
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.92
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.92
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.92
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.92
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.92
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.2
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1

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Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1

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Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,800		6.78	22.4		1
07914	Boron	7440-42-8	8.54		0.403	5.60		1
01650	Calcium	7440-70-2	8,320		2.80	22.4		1
01654	Iron	7439-89-6	35,700		5.85	44.8		2
01656	Lithium	7439-93-2	28.1		0.69	2.2		1
01657	Magnesium	7439-95-4	7,670		0.493	11.2		1
06958	Manganese	7439-96-5	372		0.0403	0.560		1
10145	Phosphorus	7723-14-0	251		0.392	11.2		1
01662	Potassium	7440-09-7	3,610		12.7	56.0		1
01667	Sodium	7440-23-5	572		6.67	112		1
07968	Strontium	7440-24-6	41.2		0.0280	0.560		1
06969	Tin	7440-31-5	2.73	J	0.359	11.2		1
06970	Titanium	7440-32-6	1,280		0.0803	1.13		1
10146	Zirconium	7440-67-7	5.87		0.515	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.198	J	0.0837	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.57		0.0905	0.453		2
06126	Barium	7440-39-3	127		0.120	0.453		2
06127	Beryllium	7440-41-7	0.892		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.231		0.0498	0.113		2
06131	Chromium	7440-47-3	33.3		0.136	0.453		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	10.7	0.0226	0.113		2
06133	Copper	7440-50-8	16.8	0.0905	0.453		2
06135	Lead	7439-92-1	13.7	0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.369	0.0566	0.113		2
06139	Nickel	7440-02-0	22.7	0.113	0.453		2
06141	Selenium	7782-49-2	0.0900 J	0.0656	0.453		2
06142	Silver	7440-22-4	0.0407 J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.340	0.0339	0.113		2
06148	Vanadium	7440-62-2	54.7	0.0249	0.113		2
06149	Zinc	7440-66-6	69.5	0.634	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074 U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	25.8	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-050-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 07:13	Angela D Sneeringer	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 18:35	Jason M Long	22.2
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:23	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:23	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 16:29	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 09:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 13:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:34	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 18:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 03:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312177
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17709 SDG#: DE177-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 00:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 10:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 18:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1

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Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		6.67	22.1		1
07914	Boron	7440-42-8	4.30	J	0.397	5.51		1
01650	Calcium	7440-70-2	13,500		2.76	22.1		1
01654	Iron	7439-89-6	23,500		2.88	22.1		1
01656	Lithium	7439-93-2	23.5		0.68	2.2		1
01657	Magnesium	7439-95-4	5,090		0.485	11.0		1
06958	Manganese	7439-96-5	271		0.0397	0.551		1
10145	Phosphorus	7723-14-0	251		0.386	11.0		1
01662	Potassium	7440-09-7	2,990		12.5	55.1		1
01667	Sodium	7440-23-5	477		6.56	110		1
07968	Strontium	7440-24-6	29.9		0.0276	0.551		1
06969	Tin	7440-31-5	2.49	J	0.353	11.0		1
06970	Titanium	7440-32-6	1,160		0.0768	1.08		1
10146	Zirconium	7440-67-7	3.83	J	0.507	5.51		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.246		0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.85		0.0873	0.437		2
06126	Barium	7440-39-3	75.3		0.116	0.437		2
06127	Beryllium	7440-41-7	0.799		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.218		0.0480	0.109		2
06131	Chromium	7440-47-3	28.0		0.131	0.437		2
06132	Cobalt	7440-48-4	10.0		0.0218	0.109		2
06133	Copper	7440-50-8	14.8		0.0873	0.437		2
06135	Lead	7439-92-1	10.5		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.406		0.0546	0.109		2
06139	Nickel	7440-02-0	22.4		0.109	0.437		2
06141	Selenium	7782-49-2	0.0633	U	0.0633	0.437		2
06142	Silver	7440-22-4	0.0408	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.328		0.0328	0.109		2
06148	Vanadium	7440-62-2	51.6		0.0240	0.109		2
06149	Zinc	7440-66-6	63.1		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.4		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011	16:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011	10:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011	07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011	18:30	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011	13:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011	18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011	18:59	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011	04:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011	10:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011	10:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011	10:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011	10:27	Choon Y Tian	2

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312178
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17710 SDG#: DE177-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 00:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201A	06/22/2011 11:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 18:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201A	06/21/2011 06:40	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

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Analysis Report

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2	U	6.2	7.4		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.8
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.8
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.8
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.8
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.8
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.8
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.8
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.8
06192	Methylene Chloride	75-09-2	1.8	J	0.22	3.7		0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7		0.8

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7		0.8
06192	Toluene	108-88-3	0.17	J	0.07	3.7		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.8
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.46
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	192	U	192	384		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1

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Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 21.5 ug/kg. The blank value was not subtracted from the analytical result.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1

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Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1

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Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	4.4		1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	1.1	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.51	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	5.0		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.7		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		6.84	22.6		1
07914	Boron	7440-42-8	3.16	J	0.407	5.65		1
01650	Calcium	7440-70-2	3,400		2.83	22.6		1
01654	Iron	7439-89-6	22,400		2.95	22.6		1
01656	Lithium	7439-93-2	26.4		0.70	2.3		1
01657	Magnesium	7439-95-4	5,620		0.498	11.3		1
06958	Manganese	7439-96-5	212		0.0407	0.565		1
10145	Phosphorus	7723-14-0	490		0.396	11.3		1
01662	Potassium	7440-09-7	3,240		12.8	56.5		1
01667	Sodium	7440-23-5	101	J	6.73	113		1
07968	Strontium	7440-24-6	20.6		0.0283	0.565		1
06969	Tin	7440-31-5	2.60	J	0.362	11.3		1
06970	Titanium	7440-32-6	1,140		0.0803	1.13		1
10146	Zirconium	7440-67-7	2.73	J	0.520	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0821	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.22		0.0887	0.444		2
06126	Barium	7440-39-3	109		0.118	0.444		2
06127	Beryllium	7440-41-7	0.690		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.213		0.0488	0.111		2
06131	Chromium	7440-47-3	25.4		0.133	0.444		2
06132	Cobalt	7440-48-4	7.31		0.0222	0.111		2
06133	Copper	7440-50-8	14.3		0.0887	0.444		2
06135	Lead	7439-92-1	12.5		0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.639		0.0555	0.111		2
06139	Nickel	7440-02-0	16.8		0.111	0.444		2
06141	Selenium	7782-49-2	0.144	J	0.0643	0.444		2
06142	Silver	7440-22-4	0.0783	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.345		0.0333	0.111		2
06148	Vanadium	7440-62-2	48.3		0.0244	0.111		2
06149	Zinc	7440-66-6	78.5		0.621	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

17711 SDG#: DE177-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.6		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43	J	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	6.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-116-SA8N-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 07:35	Angela D Sneeringer	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 18:55	Jason M Long	20.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:31	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116124635	06/10/2011 14:36	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116124635	06/10/2011 14:30	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11165SLE026	06/30/2011 22:09	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11166SLA026	06/23/2011 17:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11166SLC026	06/30/2011 10:44	Joseph M Gambler	1

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Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17711 SDG#: DE177-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11165SLE026	06/14/2011 14:00	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11166SLC026	06/16/2011 07:10	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11166SLA026	06/15/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 20:26	Marie D John	20.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116124635	06/10/2011 14:30	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640009A	06/18/2011 04:21	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 04:56	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111650017A	06/16/2011 14:18	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111650017A	06/14/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640009A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111730006A	06/25/2011 01:15	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111610018A	06/11/2011 00:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111610017A	06/13/2011 11:13	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111640015A	06/16/2011 01:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111730006A	06/22/2011 15:25	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	111640015A	06/13/2011 17:20	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111610018A	06/10/2011 16:05	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111610017A	06/11/2011 05:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:03	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:08	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312179
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17711 SDG#: DE177-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11171284201A	06/22/2011 01:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11171284201A	06/22/2011 01:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11172621201B	06/22/2011 11:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 18:23	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:45	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11171284201A	06/20/2011 15:10	Alex M Rittle	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11172621201B	06/21/2011 06:40	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: TB-060911 Water
SSFL Area IV Collocated Soil Sampling
TB-060911

LLI Sample # WW 6312180
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 08:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17712 SDG#: DE177-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Analysis Report

Sample Description: TB-060911 Water
SSFL Area IV Collocated Soil Sampling
TB-060911

LLI Sample # WW 6312180
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 08:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17712 SDG#: DE177-12TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011	17:17	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111641AA	06/13/2011	10:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111641AA	06/13/2011	10:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011	17:17	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11171B20A	06/21/2011	09:25	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11171B20A	06/21/2011	09:25	Carrie E Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB17-SA8N-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA8N-SB-060911

LLI Sample # WW 6312181
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17713 SDG#: DE177-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	7.17		0.506	1.01		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 6.03 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or sample. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.43	J	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB17-SA8N-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA8N-SB-060911

LLI Sample # WW 6312181
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17713 SDG#: DE177-13EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.14	J	0.10	0.60		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.							
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl	84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl	92-94-4	0.083	U	0.083	0.26		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB17-SA8N-SB-060911 Water**
SSFL Area IV Collocated Soil Sampling
EB17-SA8N-SB-060911

LLI Sample # WW 6312181
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:30

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17713 SDG#: DE177-13EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11166WAA026	06/30/2011 09:50	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11166WAA026	06/15/2011 14:15	Kerrie A Freeburn	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11171B20A	06/21/2011 09:47	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11171B20A	06/21/2011 09:47	Carrie E Miller	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111640024A	06/15/2011 22:05	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111620001A	06/13/2011 11:45	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111620001A	06/11/2011 09:45	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111640024A	06/14/2011 08:00	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111650031A	06/18/2011 04:25	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111650033A	06/15/2011 01:24	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111650002A	06/15/2011 12:33	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111650009A	06/17/2011 11:29	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111650031A	06/15/2011 08:15	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111650009A	06/14/2011 17:30	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11161196601B	06/10/2011 21:22	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11166117101B	06/15/2011 19:54	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11166117101B	06/15/2011 16:20	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB16-SA5DN-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA5DN-SB-060911

LLI Sample # WW 6312182
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 13:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17714 SDG#: DE177-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	7.95		0.498	0.995		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 6.03 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank or sample. The data reported here is from the initial extraction of the sample.							
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.40	U	0.40	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.3		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB16-SA5DN-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA5DN-SB-060911

LLI Sample # WW 6312182
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 13:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17714 SDG#: DE177-14EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
	Due to interfering peaks on the chromatogram, the values reported for 4-Am-2,6-dinitrotoluene represent the lowest reporting limits attainable.							
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.13	J	0.10	0.60		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The recoveries for target analytes in the LCS are outside the QC acceptance limits noted on the QC summary. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.							
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	210	J	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.080	U	0.080	0.25		1
10319	o-Terphenyl	84-15-1	0.080	U	0.080	0.25		1
10319	p-Terphenyl	92-94-4	0.080	U	0.080	0.25		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB16-SA5DN-SB-060911 Water
SSFL Area IV Collocated Soil Sampling
EB16-SA5DN-SB-060911

LLI Sample # WW 6312182
LLI Group # 1250864
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 13:00

Submitted: 06/10/2011 10:00
Reported: 07/11/2011 11:11

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17714 SDG#: DE177-14EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	15b NDMA by 1625C	EPA 1625C	1	11166WAA026	06/30/2011 10:09	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11166WAA026	06/15/2011 14:15	Kerrie A Freeburn	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11171B20A	06/21/2011 10:08	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	11171B20A	06/21/2011 10:08	Carrie E Miller	1
10131	16b Energetics by 8330A	SW-846 8330A	1	111640024A	06/15/2011 22:48	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111620001A	06/13/2011 11:55	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111620001A	06/11/2011 09:45	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	111640024A	06/14/2011 08:00	Kerrie A Freeburn	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111650031A	06/18/2011 04:50	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111650033A	06/15/2011 01:39	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111650002A	06/15/2011 12:50	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111650009A	06/17/2011 12:14	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111650031A	06/15/2011 08:15	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	111650009A	06/14/2011 17:30	Kathryn I DeHaven	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11161196601B	06/10/2011 21:37	Ashley M Adams	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11166117101B	06/15/2011 19:56	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11166117101B	06/15/2011 16:20	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111661AA	Sample number(s): 6312169-6312177,6312179									
Acetone	9.0		6.7	8.0	ug/kg	117	124	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99	98	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	108	107	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	102	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	101	103	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	83	86	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	113	46-153	6	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	102	91	72-120	11	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	93	75-120	8	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96	91	75-120	6	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	108	107	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	102	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	78	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	89	94	43-146	6	30
Chloroform	0.12	U	0.12	4.0	ug/kg	109	107	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	92	96	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	98	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	71	69	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108	112	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102	103	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	105	106	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	103	100	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	97	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100	98	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	108	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	115	115	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109	109	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	102	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	101	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	104	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	108	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	110	112	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	103	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	99	100	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99	102	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	103	102	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	101	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	102	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90	69	57-120	27	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	107	114	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	102	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100	92	75-120	8	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	108	112	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	111	118	61-134	6	30
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	128*	125*	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	103	99	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	103	101	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100	105	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	99	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	103	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	87	64-120	10	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89	81	68-120	9	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	103	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	106	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	100	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95	94	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	107	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101	98	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	100	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89	93	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	107	105	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	102	80-120	2	30
Batch number: E111641AA	Sample number(s): 6312180									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	109	80-123	7	30
Batch number: E111642AA	Sample number(s): 6312169-6312177,6312179									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	107	70-130	8	30
Batch number: L111651AA	Sample number(s): 6312180									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11165SLE026	Sample number(s): 6312169-6312176,6312179									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	91		70-130		
Batch number: 11166SLA026	Sample number(s): 6312169-6312179									
Aniline	170 U		170.	500	ug/kg	60		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	41		15-121		
Benzoic acid	170 U		170.	500	ug/kg	93		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	92		79-117		
Carbazole	17	U	17.	170	ug/kg	87		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	88		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	64		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	94		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	91		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	89		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	91		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	21	J	17.	330	ug/kg	110		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	84		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	76		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	93		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	90		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	93		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11166SLC026	Sample number(s): 6312169-6312179									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	79		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	85		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	107		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	87		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	117		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	88		56-121		
Batch number: 11166WAA026	Sample number(s): 6312181-6312182									
N-Nitrosodimethylamine	6.03		0.500	1.00	ng/l	110	95	70-130	15	30
Batch number: 11165A34A	Sample number(s): 6312169-6312176,6312179									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	77	67-119	4	30
Batch number: 11171B20A	Sample number(s): 6312180-6312182									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 111640009A	Sample number(s): 6312169-6312176,6312179									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	115		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	84	100	54-134	18	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	84	100	54-134	18	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	113		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	118		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	121*		80-120		
RDX	50	U	50.	120	ug/kg	103		75-131		
Tetryl	61	U	61.	120	ug/kg	100		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	112		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	121*		80-120		
Batch number: 111640024A	Sample number(s): 6312181-6312182									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	100	50-122	11	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	100	50-122	11	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	100	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	97	97	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	98	99	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	97	98	74-120	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	97	97	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	89	90	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	82	83	72-141	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	87	89	53-129	2	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 111620001A	Sample number(s): 6312181-6312182									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	94	92	69-130	2	30
Batch number: 111660002A	Sample number(s): 6312169-6312176,6312179									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	96		80-126		
Batch number: 111660019A	Sample number(s): 6312172									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111650017A	Sample number(s): 6312169-6312179									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	105	102	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	100		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	118		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111650031A	Sample number(s): 6312181-6312182									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	90	98	69-125	9	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	92	103	77-125	11	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	108	68-124	15	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	107	80-121	13	30
EFH (C8-C11)	0.11	J	0.10	0.60	mg/l	86	104*	46-103	19	30
Batch number: 111710009A	Sample number(s): 6312171,6312173,6312175									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	94		69-132		
EFH (C30 - C40)	2.2		0.40	1.2	mg/kg	91		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		54-107		
Batch number: 111730006A	Sample number(s): 6312169-6312170,6312172,6312174,6312176,6312179									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	103		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	108		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	109		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	73		54-107		
Batch number: 111610017A	Sample number(s): 6312169-6312176,6312179									
Diethylene glycol	5.0	U	5.0	10	mg/kg	101		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	101		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	101		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111610018A	Sample number(s): 6312169-6312176,6312179									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	83		75-125		
Methanol	100 U		100.	500	ug/kg	84		68-129		
Batch number: 111650002A	Sample number(s): 6312181-6312182									
Diethylene glycol	10	U	10.	100	mg/l	110	105	78-126	5	20
Ethylene glycol	10	U	10.	100	mg/l	105	100	80-124	5	20
Propylene glycol	10	U	10.	100	mg/l	105	100	80-120	5	20
Batch number: 111650033A	Sample number(s): 6312181-6312182									
Ethanol	200 U		200.	1,000	ug/l	92		66-132		
Isopropanol	200 U		200.	1,000	ug/l	88		75-125		
Methanol	200 U		200.	1,000	ug/l	96		71-140		
Batch number: 111640015A	Sample number(s): 6312169-6312176,6312179									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
Batch number: 111650009A	Sample number(s): 6312181-6312182									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	86	85	75-125	1	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	98	98	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	97	96	75-125	1	20
Batch number: 111681026001A	Sample number(s): 6312169-6312179									
Antimony	0.0740	U	0.0740	0.200	mg/kg	137		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		86-111		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	111		82-118		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	107		81-112		
Batch number: 111681026001B	Sample number(s): 6312169-6312179									
Selenium	0.0580	U	0.0580	0.400	mg/kg	107		83-111		
Batch number: 111681026001C	Sample number(s): 6312169-6312179									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	121		78-122		
Batch number: 111681026001D	Sample number(s): 6312169-6312179									
Barium	0.106	U	0.106	0.400	mg/kg	105		81-111		
Batch number: 111685708002	Sample number(s): 6312169-6312179									
Aluminum	5.85	J	5.76	19.0	mg/kg	90		61-110		
Boron	0.868	J	0.343	4.76	mg/kg	91		78-110		
Calcium	14.7	J	2.38	19.0	mg/kg	98		88-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	3.86	J	2.49	19.0	mg/kg	84		61-110		
Lithium	0.59	U	0.59	1.9	mg/kg	97		80-120		
Magnesium	0.630	J	0.419	9.52	mg/kg	94		82-110		
Manganese	0.0343	U	0.0343	0.476	mg/kg	94		89-112		
Phosphorus	1.54	J	0.333	9.52	mg/kg	99		80-120		
Potassium	10.8	U	10.8	47.6	mg/kg	96		78-110		
Sodium	5.67	U	5.67	95.2	mg/kg	94		87-110		
Strontium	0.0819	J	0.0238	0.476	mg/kg	94		86-110		
Tin	1.52	J	0.305	9.52	mg/kg	94		90-114		
Zirconium	0.438	U	0.438	4.76	mg/kg	96		80-120		
Batch number: 111685711003	Sample number(s): 6312169-6312179									
Mercury	0.0065	U	0.0065	0.0923	mg/kg	107		88-123		
Batch number: 111725708005	Sample number(s): 6312169-6312179									
Titanium	0.0710	U	0.0710	1.00	mg/kg	85		80-120		
Batch number: 111731026001A	Sample number(s): 6312169-6312179									
Lead	0.0102	U	0.0102	0.200	mg/kg	97		83-110		
Batch number: 11161196601B	Sample number(s): 6312181-6312182									
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	100	100	90-110	0	20
Batch number: 11166117101B	Sample number(s): 6312181-6312182									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	99	98	90-110	1	20
Batch number: 11166243201A	Sample number(s): 6312169-6312179									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11168102201A	Sample number(s): 6312169-6312173									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11168102201B	Sample number(s): 6312174-6312176,6312179									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11171284201A	Sample number(s): 6312169-6312174,6312176-6312179									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11171284201B	Sample number(s): 6312175									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	105		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	108		90-110		
Batch number: 11172621201A	Sample number(s): 6312169-6312178									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11172621201B	Sample number(s): 6312179									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11166039401B	Sample number(s): 6312169-6312174									
18a pH by 9045C						100		95-105		
Batch number: 11167039401A	Sample number(s): 6312175-6312179									
18a pH by 9045C						100		95-105		
Batch number: 11165162401B	Sample number(s): 6312177-6312178									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162404A	Sample number(s): 6312169-6312176								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162404B	Sample number(s): 6312179								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11165SLE026	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
N-Nitrosodimethylamine	66*	89	70-130	28	30				
Batch number: 11166SLA026	Sample number(s): 6312169-6312179 UNSPK: 6312169								
Aniline	74	68	35-95	9	30				
Benzidine	58	44	35-141	26	30				
Benzoic acid	51	49	10-173	3	30				
Benzyl alcohol	86	87	67-115	1	30				
4-Bromophenyl-phenylether	91	91	67-129	1	30				
Carbazole	90	88	64-120	2	30				
4-Chloro-3-methylphenol	85	85	76-110	1	30				
4-Chloroaniline	62	51	23-95	19	30				
bis(2-Chloroethoxy)methane	89	89	75-104	0	30				
bis(2-Chloroethyl)ether	86	88	60-116	2	30				
bis(2-Chloroisopropyl)ether	84	84	55-142	1	30				
2-Chloronaphthalene	88	83	50-141	6	30				
2-Chlorophenol	88	91	73-121	3	30				
4-Chlorophenyl-phenylether	89	89	80-109	0	30				
Dibenzofuran	89	92	71-112	3	30				
1,2-Dichlorobenzene	82	84	66-108	3	30				
1,3-Dichlorobenzene	78	83	63-109	6	30				
1,4-Dichlorobenzene	80	83	70-100	4	30				
3,3'-Dichlorobenzidine	74	74	16-119	0	30				
2,4-Dichlorophenol	89	89	78-117	0	30				
2,4-Dimethylphenol	93	93	78-110	1	30				
3,5-Dimethylphenol	96	96	70-130	0	30				
4,6-Dinitro-2-methylphenol	73	70	24-116	3	30				
2,4-Dinitrophenol	58	52	20-143	11	30				
2,4-Dinitrotoluene	86	85	73-113	0	30				
2,6-Dinitrotoluene	91	91	69-123	0	30				
1,2-Diphenylhydrazine	104	103	71-129	1	30				
bis(2-Ethylhexyl)phthalate	105	103	63-122	1	30				
Hexachlorobenzene	94	94	77-114	0	30				
Hexachlorobutadiene	86	91	62-120	6	30				
Hexachlorocyclopentadiene	75	76	10-153	0	30				
Hexachloroethane	78	83	57-109	7	30				
Isophorone	91	91	73-102	0	30				
2-Methylphenol	85	85	75-111	0	30				
4-Methylphenol	81	83	71-111	3	30				
2-Nitroaniline	92	93	67-125	1	30				
3-Nitroaniline	85	83	59-122	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitroaniline	65	64	52-112	2	30				
Nitrobenzene	93	94	72-106	2	30				
2-Nitrophenol	91	89	74-115	2	30				
4-Nitrophenol	80	78	54-113	2	30				
N-Nitroso-di-n-propylamine	87	86	60-116	1	30				
N-Nitrosodiphenylamine	98	97	86-145	1	30				
Pentachlorophenol	85	80	28-127	6	30				
Phenol	88	87	58-126	1	30				
1,2,4-Trichlorobenzene	90	94	72-115	4	30				
2,4,5-Trichlorophenol	90	92	78-109	3	30				
2,4,6-Trichlorophenol	95	97	77-115	1	30				
Batch number: 11166SLC026	Sample number(s): 6312169-6312179 UNSPK: 6312169								
Acenaphthene	87	86	63-105	1	30				
Acenaphthylene	81	79	67-114	2	30				
Anthracene	90	90	60-122	0	30				
Benzo(a)anthracene	99	98	59-128	1	30				
Benzo(a)pyrene	99	98	45-138	1	30				
Benzo(b)fluoranthene	104	107	43-155	3	30				
Benzo(g,h,i)perylene	93	87	33-141	7	30				
Benzo(k)fluoranthene	103	95	42-144	8	30				
Butylbenzylphthalate	115	113	57-173	1	30				
Di-n-butylphthalate	106	104	65-148	2	30				
Chrysene	98	96	48-134	2	30				
Dibenz(a,h)anthracene	98	93	22-133	5	30				
Diethylphthalate	91	90	70-136	1	30				
Dimethylphthalate	90	90	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	109	109	39-167	0	30				
Fluoranthene	97	97	26-166	1	30				
Fluorene	88	88	66-122	1	30				
Indeno(1,2,3-cd)pyrene	98	93	21-143	5	30				
1-Methylnaphthalene	92	89	72-123	4	30				
2-Methylnaphthalene	83	79	64-103	4	30				
Naphthalene	84	80	61-102	4	30				
N-Nitrosodimethylamine	88	87	48-113	1	30				
Di-n-octylphthalate	112	108	40-192	3	30				
Phenanthrene	88	88	12-165	1	30				
Pyrene	89	89	15-153	0	30				
Batch number: 111640009A	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
4-Amino-2,6-Dinitrotoluene	102	113	80-127	10	50				
2-Amino-4,6-Dinitrotoluene	100	111	80-137	10	50				
1,3-Dinitrobenzene	106	115	38-166	8	50				
2,4-Dinitrotoluene	98	107	80-131	9	50				
2,6-Dinitrotoluene	102	112	80-127	9	50				
HMX	83	97	63-128	15	50				
Nitrobenzene	102	110	80-125	8	50				
Nitroglycerin	86	96	80-120	11	50				
2-Nitrotoluene	98	106	80-122	8	50				
3-Nitrotoluene	105	113	72-119	7	50				
4-Nitrotoluene	97	106	80-125	8	50				
PETN	107	123*	80-121	14	50				
RDX	74*	86	75-129	15	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetryl	58	69	55-174	16	50				
1,3,5-Trinitrobenzene	79*	94	82-126	18	50				
2,4,6-Trinitrotoluene	99	110	82-130	10	50				
Batch number: 111660002A	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
25a Formaldehyde 8315A	97	97	80-120	2	50				
Batch number: 111660019A	Sample number(s): 6312172 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111650017A	Sample number(s): 6312169-6312179 UNSPK: 6312169								
PCB-1016	91	93	29-146	1	50				
PCB-1260	99	102	39-149	3	50				
Batch number: 111710009A	Sample number(s): 6312171,6312173,6312175 UNSPK: P312169								
EFH (C12-C14)	96	93	49-123	4	20				
EFH (C15-C20)	128*	122	49-123	5	20				
EFH (C21-C30)	201*	131*	49-123	23*	20				
EFH (C30 - C40)	337*	231*	49-123	17	20				
EFH (C8-C11)	99	93	49-123	6	20				
Batch number: 111730006A	Sample number(s): 6312169-6312170,6312172,6312174,6312176,6312179 UNSPK: 6312170								
EFH (C12-C14)	79	96	49-123	20	20				
EFH (C15-C20)	107	110	49-123	3	20				
EFH (C21-C30)	87	93	49-123	5	20				
EFH (C30 - C40)	92	98	49-123	6	20				
EFH (C8-C11)	87	100	49-123	14	20				
Batch number: 111610017A	Sample number(s): 6312169-6312176,6312179 UNSPK: 6312169								
Diethylene glycol	50*	56*	59-109	13	20				
Ethylene glycol	69	76	63-107	10	20				
Propylene glycol	74	81	63-107	9	20				
Batch number: 111610018A	Sample number(s): 6312169-6312176,6312179 UNSPK: P310775								
Ethanol	70	70	48-130	0	20				
Isopropanol	70	70	12-149	1	20				
Methanol	73	74	43-138	2	20				
Batch number: 111650033A	Sample number(s): 6312181-6312182 UNSPK: P313718								
Ethanol	92	96	62-145	4	20				
Isopropanol	88	92	73-131	4	20				
Methanol	96	100	52-159	4	20				
Batch number: 111640015A	Sample number(s): 6312169-6312176,6312179 UNSPK: P309733								
m-Terphenyl	68*	66*	75-125	3	20				
o-Terphenyl	77	76	75-125	2	20				
p-Terphenyl	82	79	75-125	4	20				
Batch number: 111681026001A	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Antimony	83	85	75-125	2	20	0.217	0.277	24* (1)	20
Arsenic	104	153*	75-125	13	20	4.78	5.50	14	20
Beryllium	97	133*	75-125	17	20	0.722	0.843	15	20
Cadmium	95	113	75-125	12	20	0.393	0.336	16 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	35*	84	75-125	12	20	33.8	31.4	7	20
Cobalt	108	124	75-125	12	20	9.63	11.3	16	20
Copper	105	143*	75-125	13	20	15.4	16.8	9	20
Nickel	112	153*	75-125	12	20	20.0	22.7	13	20
Silver	106	116	75-125	9	20	0.0543 J	0.0598 J	10 (1)	20
Thallium	90	110	75-125	10	20	0.428	0.392	9 (1)	20
Vanadium	29 (2)	119 (2)	75-125	13	20	57.2	55.1	4	20
Zinc	112 (2)	200 (2)	75-125	11	20	62.2	67.7	9	20
Batch number: 111681026001B	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Selenium	98	112	75-125	12	20	0.181 J	0.145 J	22* (1)	20
Batch number: 111681026001C	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Molybdenum	106	121	75-125	13	20	0.368	0.422	14 (1)	20
Batch number: 111681026001D	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Barium	177 (2)	397 (2)	75-125	13	20	133	149	11	20
Batch number: 111685708002	Sample number(s): 6312169-6312179 UNSPK: 6312169 BKG: 6312169								
Aluminum	2397 (2)	1692 (2)	75-125	5	20	25,300	20,300	22*	20
Boron	91	92	84-115	1	20	6.68	5.22	25* (1)	20
Calcium	62 (2)	288 (2)	75-125	13	20	5,840	5,720	2	20
Iron	12445 (2)	13631 (2)	75-125	2	20	29,000	31,500	8	20
Lithium	99	100	82-114	1	20	20.3	17.5	15	20
Magnesium	297 (2)	386 (2)	75-125	3	20	5,580	5,050	10	20
Manganese	453 (2)	175 (2)	75-125	26*	20	371	271	31*	20
Phosphorus	108	161*	75-125	14	20	235	217	8	20
Potassium	146*	129*	75-125	4	20	3,370	2,900	15	20
Sodium	93	94	75-125	0	20	269	240	12 (1)	20
Strontium	93	94	75-115	1	20	30.0	26.4	13	20
Tin	84	86	80-110	0	20	2.39 J	2.25 J	6 (1)	20
Zirconium	93	93	75-125	1	20	3.03 J	2.53 J	18 (1)	20
Batch number: 111685711003	Sample number(s): 6312169-6312179 UNSPK: P313367 BKG: P313367								
Mercury	84	86	65-135	3	20	0.0068 U	0.0065 U	0 (1)	20
Batch number: 111725708005	Sample number(s): 6312169-6312179 UNSPK: 6312170 BKG: 6312170								
Titanium	206 (2)	284 (2)	75-125	7	20	985	1,130	14	20
Batch number: 111731026001A	Sample number(s): 6312169-6312179 UNSPK: 6312169 BKG: 6312169								
Lead	235 (2)	235 (2)	75-125	0	20	8.02	8.29	3	20
Batch number: 11166243201A	Sample number(s): 6312169-6312179 UNSPK: P313375 BKG: P313375								
3a Cr VI by EPA 7199	90		75-125			0.56 J	0.83 J	38* (1)	20
Batch number: 11168102201A	Sample number(s): 6312169-6312173 UNSPK: P310779 BKG: P310779								
17a Cyanide by 9012B	92		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11168102201B	Sample number(s): 6312174-6312176,6312179 UNSPK: 6312174 BKG: 6312174								
17a Cyanide by 9012B	98		75-125			0.18 U	0.18 U	0 (1)	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11171284201A	Sample number(s): 6312169-6312174,6312176-6312179 UNSPK: 6312176 BKG: 6312176										
11a Anions by 300.0 - Fluoride	82		80-120			1.5		1.5		3 (1)	20
11a Anions by 300.0 - Nitrate	98		80-120			1.1	J	0.99	J	11 (1)	20
Batch number: 11171284201B	Sample number(s): 6312175 UNSPK: 6312175 BKG: 6312175										
11a Anions by 300.0 - Fluoride	35*		80-120			7.9		7.9		0	20
11a Anions by 300.0 - Nitrate	91		80-120			1.7		1.8		3 (1)	20
Batch number: 11172621201A	Sample number(s): 6312169-6312178 UNSPK: 6312169 BKG: 6312169										
7a Perchlorate EPA 314.0	98		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11172621201B	Sample number(s): 6312179 UNSPK: 6312179 BKG: 6312179										
7a Perchlorate EPA 314.0	100		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11166039401B	Sample number(s): 6312169-6312174 BKG: 6312174										
18a pH by 9045C						8.69		8.74		1	3
Batch number: 11167039401A	Sample number(s): 6312175-6312179 BKG: 6312175										
18a pH by 9045C						8.16		8.20		0	3
Batch number: 11165162401B	Sample number(s): 6312177-6312178 BKG: 6312177										
Moisture Content by 160.3						12.5		12.4		1	20
Batch number: 11174162404A	Sample number(s): 6312169-6312176 BKG: 6312175										
Moisture Content by 160.3						14.1		14.5		3	20
Batch number: 11174162404B	Sample number(s): 6312179 BKG: P318825										
Moisture Content by 160.3						14.0		14.1		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111661AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6312169	107	108	100	95
6312170	104	99	101	95
6312171	105	105	100	93
6312172	106	104	100	97
6312173	107	109	98	94
6312174	106	103	101	93
6312175	106	101	102	90
6312176	106	100	100	94
6312177	108	109	99	96
6312179	106	100	101	92
Blank	104	102	100	95
LCS	103	105	103	102

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

LCSD	103	107	103	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111641AA

	Toluene-d8
6312180	99
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111642AA

	Toluene-d8
6312169	97
6312170	97
6312171	97
6312172	97
6312173	97
6312174	97
6312175	97
6312176	97
6312177	97
6312179	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6312180	105	103	99	96
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11165SLE026

	N-Nitrosodimethylamine-d6
6312169	111
6312170	203*
6312171	120
6312172	113
6312173	106
6312174	132

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312175	121
6312176	121
6312179	123
Blank	111
LCS	127
MS	170*
MSD	108
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11166SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6312169	79	82	76	85	90	80
6312170	82	81	80	84	88	82
6312171	74	76	76	76	81	81
6312172	80	81	81	84	89	83
6312173	80	81	81	86	89	88
6312174	81	82	84	86	89	83
6312175	83	85	86	88	92	85
6312176	83	83	84	90	92	85
6312177	77	77	78	81	82	77
6312178	82	84	83	87	88	80
6312179	81	83	86	85	91	85
Blank	85	83	88	87	90	87
LCS	89	89	84	94	93	87
MS	89	89	85	93	93	85
MSD	85	87	84	93	94	84
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11166SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6312169	92	77	101
6312170	93	78	97
6312171	95	84	97
6312172	96	83	101
6312173	90	77	94
6312174	94	76	94
6312175	100	81	91
6312176	100	82	93
6312177	94	79	88
6312178	100	83	97
6312179	96	79	90
Blank	100	82	96
LCS	103	85	98
MS	106	88	100
MSD	100	87	98
Limits:	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11166WAA026

	N-Nitrosodimethylamine-

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

	d6
6312181	151*
6312182	154*
Blank	110
LCS	113
LCSD	135
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11165A34A

	Trifluorotoluene-F
6312169	69
6312170	69
6312171	74
6312172	70
6312173	66
6312174	75
6312175	78
6312176	79
6312179	72
Blank	85
LCS	86
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11171B20A

	Trifluorotoluene-F
6312180	87
6312181	87
6312182	87
Blank	85
LCS	113
LCSD	112
Limits:	63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111620001A

	Butyraldehyde
6312181	104
6312182	108
Blank	94
LCS	96
LCSD	91
Limits:	45-145

Analysis Name: 16a Energetics by 8330A
Batch number: 111640009A

	2-Nitro-m-xylene

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312169	104
6312170	118
6312171	123
6312172	126
6312173	119
6312174	123
6312175	125
6312176	121
6312179	118
Blank	111
LCS	117
LCSD	118
MS	113
MSD	113
Limits:	80-146

Analysis Name: 16b Energetics by 8330A
Batch number: 111640024A

	2-Nitro-m-xylene
6312181	109
6312182	98
Blank	107
LCS	102
LCSD	106
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111650017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6312169	103	99
6312170	98	91
6312171	91	86
6312172	93	107
6312173	91	72
6312174	95	73
6312175	86	83
6312176	94	79
6312177	89	88
6312178	96	88
6312179	103	99
Blank	104	103
LCS	102	106
LCSD	102	108
MS	91	94
MSD	92	98
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111660002A

	Butyraldehyde

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312169	101
6312170	105
6312171	99
6312172	98
6312173	106
6312174	105
6312175	105
6312176	100
6312179	107
Blank	107
LCS	109
MS	99
MSD	107

Limits: 64-126

Analysis Name: 21a Glycols by 8015B
Batch number: 111610017A

Tetramethylene glycol

6312169	69
6312170	84
6312171	76
6312172	71
6312173	80
6312174	90
6312175	79
6312176	80
6312179	82
Blank	95
LCS	110
MS	81
MSD	80

Limits: 29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111610018A

Acetone

6312169	72
6312170	70
6312171	73
6312172	65
6312173	72
6312174	70
6312175	70
6312176	69
6312179	72
Blank	90
LCS	91
MS	74
MSD	71

Limits: 42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111640015A

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

	n-Triacontane-d62
6312169	98
6312170	85
6312171	102
6312172	91
6312173	98
6312174	93
6312175	117
6312176	85
6312179	97
Blank	96
LCS	94
MS	110
MSD	97
Limits:	50-150

Analysis Name: 21b Glycols by 8015B
Batch number: 111650002A

	Tetramethylene glycol
6312181	91
6312182	103
Blank	104
LCS	103
LCSD	100
Limits:	77-119

Analysis Name: 20b Terphenyls by 8015B
Batch number: 111650009A

	n-Triacontane-d62
6312181	93
6312182	89
Blank	94
LCS	94
LCSD	94
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111650031A

	Chlorobenzene	Orthoterphenyl
6312181	50	101
6312182	72	98
Blank	70	96
LCS	73	95
LCSD	79	104
Limits:	28-152	52-131

Analysis Name: 19b Alcohols by 8015B
Batch number: 111650033A

	Acetone

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250864
Reported: 07/11/11 at 11:11 AM

Surrogate Quality Control

6312181	99	
6312182	100	
Blank	94	
LCS	97	
MS	104	
MSD	101	
Limits:	54-147	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111710009A

	Chlorobenzene	Orthoterphenyl
6312171	71	78
6312173	84	89
6312175	58	77
Blank	86	89
LCS	92	94
MS	78	96
MSD	78	90
Limits:	37-125	47-145

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111730006A

	Chlorobenzene	Orthoterphenyl
6312169	75	94
6312170	60	86
6312172	80	99
6312174	58	90
6312176	49	80
6312179	68	95
Blank	89	104
LCS	93	107
MS	78	100
MSD	82	103
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1250864 Sample# 6312169-82

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-E/H EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores																						
SL-037-SA5DN-SB-4.5	06.09.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-4.0-5.0	06.09.11	1520	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SB-12.0	06.09.11	1525	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-11.5-12.5	06.09.11	1530	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-4.5	06.09.11	1405	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-4.0-5.0	06.09.11	1410	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-11.0	06.09.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-10.5-11.5	06.09.11	1420	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-4.5	06.09.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-4.0-5.0	06.09.11	1135	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-12.0	06.09.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-11.5-12.5	06.09.11	1145	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-4.5	06.09.11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-4.0-5.0	06.09.11	1020	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-10.0	06.09.11	1025	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-10.5-11.5	06.09.11	1039	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-050-SA5DN-SB-4.5	06.09.11	0920	SOIL	NONE	4-Encores										X	X											
SL-050-SA5DN-SB-4.0-5.0	06.09.11	0925	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-050-SA5DN-SB-11.2-12.5	06.09.11	0930	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/09/2011 / 1700	Mary Yeh 6/10/11 1000	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 0541,0552,0563,0574	

acct# 13013 Gp# 1250864 Sample# 6312169-82

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vidal Colon

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-116-SA8N-SB-4.5	06.09.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-116-SA8N-SB-4.0-5.0	06.09.11	1225	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060911	06.09.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/09/2011 / 1700	6/10/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 0541,0552,0563,0574	

acct# 13013 Cap# 1250864 Sample# 6312169-82

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NONE	1-250mL glass				X							
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NaOH	1-500mL poly							X				
EB17-SA8N-SB-060911	06.09.11	1230	WATER	HCL	5-40mL vials	X									X	
EB17-SA8N-SB-060911	06.09.11	1230	WATER	NONE	4-40mL vials			X						X		
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NONE	5-1 L Ambers		X			X	X		X			
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NONE	1-250mL glass				X							
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NaOH	1-500mL poly							X				
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	HCL	5-40mL vials	X									X	
EB16-SA5DN-SB-060911	06.09.11	1300	WATER	NONE	4-40mL vials			X						X		

Relinquished by: (*Signature*) — Date/Time: 06/09/2011 / 1700

Received for Laboratory by: (*Signature*) — 6/10/11 1000

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time

Airbill No(s): 8754 3340 0541,0552,0563,0574

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/10/2011
Group Number: 1250865
SDG: DX100
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-037-SA5DN-SB-4.0-5.0 Soil	6312183
SL-037-SA5DN-SB-11.5-12.5 Soil	6312184
SL-038-SA5DN-SB-4.0-5.0 Soil	6312185
SL-038-SA5DN-SB-10.5-11.5 Soil	6312186
SL-039-SA5DN-SB-4.0-5.0 Soil	6312187
SL-039-SA5DN-SB-11.5-12.5 Soil	6312188

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312183
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10016 SDG#: DX100-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312183
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10016 SDG#: DX100-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0502 JBQ	0.0146	1.19	1
11031	12378-PeCDD	40321-76-4	0.101 JB	0.0235	5.97	1
11031	123478-HxCDD	39227-28-6	0.0470 JB	0.0297	5.97	1
11031	123678-HxCDD	57653-85-7	0.335 JBQ	0.0318	5.97	1
11031	123789-HxCDD	19408-74-3	0.419 JB	0.0302	5.97	1
11031	1234678-HpCDD	35822-46-9	3.63 JB	0.0449	5.97	1
11031	OCDD	3268-87-9	39.7 B	0.0465	11.9	1
11031	2378-TCDF	51207-31-9	0.0623 J	0.0325	1.19	1
11031	12378-PeCDF	57117-41-6	0.338 JB	0.0245	5.97	1
11031	23478-PeCDF	57117-31-4	0.131 JB	0.0262	5.97	1
11031	123478-HxCDF	70648-26-9	0.147 JBQ	0.0276	5.97	1
11031	123678-HxCDF	57117-44-9	0.0921 JB	0.0230	5.97	1
11031	123789-HxCDF	72918-21-9	0.571 JB	0.0319	5.97	1
11031	234678-HxCDF	60851-34-5	0.0651 JB	0.0244	5.97	1
11031	1234678-HpCDF	67562-39-4	0.320 JB	0.0174	5.97	1
11031	1234789-HpCDF	55673-89-7	0.0577 JB	0.0334	5.97	1
11031	OCDF	39001-02-0	0.760 JB	0.0548	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	46	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-037-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312183
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10016 SDG#: DX100-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-037-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312183
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10016 SDG#: DX100-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 20:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312184
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10017 SDG#: DX100-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312184
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10017 SDG#: DX100-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0137 U	0.0137	1.10	1
11031	12378-PeCDD	40321-76-4	0.0480 JBQ	0.0130	5.50	1
11031	123478-HxCDD	39227-28-6	0.0355 JBQ	0.0152	5.50	1
11031	123678-HxCDD	57653-85-7	0.0448 JBQ	0.0158	5.50	1
11031	123789-HxCDD	19408-74-3	0.0548 JBQ	0.0147	5.50	1
11031	1234678-HpCDD	35822-46-9	0.379 JB	0.0287	5.50	1
11031	OCDD	3268-87-9	0.856 JBQ	0.0331	11.0	1
11031	2378-TCDF	51207-31-9	0.0317 JQ	0.0132	1.10	1
11031	12378-PeCDF	57117-41-6	0.0850 JBQ	0.00682	5.50	1
11031	23478-PeCDF	57117-31-4	0.0796 JBQ	0.00715	5.50	1
11031	123478-HxCDF	70648-26-9	0.0366 JBQ	0.00961	5.50	1
11031	123678-HxCDF	57117-44-9	0.0401 JB	0.00771	5.50	1
11031	123789-HxCDF	72918-21-9	0.0510 JB	0.0112	5.50	1
11031	234678-HxCDF	60851-34-5	0.0319 JB	0.00905	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0437 JBQ	0.00804	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0423 JBQ	0.0159	5.50	1
11031	OCDF	39001-02-0	0.0806 JBQ	0.0451	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312184
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10017 SDG#: DX100-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-037-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312184
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 15:30

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10017 SDG#: DX100-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 21:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312185
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10018 SDG#: DX100-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312185
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10018 SDG#: DX100-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0316	JB	0.0154	1.11	1
11031	12378-PeCDD	40321-76-4	0.0288	U	0.0288	5.54	1
11031	123478-HxCDD	39227-28-6	0.126	JBQ	0.0384	5.54	1
11031	123678-HxCDD	57653-85-7	0.940	JB	0.0415	5.54	1
11031	123789-HxCDD	19408-74-3	0.801	JB	0.0381	5.54	1
11031	1234678-HpCDD	35822-46-9	27.8	B	0.0718	5.54	1
11031	OCDD	3268-87-9	393	B	0.0631	11.1	1
11031	2378-TCDF	51207-31-9	0.207	JQ	0.0423	1.11	1
11031	12378-PeCDF	57117-41-6	0.190	JB	0.0282	5.54	1
11031	23478-PeCDF	57117-31-4	0.515	JB	0.0266	5.54	1
11031	123478-HxCDF	70648-26-9	0.770	JBQ	0.0733	5.54	1
11031	123678-HxCDF	57117-44-9	0.211	JB	0.0740	5.54	1
11031	123789-HxCDF	72918-21-9	0.683	JB	0.0350	5.54	1
11031	234678-HxCDF	60851-34-5	0.139	JB	0.0302	5.54	1
11031	1234678-HpCDF	67562-39-4	1.73	JB	0.0492	5.54	1
11031	1234789-HpCDF	55673-89-7	0.189	JB	0.0367	5.54	1
11031	OCDF	39001-02-0	6.00	JB	0.0333	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	31	26 - 152
13C12-123678-HxCDF	30	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312185
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10018 SDG#: DX100-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312185
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:10

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10018 SDG#: DX100-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 22:31	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312186
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10019 SDG#: DX100-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312186
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10019 SDG#: DX100-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0131 U	0.0131	1.09	1
11031	12378-PeCDD	40321-76-4	0.0191 JBQ	0.0115	5.45	1
11031	123478-HxCDD	39227-28-6	0.0149 U	0.0149	5.45	1
11031	123678-HxCDD	57653-85-7	0.0685 JB	0.0155	5.45	1
11031	123789-HxCDD	19408-74-3	0.0359 JBQ	0.0129	5.45	1
11031	1234678-HpCDD	35822-46-9	1.85 JB	0.0301	5.45	1
11031	OCDD	3268-87-9	15.9 B	0.0232	10.9	1
11031	2378-TCDF	51207-31-9	0.0131 U	0.0131	1.09	1
11031	12378-PeCDF	57117-41-6	0.0365 JB	0.00664	5.45	1
11031	23478-PeCDF	57117-31-4	0.0368 JB	0.00708	5.45	1
11031	123478-HxCDF	70648-26-9	0.0154 U	0.0154	5.45	1
11031	123678-HxCDF	57117-44-9	0.0213 JBQ	0.0118	5.45	1
11031	123789-HxCDF	72918-21-9	0.0251 JB	0.00852	5.45	1
11031	234678-HxCDF	60851-34-5	0.0186 JBQ	0.00675	5.45	1
11031	1234678-HpCDF	67562-39-4	0.0806 JBQ	0.0117	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0144 U	0.0144	5.45	1
11031	OCDF	39001-02-0	0.251 JBQ	0.0358	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	30	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312186
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10019 SDG#: DX100-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312186
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 14:20

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10019 SDG#: DX100-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/25/2011 23:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312187
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10020 SDG#: DX100-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312187
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10020 SDG#: DX100-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0267	JBQ	0.0119	1.15	1
11031	12378-PeCDD	40321-76-4	0.617	JB	0.0355	5.77	1
11031	123478-HxCDD	39227-28-6	1.03	JB	0.0995	5.77	1
11031	123678-HxCDD	57653-85-7	8.25	B	0.107	5.77	1
11031	123789-HxCDD	19408-74-3	2.54	JB	0.0964	5.77	1
11031	1234678-HpCDD	35822-46-9	606	B	0.244	5.77	1
11031	OCDD	3268-87-9	6,890	EB	0.175	11.5	1
11031	2378-TCDF	51207-31-9	0.0737	U	0.0737	1.15	1
11031	12378-PeCDF	57117-41-6	0.159	JB	0.0294	5.77	1
11031	23478-PeCDF	57117-31-4	0.657	JB	0.0303	5.77	1
11031	123478-HxCDF	70648-26-9	0.819	JB	0.0935	5.77	1
11031	123678-HxCDF	57117-44-9	0.716	JB	0.0776	5.77	1
11031	123789-HxCDF	72918-21-9	0.576	JB	0.0624	5.77	1
11031	234678-HxCDF	60851-34-5	0.412	JB	0.0482	5.77	1
11031	1234678-HpCDF	67562-39-4	14.0	B	0.0645	5.77	1
11031	1234789-HpCDF	55673-89-7	1.13	JB	0.0717	5.77	1
11031	OCDF	39001-02-0	43.9	B	0.0400	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157
13C12-1278-TCDD (CRS)	88	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312187
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10020 SDG#: DX100-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312187
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:35

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10020 SDG#: DX100-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/26/2011 00:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312188
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10021 SDG#: DX100-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312188
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10021 SDG#: DX100-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0141	U	0.0141	1.12	1
11031	12378-PeCDD	40321-76-4	0.0167	U	0.0167	5.62	1
11031	123478-HxCDD	39227-28-6	0.0361	JBQ	0.0347	5.62	1
11031	123678-HxCDD	57653-85-7	0.326	JB	0.0367	5.62	1
11031	123789-HxCDD	19408-74-3	0.107	JB	0.0360	5.62	1
11031	1234678-HpCDD	35822-46-9	18.5	B	0.0834	5.62	1
11031	OCDD	3268-87-9	293	B	0.0529	11.2	1
11031	2378-TCDF	51207-31-9	0.0123	U	0.0123	1.12	1
11031	12378-PeCDF	57117-41-6	0.0180	JBQ	0.00726	5.62	1
11031	23478-PeCDF	57117-31-4	0.0558	JB	0.00760	5.62	1
11031	123478-HxCDF	70648-26-9	0.0298	JB	0.0238	5.62	1
11031	123678-HxCDF	57117-44-9	0.0577	JB	0.0186	5.62	1
11031	123789-HxCDF	72918-21-9	0.0380	JBQ	0.0254	5.62	1
11031	234678-HxCDF	60851-34-5	0.0465	JBQ	0.0203	5.62	1
11031	1234678-HpCDF	67562-39-4	0.937	JB	0.0199	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0849	JBQ	0.0405	5.62	1
11031	OCDF	39001-02-0	2.81	JB	0.0360	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157
13C12-1278-TCDD (CRS)	95	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312188
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10021 SDG#: DX100-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DN-SB-11.5-12.5

LLI Sample # SW 6312188
LLI Group # 1250865
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 11:45

Submitted: 06/10/2011 10:00
Reported: 06/29/2011 12:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10021 SDG#: DX100-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11173002	06/26/2011 01:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11173002	06/22/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250865
Reported: 06/29/11 at 12:28 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162404A	Sample number(s): 6312183-6312188								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11173002	Sample number(s): 6312183-6312188								
2378-TCDD	0.0163 J	0.0151	1.00	ng/kg	84		67-158		
12378-PeCDD	0.0170 J	0.0148	5.00	ng/kg	89		70-142		
123478-HxCDD	0.0157 J	0.0149	5.00	ng/kg	90		70-164		
123678-HxCDD	0.0303 J	0.0152	5.00	ng/kg	89		76-134		
123789-HxCDD	0.0403 J	0.0142	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.396 J	0.0336	5.00	ng/kg	91		70-140		
OCDD	0.888 J	0.0327	10.0	ng/kg	90		78-144		
2378-TCDF	0.0136 U	0.0136	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0266 J	0.00680	5.00	ng/kg	88		80-134		
23478-PeCDF	0.0451 J	0.00820	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0434 J	0.0125	5.00	ng/kg	90		72-134		
123678-HxCDF	0.0150 J	0.00890	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0235 J	0.0172	5.00	ng/kg	91		78-130		
234678-HxCDF	0.0249 J	0.0114	5.00	ng/kg	91		70-156		
1234678-HpCDF	0.0675 J	0.00910	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0845 J	0.0290	5.00	ng/kg	92		78-138		
OCDF	0.324 J	0.0891	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162404A	Sample number(s): 6312183-6312188					BKG: P312175			
Moisture Content by 160.3						14.1	14.5	3	20
Batch number: 11173002	Sample number(s): 6312183-6312188					UNSPK: P310796			
2378-TCDD	84	84	67-158	2	25				
12378-PeCDD	89	90	70-142	2	25				
123478-HxCDD	91	89	70-164	4	25				
123678-HxCDD	90	91	76-134	1	25				
123789-HxCDD	88	90	64-162	1	25				
1234678-HpCDD	90	90	70-140	2	25				
OCDD	91	91	78-144	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250865
Reported: 06/29/11 at 12:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	93	90	75-158	5	25				
12378-PeCDF	90	90	80-134	2	25				
23478-PeCDF	90	90	68-160	2	25				
123478-HxCDF	94	92	72-134	4	25				
123678-HxCDF	91	91	84-130	3	25				
123789-HxCDF	92	92	78-130	2	25				
234678-HxCDF	92	92	70-156	2	25				
1234678-HpCDF	90	90	82-122	2	25				
1234789-HpCDF	91	92	78-138	1	25				
OCDF	92	93	63-170	2	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11173002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6312183	71	67	68	79	71	64
6312184	62	59	61	73	65	63
6312185	73	67	31	30	70	72
6312186	64	62	30	38	66	62
6312187	79	72	41	47	75	70
6312188	81	76	73	87	79	76
Blank	66	56	55	75	59	45
MS	74	70	71	81	74	73
MSD	72	69	71	82	73	66
OPR	53	48	49	65	53	40
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6312183	89	55	46	86	75	79
6312184	88	53	47	83	68	75
6312185	40	67	63	80	72	73
6312186	54	53	47	84	72	69
6312187	58	63	56	88	79	80
6312188	112	66	58	95	87	90
Blank	97	38	28	86	73	76
MS	89	62	51	87	76	79
MSD	91	55	44	88	75	80
OPR	83	33	23	78	58	64
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250865
Reported: 06/29/11 at 12:28 PM

Surrogate Quality Control

6312183	78	80	80	70	63	76
6312184	73	74	75	68	53	66
6312185	69	75	72	68	69	69
6312186	66	77	81	75	55	72
6312187	77	83	83	80	73	80
6312188	87	90	94	88	71	87
Blank	75	76	76	69	53	71
MS	78	81	80	73	68	78
MSD	78	80	76	69	66	77
OPR	63	64	64	56	45	59
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1250865 Sample# 6312183-88

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	$VOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-037-SA5DN-SB-4.5	06.09.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-4.0-5.0	06.09.11	1520	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SB-12.0	06.09.11	1525	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-11.5-12.5	06.09.11	1530	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-4.5	06.09.11	1405	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-4.0-5.0	06.09.11	1410	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-12.0	06.09.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-10.5-11.5	06.09.11	1420	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-4.5	06.09.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-4.0-5.0	06.09.11	1135	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-12.0	06.09.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-11.5-12.5	06.09.11	1145	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-4.5	06.09.11	0915	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-4.0-5.0	06.09.11	0920	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-10.0	06.09.11	0925	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-9.5-11.5	06.09.11	0930	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-050-SA5DN-SB-4.5	06.09.11	0920	SOIL	NONE	4-Encores										X	X											
SL-050-SA5DN-SB-4.0-5.0	06.09.11	0925	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-050-SA5DN-SB-11.2-12.5	06.09.11	0930	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/09/2011 / 1700	Mary Mark 6/10/11 1000	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3340 0541,0552,0563,0574	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/10/2011
Group Number: 1250866
SDG: DX101
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-040-SA5DN-SB-4.0-5.0 Soil	6312189
SL-040-SA5DN-SB-10.5-11.5 Soil	6312190
SL-050-SA5DN-SB-4.0-5.0 Soil	6312191
SL-050-SA5DN-SB-11.2-12.5 Soil	6312192
SL-116-SA8N-SB-4.0-5.0 Soil	6312193

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0599	JBQ	0.0293	1.16	1
11031	12378-PeCDD	40321-76-4	0.127	JBQ	0.0306	5.79	1
11031	123478-HxCDD	39227-28-6	0.191	J	0.0437	5.79	1
11031	123678-HxCDD	57653-85-7	1.35	JB	0.0428	5.79	1
11031	123789-HxCDD	19408-74-3	0.759	JB	0.0414	5.79	1
11031	1234678-HpCDD	35822-46-9	64.1	B	0.0835	5.79	1
11031	OCDD	3268-87-9	598	B	0.0796	11.6	1
11031	2378-TCDF	51207-31-9	0.325	J	0.0742	1.16	1
11031	12378-PeCDF	57117-41-6	0.834	JB	0.0343	5.79	1
11031	23478-PeCDF	57117-31-4	0.691	JB	0.0343	5.79	1
11031	123478-HxCDF	70648-26-9	0.459	JB	0.0368	5.79	1
11031	123678-HxCDF	57117-44-9	0.228	JB	0.0332	5.79	1
11031	123789-HxCDF	72918-21-9	0.601	JB	0.0423	5.79	1
11031	234678-HxCDF	60851-34-5	0.191	JB	0.0345	5.79	1
11031	1234678-HpCDF	67562-39-4	1.77	JB	0.0233	5.79	1
11031	1234789-HpCDF	55673-89-7	0.246	JB	0.0338	5.79	1
11031	OCDF	39001-02-0	5.20	JB	0.0405	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-040-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312189
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:20

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-01 SDG#: DX101-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 15:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404A	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0273 JBQ	0.0247	1.05	1
11031	12378-PeCDD	40321-76-4	0.0327 JB	0.0236	5.23	1
11031	123478-HxCDD	39227-28-6	0.0286 J	0.0277	5.23	1
11031	123678-HxCDD	57653-85-7	0.227 JB	0.0270	5.23	1
11031	123789-HxCDD	19408-74-3	0.123 JBQ	0.0280	5.23	1
11031	1234678-HpCDD	35822-46-9	14.7 B	0.0490	5.23	1
11031	OCDD	3268-87-9	165 B	0.0535	10.5	1
11031	2378-TCDF	51207-31-9	0.0279 U	0.0279	1.05	1
11031	12378-PeCDF	57117-41-6	0.0127 U	0.0127	5.23	1
11031	23478-PeCDF	57117-31-4	0.0287 JB	0.0130	5.23	1
11031	123478-HxCDF	70648-26-9	0.0433 JB	0.0171	5.23	1
11031	123678-HxCDF	57117-44-9	0.0171 JB	0.0147	5.23	1
11031	123789-HxCDF	72918-21-9	0.0760 JBQ	0.0207	5.23	1
11031	234678-HxCDF	60851-34-5	0.0459 JB	0.0164	5.23	1
11031	1234678-HpCDF	67562-39-4	0.424 JB	0.0148	5.23	1
11031	1234789-HpCDF	55673-89-7	0.0853 JB	0.0252	5.23	1
11031	OCDF	39001-02-0	1.12 JB	0.0394	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DN-SB-10.5-11.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DN-SB-10.5-11.5

LLI Sample # SW 6312190
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 10:39

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-02 SDG#: DX101-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 16:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0318 U	0.0318	1.13	1
11031	12378-PeCDD	40321-76-4	0.0453 JBQ	0.0272	5.66	1
11031	123478-HxCDD	39227-28-6	0.0409 J	0.0234	5.66	1
11031	123678-HxCDD	57653-85-7	0.160 JB	0.0237	5.66	1
11031	123789-HxCDD	19408-74-3	0.312 JB	0.0238	5.66	1
11031	1234678-HpCDD	35822-46-9	0.786 JB	0.0417	5.66	1
11031	OCDD	3268-87-9	5.42 JB	0.0285	11.3	1
11031	2378-TCDF	51207-31-9	0.0286 U	0.0286	1.13	1
11031	12378-PeCDF	57117-41-6	0.0988 JBQ	0.0143	5.66	1
11031	23478-PeCDF	57117-31-4	0.0612 JBQ	0.0149	5.66	1
11031	123478-HxCDF	70648-26-9	0.0310 JB	0.0178	5.66	1
11031	123678-HxCDF	57117-44-9	0.0286 JBQ	0.0147	5.66	1
11031	123789-HxCDF	72918-21-9	0.333 JB	0.0198	5.66	1
11031	234678-HxCDF	60851-34-5	0.0535 JBQ	0.0167	5.66	1
11031	1234678-HpCDF	67562-39-4	0.122 JB	0.00983	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0627 JBQ	0.0179	5.66	1
11031	OCDF	39001-02-0	0.270 JB	0.0467	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-4.0-5.0

LLI Sample # SW 6312191
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-03 SDG#: DX101-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 17:00	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0263 U	0.0263	1.11	1
11031	12378-PeCDD	40321-76-4	0.0237 U	0.0237	5.55	1
11031	123478-HxCDD	39227-28-6	0.0254 JQ	0.0193	5.55	1
11031	123678-HxCDD	57653-85-7	0.0501 JBQ	0.0194	5.55	1
11031	123789-HxCDD	19408-74-3	0.0401 JBQ	0.0188	5.55	1
11031	1234678-HpCDD	35822-46-9	0.626 JB	0.0322	5.55	1
11031	OCDD	3268-87-9	3.92 JB	0.0216	11.1	1
11031	2378-TCDF	51207-31-9	0.0233 U	0.0233	1.11	1
11031	12378-PeCDF	57117-41-6	0.0193 JBQ	0.0109	5.55	1
11031	23478-PeCDF	57117-31-4	0.0408 JBQ	0.0115	5.55	1
11031	123478-HxCDF	70648-26-9	0.0194 JB	0.0120	5.55	1
11031	123678-HxCDF	57117-44-9	0.0182 JBQ	0.0102	5.55	1
11031	123789-HxCDF	72918-21-9	0.0129 U	0.0129	5.55	1
11031	234678-HxCDF	60851-34-5	0.0476 JBQ	0.0111	5.55	1
11031	1234678-HpCDF	67562-39-4	0.0890 JB	0.00780	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0270 JBQ	0.0136	5.55	1
11031	OCDF	39001-02-0	0.171 JB	0.0321	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA5DN-SB-11.2-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5DN-SB-11.2-12.5

LLI Sample # SW 6312192
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 09:30

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-04 SDG#: DX101-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 17:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11165162401B	06/14/2011 17:45	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0294	U	0.0294	1.15	1
11031	12378-PeCDD	40321-76-4	0.0266	U	0.0266	5.77	1
11031	123478-HxCDD	39227-28-6	0.0311	J	0.0247	5.77	1
11031	123678-HxCDD	57653-85-7	0.124	JBQ	0.0247	5.77	1
11031	123789-HxCDD	19408-74-3	0.155	JB	0.0258	5.77	1
11031	1234678-HpCDD	35822-46-9	2.49	JB	0.0421	5.77	1
11031	OCDD	3268-87-9	17.4	B	0.0291	11.5	1
11031	2378-TCDF	51207-31-9	0.0658	J	0.0490	1.15	1
11031	12378-PeCDF	57117-41-6	0.148	JBQ	0.0208	5.77	1
11031	23478-PeCDF	57117-31-4	0.133	JB	0.0216	5.77	1
11031	123478-HxCDF	70648-26-9	0.120	JB	0.0218	5.77	1
11031	123678-HxCDF	57117-44-9	0.0500	JB	0.0173	5.77	1
11031	123789-HxCDF	72918-21-9	0.146	JBQ	0.0265	5.77	1
11031	234678-HxCDF	60851-34-5	0.102	JBQ	0.0196	5.77	1
11031	1234678-HpCDF	67562-39-4	0.245	JB	0.0133	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0415	JBQ	0.0255	5.77	1
11031	OCDF	39001-02-0	0.475	JB	0.0444	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-116-SA8N-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-116-SA8N-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA8N-SB-4.0-5.0

LLI Sample # SW 6312193
LLI Group # 1250866
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/09/2011 12:25

Submitted: 06/10/2011 10:00
Reported: 07/12/2011 21:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-05 SDG#: DX101-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 18:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250866
Reported: 07/12/11 at 09:48 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11165162401B	Sample number(s): 6312191-6312192								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162404A	Sample number(s): 6312189								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162404B	Sample number(s): 6312190,6312193								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11189001	Sample number(s): 6312189-6312193								
2378-TCDD	0.0484 J	0.0301	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0813 J	0.0259	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0201 U	0.0201	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0652 J	0.0198	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0708 J	0.0192	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.430 J	0.0268	5.00	ng/kg	90		70-140		
OCDD	1.02 J	0.0189	10.0	ng/kg	92		78-144		
2378-TCDF	0.0249 U	0.0249	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0348 J	0.0107	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0794 J	0.0117	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0625 J	0.0163	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0628 J	0.0125	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0946 J	0.0175	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0912 J	0.0141	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.145 J	0.0105	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0985 J	0.0187	5.00	ng/kg	93		78-138		
OCDF	0.388 J	0.0375	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11165162401B	Sample number(s): 6312191-6312192					BKG: P312177			
Moisture Content by 160.3						12.5	12.4	1	20
Batch number: 11174162404A	Sample number(s): 6312189					BKG: P312175			
Moisture Content by 160.3						14.1	14.5	3	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1250866
Reported: 07/12/11 at 09:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162404B	Sample number(s): 6312190,6312193					BKG: P318825			
Moisture Content by 160.3						14.0	14.1	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11189001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6312189	75	75	67	74	69	67
6312190	73	70	69	78	71	68
6312191	70	65	60	70	61	61
6312192	73	73	70	80	72	71
6312193	69	68	66	80	69	61
Blank	67	69	65	81	71	66
OPR	67	67	61	77	64	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6312189	77	65	63	76	76	79
6312190	92	63	61	75	80	83
6312191	82	53	50	76	74	76
6312192	91	67	64	77	80	82
6312193	94	61	63	75	83	85
Blank	89	63	60	74	80	83
OPR	93	54	54	74	77	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6312189	77	76	74	75	80
6312190	78	83	80	68	78
6312191	73	74	69	64	74
6312192	82	85	81	72	82
6312193	80	84	85	64	76
Blank	82	83	79	64	83
OPR	78	83	80	61	78
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1250866 Sample# 6312189-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-037-SA5DN-SB-4.5	06.09.11	1515	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-4.0-5.0	06.09.11	1520	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-037-SA5DN-SB-12.0	06.09.11	1525	SOIL	NONE	5-Encores										X	X	X										
SL-037-SA5DN-SB-11.5-12.5	06.09.11	1530	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-4.5	06.09.11	1405	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-4.0-5.0	06.09.11	1410	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-038-SA5DN-SB-12.0	06.09.11	1415	SOIL	NONE	5-Encores										X	X	X										
SL-038-SA5DN-SB-11.5-12.5	06.09.11	1420	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-4.5	06.09.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-4.0-5.0	06.09.11	1135	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-039-SA5DN-SB-12.0	06.09.11	1140	SOIL	NONE	5-Encores										X	X	X										
SL-039-SA5DN-SB-11.5-12.5	06.09.11	1145	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-4.5	06.09.11	1015	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-4.0-5.0	06.09.11	1020	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-040-SA5DN-SB-12.0	06.09.11	1025	SOIL	NONE	5-Encores										X	X	X										
SL-040-SA5DN-SB-11.5-12.5	06.09.11	1030	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-050-SA5DN-SB-4.5	06.09.11	0920	SOIL	NONE	4-Encores										X	X											
SL-050-SA5DN-SB-4.0-5.0	06.09.11	0925	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-050-SA5DN-SB-11.2-12.5	06.09.11	0930	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	06/09/2011 / 1700	Mary Mark 6/10/11 1000	Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3340 0541,0552,0563,0574	

acct# 13013 Qp# 1250866 Sample# 6312189-93

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 15 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: Vidal Cotton

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Diesel/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-116-SA8N-SB-4.5	06.09.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-116-SA8N-SB-4.0-5.0	06.09.11	1225	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-060911	06.09.11	0900	WATER	*HCl	4-40 mL VOA VIALS										X	X	X										FIELD BLANK

Relinquished by: (Signature) — Date/Time: 06/09/2011 / 1700

Received by: (Signature) — Date/Time:

Received for Laboratory by: (Signature) Nancy Hecht 6/10/11 1000

Airbill No.(s): 8754 3340 0541,0552,0563,0574

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/11/2011
Group Number: 1251033
SDG: DE178
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA5DN-SB-4.0-5.0 Soil	6313367
SL-041-SA5DN-SB-9.0-10.0 Soil	6313368
SL-045-SA5DN-SB-4.0-5.0 Soil	6313369
SL-045-SA5DN-SB-9.0-10.0 Soil	6313370
SL-048-SA5DN-SB-4.0-5.0 Soil	6313371
SL-048-SA5DN-SB-11.5-12.5 Soil	6313372
SL-049-SA5DN-SB-4.0-5.0 Soil	6313373
SL-049-SA5DN-SB-15.5-16.5 Soil	6313374
SL-111-SA8N-SB-3.0-4.0 Soil	6313375
TB-061011 Water	6313376

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	8.9		0.93
06192	Benzene	71-43-2	0.11	U	0.11	4.5		0.93
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.5		0.93
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		0.93
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		0.93
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		0.93
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		0.93
06192	2-Butanone	78-93-3	1.4	U	1.4	8.9		0.93
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.5		0.93
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		0.93
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		0.93
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		0.93
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		0.93
06192	Chloroethane	75-00-3	0.14	U	0.14	4.5		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.5		0.93
06192	Chloroform	67-66-3	0.13	U	0.13	4.5		0.93
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		0.93
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		0.93
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		0.93
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78	U	0.78	4.5		0.93
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		0.93
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		0.93
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.5		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		0.93
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.5		0.93
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		0.93
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		0.93
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.5		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.5		0.93
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		0.93
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		0.93
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		0.93
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.5		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		0.93
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		0.93
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		0.93
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		0.93
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		0.93
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.9		0.93
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		0.93
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.5		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.9		0.93
06192	Methylene Chloride	75-09-2	1.7	J	0.27	4.5		0.93
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		0.93

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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		0.93
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		0.93
06192	Toluene	108-88-3	0.11	J	0.09	4.5		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		0.93
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		0.93
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.5		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		0.93
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		0.93
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		0.93
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		0.93
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		21.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.7	U	19.7	39.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	20	390		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.51	J	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	3.4		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	3.5		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	3.0		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	4.1		0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.91	J	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1

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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	6.3		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.7	J	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	2.3		0.79	2.0		1
10138	Pyrene	129-00-0	5.1		0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.01
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	72	U	72	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	48	U	48	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	95	U	95	290	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	95	U	95	290	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	48	U	48	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	48	U	48	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	48	U	48	140	10000000	1
10132	HMX	2691-41-0	120	U	120	360	10000000	1
10132	Nitrobenzene	98-95-3	48	U	48	140	10000000	1
10132	Nitroglycerin	55-63-0	950	U	950	2,900	10000000	1
10132	2-Nitrotoluene	88-72-2	95	U	95	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	95	U	95	140	10000000	1
10132	PETN	78-11-5	950	U	950	2,900	10000000	1
10132	RDX	121-82-4	60	U	60	140	10000000	1
10132	Tetryl	479-45-8	73	U	73	140	10000000	1

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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	48	U	48	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	48	U	48	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	4.2		1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	2.9		0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.95	U	0.95	2.9		2
10199	EFH (C15-C20)	n.a.	1.2	J	0.95	2.9		2
10199	EFH (C21-C30)	n.a.	24		0.95	2.9		2
10199	EFH (C30 - C40)	n.a.	55		0.95	2.9		2
10199	EFH (C8-C11)	n.a.	0.95	U	0.95	2.9		2

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1

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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,300		7.07	23.4		1
07914	Boron	7440-42-8	6.92		0.421	5.84		1
01650	Calcium	7440-70-2	12,100		2.92	23.4		1
01654	Iron	7439-89-6	33,200		6.10	46.7		2
01656	Lithium	7439-93-2	24.8		0.72	2.3		1
01657	Magnesium	7439-95-4	6,810		0.514	11.7		1
06958	Manganese	7439-96-5	589		0.0421	0.584		1
10145	Phosphorus	7723-14-0	262		0.409	11.7		1
01662	Potassium	7440-09-7	3,730		13.2	58.4		1
01667	Sodium	7440-23-5	308		6.95	117		1
07968	Strontium	7440-24-6	43.7		0.0292	0.584		1
06969	Tin	7440-31-5	2.83	J	0.374	11.7		1
06970	Titanium	7440-32-6	1,050		0.0838	1.18		1
10146	Zirconium	7440-67-7	3.31	J	0.538	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.258		0.0848	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.70		0.0917	0.458		2
06126	Barium	7440-39-3	159		0.121	0.458		2
06127	Beryllium	7440-41-7	0.861		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.469		0.0504	0.115		2
06131	Chromium	7440-47-3	40.3		0.138	0.458		2
06132	Cobalt	7440-48-4	11.5		0.0229	0.115		2
06133	Copper	7440-50-8	18.4		0.0917	0.458		2
06135	Lead	7439-92-1	18.1		0.0119	0.234		2
06138	Molybdenum	7439-98-7	0.439		0.0573	0.115		2
06139	Nickel	7440-02-0	23.9		0.115	0.458		2
06141	Selenium	7782-49-2	0.216	J	0.0665	0.458		2
06142	Silver	7440-22-4	0.0648	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.510		0.0344	0.115		2
06148	Vanadium	7440-62-2	68.1		0.0252	0.115		2
06149	Zinc	7440-66-6	74.1		0.642	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	U	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.95	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	2.1		0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 07:58	Angela D Sneeringer	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 19:15	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:41	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	06/30/2011 23:40	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 11:06	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 12:51	Joseph M Gambler	1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 21:40	Marie D John	21.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:41	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 13:30	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:05	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 19:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 05:23	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 19:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:14	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 08:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:37	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 14:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313367
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17801 SDG#: DE178-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 14:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 14:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 14:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 04:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 04:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 14:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 18:34	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:48	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.3	U	7.3	8.7		0.97
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.97
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.97
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.97
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.97
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.97
06192	Bromomethane	74-83-9	0.27	U	0.27	4.4		0.97
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.97
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.97
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.97
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.4		0.97
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.97
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.97
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.97
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.97
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.97
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.97
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.97
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.4		0.97
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.97
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.97
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.4		0.97
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.97
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.97
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.4		0.97
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.97
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.97
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.97
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.97
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.4		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.97
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.97
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.97
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.97
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.97
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.97
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.97
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.7		0.97
06192	Methylene Chloride	75-09-2	2.4	J	0.26	4.4		0.97
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.97

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.97
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.97
06192	Toluene	108-88-3	0.11	J	0.09	4.4		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.97
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.4		0.97
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.97
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.97
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.97
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.97
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	1.8	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	1.6	J	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.89	J	0.75	1.9		1
10138	Pyrene	129-00-0	1.7	J	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.46
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	3.2		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	7.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample surrogate data is outside the QC limits. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,900		6.55	21.7		1
07914	Boron	7440-42-8	5.63		0.390	5.41		1
01650	Calcium	7440-70-2	10,100		2.71	21.7		1
01654	Iron	7439-89-6	27,500		2.83	21.7		1
01656	Lithium	7439-93-2	22.6		0.67	2.2		1
01657	Magnesium	7439-95-4	5,890		0.476	10.8		1
06958	Manganese	7439-96-5	237		0.0390	0.541		1
10145	Phosphorus	7723-14-0	215		0.379	10.8		1
01662	Potassium	7440-09-7	2,920		12.2	54.1		1
01667	Sodium	7440-23-5	335		6.44	108		1
07968	Strontium	7440-24-6	36.3		0.0271	0.541		1
06969	Tin	7440-31-5	2.54	J	0.347	10.8		1
06970	Titanium	7440-32-6	370		0.0769	1.08		1
10146	Zirconium	7440-67-7	3.96	J	0.498	5.41		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0809	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.91		0.0875	0.437		2
06126	Barium	7440-39-3	37.5		0.116	0.437		2
06127	Beryllium	7440-41-7	0.228		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0853	J	0.0481	0.109		2
06131	Chromium	7440-47-3	15.2		0.131	0.437		2
06132	Cobalt	7440-48-4	3.15		0.0219	0.109		2
06133	Copper	7440-50-8	4.66		0.0875	0.437		2
06135	Lead	7439-92-1	3.15		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.585		0.0547	0.109		2
06139	Nickel	7440-02-0	7.91		0.109	0.437		2
06141	Selenium	7782-49-2	0.0634	U	0.0634	0.437		2
06142	Silver	7440-22-4	0.0155	U	0.0155	0.109		2
06145	Thallium	7440-28-0	0.0669	J	0.0328	0.109		2
06148	Vanadium	7440-62-2	19.7		0.0241	0.109		2
06149	Zinc	7440-66-6	18.6		0.612	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.109		1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.90	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 08:20	Angela D Sneeringer	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 19:35	Jason M Long	20.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:44	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:44	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/08/2011 14:31	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 12:26	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 13:23	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 22:16	Marie D John	24.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:44	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 14:13	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:15	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:30	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 19:26	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 02:02	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 19:42	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:27	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 01:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1

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Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313368
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17802 SDG#: DE178-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 05:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 05:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 15:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 18:40	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:50	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.1		0.86
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1		0.86
06192	Methylene Chloride	75-09-2	1.3	J	0.24	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.86

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.86
06192	Toluene	108-88-3	0.09	J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.86
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		21.51
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	80.4		19.6	39.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

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Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1

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17803 SDG#: DE178-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1

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Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	4.4		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	12		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1

Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1

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Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,000		7.14	23.6		1
07914	Boron	7440-42-8	6.50		0.425	5.90		1
01650	Calcium	7440-70-2	7,510		2.95	23.6		1
01654	Iron	7439-89-6	33,000		6.16	47.2		2
01656	Lithium	7439-93-2	27.3		0.73	2.4		1
01657	Magnesium	7439-95-4	6,920		0.519	11.8		1
06958	Manganese	7439-96-5	230		0.0425	0.590		1
10145	Phosphorus	7723-14-0	221		0.413	11.8		1
01662	Potassium	7440-09-7	3,510		13.3	59.0		1
01667	Sodium	7440-23-5	603		7.02	118		1
07968	Strontium	7440-24-6	43.0		0.0295	0.590		1
06969	Tin	7440-31-5	2.77	J	0.378	11.8		1
06970	Titanium	7440-32-6	1,270		0.0814	1.15		1
10146	Zirconium	7440-67-7	4.47	J	0.543	5.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.332		0.0865	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.53		0.0935	0.468		2
06126	Barium	7440-39-3	154		0.124	0.468		2
06127	Beryllium	7440-41-7	1.06		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.158		0.0514	0.117		2
06131	Chromium	7440-47-3	39.7		0.140	0.468		2
06132	Cobalt	7440-48-4	11.1		0.0234	0.117		2
06133	Copper	7440-50-8	20.2		0.0935	0.468		2
06135	Lead	7439-92-1	13.0		0.0117	0.229		2
06138	Molybdenum	7439-98-7	0.432		0.0584	0.117		2
06139	Nickel	7440-02-0	23.7		0.117	0.468		2
06141	Selenium	7782-49-2	0.0776	J	0.0678	0.468		2
06142	Silver	7440-22-4	0.0746	J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.412		0.0351	0.117		2
06148	Vanadium	7440-62-2	67.6		0.0257	0.117		2
06149	Zinc	7440-66-6	75.6		0.655	3.51		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	U	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.94	U	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-045-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 08:42	Angela D Sneeringer	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 19:55	Jason M Long	21.51
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:47	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:47	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 00:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 12:53	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 13:55	Joseph M Gambler	1

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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 22:53	Marie D John	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:47	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 14:55	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:24	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 19:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 02:27	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 19:57	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:40	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 00:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01654	Iron	SW-846 6010B	2	111685708002	06/23/2011 03:41	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:20	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:29	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313369
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17803 SDG#: DE178-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 05:36	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 05:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 16:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 18:51	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:51	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.9		6.9	8.3		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.2		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.2		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3		0.9
06192	Methylene Chloride	75-09-2	2.2	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.08	U	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		22.24
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.29
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1

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Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
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17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.7		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.2		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1

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SSFL Area IV Collocated Soil Sampling
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LLI Sample # SW 6313370
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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17804 SDG#: DE178-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,100		6.69	22.1		1
07914	Boron	7440-42-8	4.71	J	0.398	5.53		1
01650	Calcium	7440-70-2	9,870		2.77	22.1		1
01654	Iron	7439-89-6	27,200		2.89	22.1		1
01656	Lithium	7439-93-2	23.8		0.69	2.2		1
01657	Magnesium	7439-95-4	5,610		0.487	11.1		1
06958	Manganese	7439-96-5	212		0.0398	0.553		1
10145	Phosphorus	7723-14-0	269		0.387	11.1		1
01662	Potassium	7440-09-7	3,060		12.5	55.3		1
01667	Sodium	7440-23-5	576		6.58	111		1
07968	Strontium	7440-24-6	37.3		0.0277	0.553		1
06969	Tin	7440-31-5	2.51	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,180		0.0793	1.12		1
10146	Zirconium	7440-67-7	4.74	J	0.509	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.369		0.0843	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.61		0.0911	0.456		2
06126	Barium	7440-39-3	153		0.121	0.456		2
06127	Beryllium	7440-41-7	1.31		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.273		0.0501	0.114		2
06131	Chromium	7440-47-3	45.7		0.137	0.456		2
06132	Cobalt	7440-48-4	10.7		0.0228	0.114		2
06133	Copper	7440-50-8	21.2		0.0911	0.456		2
06135	Lead	7439-92-1	11.7		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.639		0.0570	0.114		2
06139	Nickel	7440-02-0	33.6		0.114	0.456		2
06141	Selenium	7782-49-2	0.0661	U	0.0661	0.456		2
06142	Silver	7440-22-4	0.0411	J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.471		0.0342	0.114		2
06148	Vanadium	7440-62-2	84.8		0.0251	0.114		2
06149	Zinc	7440-66-6	86.7		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.4		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.1		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SL-045-SA5DN-SB-9.0-10.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.30		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-045-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 09:04	Angela D Sneeringer	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 20:15	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:50	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 01:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 13:19	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 14:27	Joseph M Gambler	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/14/2011 23:29	Marie D John	21.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:49	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 15:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:34	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:03	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 00:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 20:12	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 18:53	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 07:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:24	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 05:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 05:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 16:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 19:03	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:52	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401A	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.91
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.91
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.91
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.91
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.91
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.91
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.91
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.91
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.91
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.91
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.91
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.91
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.91
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.91
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.91
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.91
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.2		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.91
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.91
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.91
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.91
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.91
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.91
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.91
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.91
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.91
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.91
06192	Methylene Chloride	75-09-2	1.7	J	0.26	4.2		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.91

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Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.91
06192	Toluene	108-88-3	0.10	J	0.09	4.2		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.91
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.91
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.26
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

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17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,200		6.98	23.1		1
07914	Boron	7440-42-8	9.27		0.415	5.77		1
01650	Calcium	7440-70-2	7,400		2.88	23.1		1
01654	Iron	7439-89-6	37,000		6.02	46.2		2
01656	Lithium	7439-93-2	29.5		0.72	2.3		1
01657	Magnesium	7439-95-4	8,640		0.508	11.5		1
06958	Manganese	7439-96-5	392		0.0415	0.577		1
10145	Phosphorus	7723-14-0	430		0.404	11.5		1
01662	Potassium	7440-09-7	3,590		13.0	57.7		1
01667	Sodium	7440-23-5	745		6.87	115		1
07968	Strontium	7440-24-6	47.1		0.0288	0.577		1
06969	Tin	7440-31-5	2.75	J	0.369	11.5		1
06970	Titanium	7440-32-6	568		0.0819	1.15		1
10146	Zirconium	7440-67-7	5.92		0.531	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.353		0.0846	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.92		0.0914	0.457		2
06126	Barium	7440-39-3	177		0.121	0.457		2
06127	Beryllium	7440-41-7	1.11		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.355		0.0503	0.114		2
06131	Chromium	7440-47-3	40.7		0.137	0.457		2

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SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	14.0	0.0229	0.114		2
06133	Copper	7440-50-8	22.6	0.0914	0.457		2
06135	Lead	7439-92-1	13.2	0.0118	0.231		2
06138	Molybdenum	7439-98-7	0.467	0.0571	0.114		2
06139	Nickel	7440-02-0	28.8	0.114	0.457		2
06141	Selenium	7782-49-2	0.0688 J	0.0663	0.457		2
06142	Silver	7440-22-4	0.0609 J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.425	0.0343	0.114		2
06148	Vanadium	7440-62-2	72.4	0.0251	0.114		2
06149	Zinc	7440-66-6	93.6	0.640	3.43		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	24.2	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.09	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-048-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 09:27	Angela D Sneeringer	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 20:34	Jason M Long	20.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:52	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:52	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 13:46	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 14:59	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:22	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:44	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:28	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:49	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313371
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17805 SDG#: DE178-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 09:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 17:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 19:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		6.47	21.4		1
07914	Boron	7440-42-8	2.21	J	0.385	5.34		1
01650	Calcium	7440-70-2	6,950		2.67	21.4		1

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Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,300		2.79	21.4		1
01656	Lithium	7439-93-2	21.8		0.66	2.1		1
01657	Magnesium	7439-95-4	4,090		0.470	10.7		1
06958	Manganese	7439-96-5	357		0.0385	0.534		1
10145	Phosphorus	7723-14-0	166		0.374	10.7		1
01662	Potassium	7440-09-7	1,680		12.1	53.4		1
01667	Sodium	7440-23-5	383		6.36	107		1
07968	Strontium	7440-24-6	22.7		0.0267	0.534		1
06969	Tin	7440-31-5	2.57	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,180		0.398	5.61		5
10146	Zirconium	7440-67-7	3.44	J	0.492	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.254		0.0806	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.11		0.0872	0.436		2
06126	Barium	7440-39-3	119		0.116	0.436		2
06127	Beryllium	7440-41-7	0.897		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0972	J	0.0479	0.109		2
06131	Chromium	7440-47-3	27.4		0.131	0.436		2
06132	Cobalt	7440-48-4	6.25		0.0218	0.109		2
06133	Copper	7440-50-8	12.4		0.0872	0.436		2
06135	Lead	7439-92-1	4.98		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.481		0.0545	0.109		2
06139	Nickel	7440-02-0	18.3		0.109	0.436		2
06141	Selenium	7782-49-2	0.0659	J	0.0632	0.436		2
06142	Silver	7440-22-4	0.0469	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.345		0.0327	0.109		2
06148	Vanadium	7440-62-2	50.6		0.0240	0.109		2
06149	Zinc	7440-66-6	51.7		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.5		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.37	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 18:38	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 15:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:40	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/24/2011 03:02	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 10:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313372
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17806 SDG#: DE178-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 09:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 17:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 19:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.3		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.14	U	0.14	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.87
06192	Methylene Chloride	75-09-2	1.5	J	0.25	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.87
06192	Toluene	108-88-3	0.15	J	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.87
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.15
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	12	J	7.1	21		1
10138	Chrysene	218-01-9	1.8	J	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	2.8		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.83	J	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.80	J	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.79	2.0		1
10138	Pyrene	129-00-0	2.1		0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.7	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,800		6.96	23.0		1
07914	Boron	7440-42-8	6.22		0.414	5.75		1
01650	Calcium	7440-70-2	8,600		2.88	23.0		1
01654	Iron	7439-89-6	39,800		6.00	46.0		2
01656	Lithium	7439-93-2	26.2		0.71	2.3		1
01657	Magnesium	7439-95-4	7,730		0.506	11.5		1
06958	Manganese	7439-96-5	493		0.0414	0.575		1
10145	Phosphorus	7723-14-0	275		0.403	11.5		1
01662	Potassium	7440-09-7	3,730		13.0	57.5		1
01667	Sodium	7440-23-5	663		6.84	115		1
07968	Strontium	7440-24-6	51.6		0.0288	0.575		1
06969	Tin	7440-31-5	2.56	J	0.368	11.5		1
06970	Titanium	7440-32-6	881		0.0801	1.13		1
10146	Zirconium	7440-67-7	3.91	J	0.529	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.380		0.0851	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.43		0.0920	0.460		2
06126	Barium	7440-39-3	201		0.305	1.15		5
06127	Beryllium	7440-41-7	1.18		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.433		0.0506	0.115		2
06131	Chromium	7440-47-3	44.9		0.138	0.460		2

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Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06132	Cobalt	7440-48-4	16.2	0.0230	0.115		2
06133	Copper	7440-50-8	23.4	0.0920	0.460		2
06135	Lead	7439-92-1	15.7	0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.568	0.0575	0.115		2
06139	Nickel	7440-02-0	31.3	0.115	0.460		2
06141	Selenium	7782-49-2	0.174 J	0.0667	0.460		2
06142	Silver	7440-22-4	0.0715 J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.475	0.0345	0.115		2
06148	Vanadium	7440-62-2	81.0	0.0253	0.115		2
06149	Zinc	7440-66-6	99.3	0.644	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151 J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	22.9	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 09:49	Angela D Sneeringer	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 20:54	Jason M Long	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:56	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:55	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 19:04	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 16:02	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 20:59	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/23/2011 03:48	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:35	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:46	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06126	Barium	SW-846 6020	2	111681026001D	06/23/2011 11:39	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:55	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313373
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17807 SDG#: DE178-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 10:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 18:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 19:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	2.9		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.6	J	6.8	21		1
10138	Fluoranthene	206-44-0	3.8		0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	2.0		0.76	1.9		1
10138	Pyrene	129-00-0	2.9		0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		6.57	21.7		1
07914	Boron	7440-42-8	3.19	J	0.391	5.43		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,760	2.71	21.7		1
01654	Iron	7439-89-6	24,100	2.83	21.7		1
01656	Lithium	7439-93-2	26.2	0.67	2.2		1
01657	Magnesium	7439-95-4	5,130	0.478	10.9		1
06958	Manganese	7439-96-5	169	0.0391	0.543		1
10145	Phosphorus	7723-14-0	272	0.380	10.9		1
01662	Potassium	7440-09-7	2,890	12.3	54.3		1
01667	Sodium	7440-23-5	365	6.46	109		1
07968	Strontium	7440-24-6	29.3	0.0271	0.543		1
06969	Tin	7440-31-5	2.47 J	0.348	10.9		1
06970	Titanium	7440-32-6	1,150	0.0810	1.14		1
10146	Zirconium	7440-67-7	3.85 J	0.500	5.43		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.256	0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.82	0.0903	0.452		2
06126	Barium	7440-39-3	72.5	0.120	0.452		2
06127	Beryllium	7440-41-7	0.793	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.231	0.0497	0.113		2
06131	Chromium	7440-47-3	27.6	0.135	0.452		2
06132	Cobalt	7440-48-4	10.2	0.0226	0.113		2
06133	Copper	7440-50-8	15.5	0.0903	0.452		2
06135	Lead	7439-92-1	9.00	0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.600	0.0564	0.113		2
06139	Nickel	7440-02-0	23.9	0.113	0.452		2
06141	Selenium	7782-49-2	0.0655 U	0.0655	0.452		2
06142	Silver	7440-22-4	0.0361 J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.307	0.0339	0.113		2
06148	Vanadium	7440-62-2	56.5	0.0248	0.113		2
06149	Zinc	7440-66-6	62.9	0.632	3.39		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0422 J	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.6	0.91	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011	19:30	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011	20:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011	14:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011	21:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011	18:00	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011	19:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011	04:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011	10:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011	10:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313374
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17808 SDG#: DE178-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 10:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 10:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 10:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 10:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 18:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243201A	06/16/2011 20:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5	U	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	1.5	J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.89

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.89
06192	Toluene	108-88-3	0.09	J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.89
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: methylene chloride.							
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.1	U	5.1	15		23.23
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.1	U	18.1	36.1		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.8		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	4.1		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
	Target analytes were detected in the method blank associated with the sample as noted in the QC summary. The sample was re-extracted within the method holding time. Target analytes were detected in the re-extracted method blank. Similar results were obtained in both extracts. The re-extracted data is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
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17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.50	21.5		1
07914	Boron	7440-42-8	1.94	J	0.387	5.37		1
01650	Calcium	7440-70-2	2,090		2.68	21.5		1
01654	Iron	7439-89-6	18,300		2.80	21.5		1
01656	Lithium	7439-93-2	19.5		0.67	2.1		1
01657	Magnesium	7439-95-4	3,370		0.472	10.7		1
06958	Manganese	7439-96-5	115		0.0387	0.537		1
10145	Phosphorus	7723-14-0	250		0.376	10.7		1
01662	Potassium	7440-09-7	1,960		12.1	53.7		1
01667	Sodium	7440-23-5	81.9	J	6.39	107		1
07968	Strontium	7440-24-6	18.7		0.0268	0.537		1
06969	Tin	7440-31-5	2.50	J	0.344	10.7		1
06970	Titanium	7440-32-6	873		0.0755	1.06		1
10146	Zirconium	7440-67-7	1.55	J	0.494	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.69		0.0851	0.425		2
06126	Barium	7440-39-3	75.2		0.113	0.425		2
06127	Beryllium	7440-41-7	0.522		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0584	J	0.0468	0.106		2
06131	Chromium	7440-47-3	16.9		0.128	0.425		2
06132	Cobalt	7440-48-4	3.72		0.0213	0.106		2
06133	Copper	7440-50-8	6.05		0.0851	0.425		2
06135	Lead	7439-92-1	5.90		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.485		0.0532	0.106		2
06139	Nickel	7440-02-0	8.58		0.106	0.425		2
06141	Selenium	7782-49-2	0.175	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0400	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.222		0.0319	0.106		2
06148	Vanadium	7440-62-2	31.2		0.0234	0.106		2
06149	Zinc	7440-66-6	41.4		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0125	J	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.22	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	5.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-111-SA8N-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111661AA	06/15/2011 10:46	Angela D Sneeringer	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111642AA	06/13/2011 21:13	Jason M Long	23.23
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116224650	06/11/2011 15:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116224650	06/11/2011 14:58	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 01:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLB026	06/24/2011 19:57	Dale R Stoneroad	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 20:47	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLB026	06/20/2011 14:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11165A34A	06/15/2011 00:05	Marie D John	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116224650	06/11/2011 14:58	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111640008A	06/17/2011 16:20	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111660002A	06/17/2011 05:43	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 21:36	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111660002A	06/15/2011 12:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	111640008A	06/13/2011 15:15	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111710009A	06/21/2011 00:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 20:27	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111650003A	06/15/2011 19:05	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111660005A	06/17/2011 01:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	111710009A	06/20/2011 14:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	111660005A	06/15/2011 15:30	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111650003A	06/14/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708005	06/22/2011 19:42	John P Hook	1
10146	Zirconium	SW-846 6010B	1	111685708002	06/21/2011 04:55	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026001D	06/21/2011 11:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2

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Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313375
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17809 SDG#: DE178-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111731026001A	06/23/2011 08:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026001C	06/21/2011 11:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026001B	06/21/2011 11:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026001A	06/21/2011 11:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711003	06/20/2011 09:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708002	06/19/2011 08:56	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111725708005	06/22/2011 08:57	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026001	06/20/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111731026001	06/22/2011 21:26	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711003	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11172621202A	06/22/2011 10:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11172621202A	06/22/2011 10:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621201A	06/23/2011 18:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243201A	06/16/2011 20:17	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11168102201B	06/20/2011 08:53	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11172621202A	06/21/2011 07:20	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621201A	06/23/2011 06:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11168102201B	06/17/2011 15:30	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243201A	06/15/2011 10:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: TB-061011 Water
SSFL Area IV Collocated Soil Sampling
TB-061011

LLI Sample # WW 6313376
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 08:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17810 SDG#: DE178-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-061011 Water
SSFL Area IV Collocated Soil Sampling
TB-061011

LLI Sample # WW 6313376
LLI Group # 1251033
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 08:00

Submitted: 06/11/2011 09:15
Reported: 07/11/2011 11:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

17810 SDG#: DE178-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111651AA	06/14/2011 17:39	Kevin A Sposito	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111641AA	06/13/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111641AA	06/13/2011 10:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111651AA	06/14/2011 17:39	Kevin A Sposito	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11172B20A	06/22/2011 20:43	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	11172B20A	06/22/2011 20:43	Linda C Pape	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111661AA	Sample number(s): 6313367-6313371,6313373,6313375									
Acetone	9.0		6.7	8.0	ug/kg	117	124	32-209	6	30
Benzene	0.10	U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	99	98	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	108	107	79-124	0	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	103	102	78-120	1	30
Bromoform	0.40	U	0.40	4.0	ug/kg	101	103	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	83	86	32-162	3	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	106	113	46-153	6	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	102	91	72-120	11	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	100	93	75-120	8	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	96	91	75-120	6	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	108	107	69-122	1	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	102	102	80-120	0	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	75	78	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	89	94	43-146	6	30
Chloroform	0.12	U	0.12	4.0	ug/kg	109	107	80-120	2	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	92	96	54-132	4	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	97	98	78-120	1	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	102	101	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	71	69	22-131	3	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108	112	58-120	4	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	102	103	77-120	1	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	105	106	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	103	100	79-120	3	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	99	97	78-120	2	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	100	98	79-120	2	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	76	77	20-120	2	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108	108	80-120	0	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	115	115	71-129	0	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	109	109	73-123	0	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	102	102	80-120	0	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	104	101	79-120	2	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	103	104	80-120	1	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	106	108	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	110	112	72-123	2	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	104	103	77-120	1	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	99	100	80-120	1	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99	102	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	103	102	80-120	1	30
Freon 113	0.11	U	0.11	4.0	ug/kg	101	101	61-126	0	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	103	102	78-120	1	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	90	69	57-120	27	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	107	114	45-155	6	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	106	102	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	100	92	75-120	8	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	108	112	74-121	3	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	111	118	61-134	6	30
Methylene Chloride	1.4	J	0.24	4.0	ug/kg	128*	125*	76-124	2	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	103	99	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	103	101	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	104	80-120	0	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	100	105	71-123	5	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	101	99	77-120	2	30
Toluene	0.08	U	0.08	4.0	ug/kg	103	103	80-120	1	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	96	87	64-120	10	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	89	81	68-120	9	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	103	71-125	0	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	103	106	80-120	2	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	102	100	80-120	1	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	95	94	58-133	1	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	106	107	71-123	2	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	101	98	79-120	3	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	103	100	78-120	3	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	89	93	53-120	4	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	107	105	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	104	102	80-120	2	30
Batch number: E111641AA	Sample number(s): 6313376									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	102	109	80-123	7	30
Batch number: E111642AA	Sample number(s): 6313367-6313371,6313373,6313375									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	99	107	70-130	8	30
Batch number: L111651AA	Sample number(s): 6313376									
Acetone	6	U	6.	20	ug/l	124	118	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	94	95	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	94	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	96	98	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	96	92	80-120	4	30
Bromoform	1	U	1.	5	ug/l	85	84	61-120	2	30
Bromomethane	1	U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3	U	3.	10	ug/l	94	94	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	99	98	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	94	92	78-120	2	30
tert-Butylbenzene	1	U	1.	5	ug/l	93	93	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	89	89	75-123	0	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	88	91	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	88	90	56-129	2	30
Chloroform	0.8	U	0.8	5	ug/l	95	95	77-122	0	30
Chloromethane	1	U	1.	5	ug/l	95	94	60-129	0	30
2-Chlorotoluene	1	U	1.	5	ug/l	97	96	80-120	1	30
4-Chlorotoluene	1	U	1.	5	ug/l	98	97	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	74	82	38-136	10	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	86	86	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	92	90	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	96	99	80-120	3	30
Dibromomethane	1	U	1.	5	ug/l	92	92	80-120	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	97	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	81	83	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	92	92	79-120	0	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	98	97	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	83	82	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	91	91	80-120	0	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	89	88	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	94	93	78-120	1	30
1,3-Dichloropropane	1	U	1.	5	ug/l	96	95	80-120	0	30
2,2-Dichloropropane	1	U	1.	5	ug/l	92	91	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	88	88	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	91	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	89	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	97	96	79-120	1	30
Freon 113	2	U	2.	10	ug/l	81	81	69-128	0	30
Freon 133a	2	U	2.	5	ug/l	97	105	77-120	8	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	85	58-120	1	30
2-Hexanone	3	U	3.	10	ug/l	87	88	65-136	1	30
Isopropylbenzene	1	U	1.	5	ug/l	97	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	89	90	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	84	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	90	91	80-120	1	30
n-Propylbenzene	1	U	1.	5	ug/l	98	96	80-120	1	30
Styrene	1	U	1.	5	ug/l	95	94	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	93	80-120	3	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	99	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	92	91	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	97	95	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	85	85	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	91	92	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	94	93	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	98	96	80-120	2	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	96	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	95	94	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	91	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	96	95	80-120	1	30
Batch number: 11171SLA026	Sample number(s): 6313367-6313375									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	78		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	86		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 11171SLB026	Sample number(s): 6313367-6313375									
Aniline	170 U		170.	500	ug/kg	78		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	75		15-121		
Benzoic acid	170 U		170.	500	ug/kg	98		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	88		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	90		79-117		
Carbazole	17	U	17.	170	ug/kg	91		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	70		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	81		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	86		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	91		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	73		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	88		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	89		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	92		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	93		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	99		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	89		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		68-105		
Isophorone	17	U	17.	170	ug/kg	90		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	85		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	68		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	92		81-114		
4-Nitrophenol	170		170.	500	ug/kg	81		56-118		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	U 17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170		170.	500	ug/kg	80		51-117		
Phenol	U 17	U	17.	170	ug/kg	91		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	91		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11171SLF026	Sample number(s): 6313367-6313370,6313375									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	94		70-130		
Batch number: 11165A34A	Sample number(s): 6313367-6313370,6313375									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	77	67-119	4	30
Batch number: 11172B20A	Sample number(s): 6313376									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111640008A	Sample number(s): 6313367-6313370,6313375									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	117		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	103	101	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	102	100	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	120		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	114		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	118		80-120		
HMX	100		100.	300	ug/kg	103		74-130		
Nitrobenzene	U 40	U	40.	120	ug/kg	115		80-120		
Nitroglycerin	800		800.	2,400	ug/kg	88		80-120		
2-Nitrotoluene	U 80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	120		73-127		
4-Nitrotoluene	U 80	U	80.	120	ug/kg	112		80-120		
PETN	800		800.	2,400	ug/kg	123*		80-120		
RDX	U 50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	102		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
Batch number: 111660002A	Sample number(s): 6313367-6313370,6313375									
25a Formaldehyde 8315A	600		600.	1,500	ug/kg	96		80-126		
Batch number: 111660019A	U Sample number(s): 6313368									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111670028A	Sample number(s): 6313367-6313375									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	81	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111710009A	Sample number(s): 6313367-6313370,6313375									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	94		69-132		
EFH (C30 - C40)	2.2		0.40	1.2	mg/kg	91		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		54-107		
Batch number: 111650003A	Sample number(s): 6313367-6313370,6313375									
Diethylene glycol	5.0	U	5.0	10	mg/kg	90		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	90		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Batch number: 111650034A	Sample number(s): 6313367-6313370,6313375									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 111660005A	Sample number(s): 6313367-6313370,6313375									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
Batch number: 111681026001A	Sample number(s): 6313367-6313375									
Antimony	0.0740	U	0.0740	0.200	mg/kg	137		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		86-111		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	109		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	115		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	111		82-118		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	106		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	107		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	107		81-112		
Batch number: 111681026001B	Sample number(s): 6313367-6313375									
Selenium	0.0580	U	0.0580	0.400	mg/kg	107		83-111		
Batch number: 111681026001C	Sample number(s): 6313367-6313375									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	121		78-122		
Batch number: 111681026001D	Sample number(s): 6313367-6313375									
Barium	0.106	U	0.106	0.400	mg/kg	105		81-111		
Batch number: 111685708002	Sample number(s): 6313367-6313375									
Aluminum	5.85	J	5.76	19.0	mg/kg	90		61-110		
Boron	0.868	J	0.343	4.76	mg/kg	91		78-110		
Calcium	14.7	J	2.38	19.0	mg/kg	98		88-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	3.86	J	2.49	19.0	mg/kg	84		61-110		
Lithium	0.59	U	0.59	1.9	mg/kg	97		80-120		
Magnesium	0.630	J	0.419	9.52	mg/kg	94		82-110		
Manganese	0.0343	U	0.0343	0.476	mg/kg	94		89-112		
Phosphorus	1.54	J	0.333	9.52	mg/kg	99		80-120		
Potassium	10.8	U	10.8	47.6	mg/kg	96		78-110		
Sodium	5.67	U	5.67	95.2	mg/kg	94		87-110		
Strontium	0.0819	J	0.0238	0.476	mg/kg	94		86-110		
Tin	1.52	J	0.305	9.52	mg/kg	94		90-114		
Zirconium	0.438	U	0.438	4.76	mg/kg	96		80-120		
Batch number: 111685711003	Sample number(s): 6313367-6313375									
Mercury	0.0065	U	0.0065	0.0923	mg/kg	107		88-123		
Batch number: 111725708005	Sample number(s): 6313367-6313375									
Titanium	0.0710	U	0.0710	1.00	mg/kg	85		80-120		
Batch number: 111731026001A	Sample number(s): 6313367-6313375									
Lead	0.0102	U	0.0102	0.200	mg/kg	97		83-110		
Batch number: 11166243201A	Sample number(s): 6313367-6313375									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11168102201B	Sample number(s): 6313367-6313370,6313375									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11172621202A	Sample number(s): 6313367-6313375									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	99		90-110		
Batch number: 11174621201A	Sample number(s): 6313367-6313375									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11167039401A	Sample number(s): 6313367-6313370									
18a pH by 9045C						100		95-105		
Batch number: 11167039401B	Sample number(s): 6313371-6313375									
18a pH by 9045C						100		95-105		
Batch number: 11166162401B	Sample number(s): 6313371-6313374									
Moisture Content by 160.3						100		80-120		
Batch number: 11174162403B	Sample number(s): 6313367-6313370,6313375									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11171SLA026	Sample number(s): 6313367-6313375 UNSPK: P315633								
Acenaphthene	81	80	63-105	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	77	76	67-114	1	30				
Anthracene	88	85	60-122	3	30				
Benzo(a)anthracene	94	93	59-128	2	30				
Benzo(a)pyrene	92	91	45-138	1	30				
Benzo(b)fluoranthene	94	95	43-155	1	30				
Benzo(g,h,i)perylene	89	88	33-141	2	30				
Benzo(k)fluoranthene	94	91	42-144	3	30				
Butylbenzylphthalate	87	88	57-173	1	30				
Di-n-butylphthalate	92	89	65-148	2	30				
Chrysene	90	89	48-134	2	30				
Dibenz(a,h)anthracene	96	101	22-133	4	30				
Diethylphthalate	92	90	70-136	2	30				
Dimethylphthalate	85	84	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	114	108	39-167	6	30				
Fluoranthene	98	95	26-166	3	30				
Fluorene	82	81	66-122	1	30				
Indeno(1,2,3-cd)pyrene	105	102	21-143	3	30				
1-Methylnaphthalene	90	88	72-123	1	30				
2-Methylnaphthalene	81	79	64-103	2	30				
Naphthalene	81	83	61-102	3	30				
N-Nitrosodimethylamine	86	87	48-113	1	30				
Di-n-octylphthalate	101	99	40-192	2	30				
Phenanthrene	85	83	12-165	2	30				
Pyrene	80	80	15-153	1	30				
Batch number: 11171SLB026	Sample number(s): 6313367-6313375 UNSPK: 6313367								
Aniline	72	58	35-95	20	30				
Benzidine	55	41	35-141	29	30				
Benzoic acid	76	74	10-173	2	30				
Benzyl alcohol	90	89	67-115	1	30				
4-Bromophenyl-phenylether	88	93	67-129	6	30				
Carbazole	87	91	64-120	4	30				
4-Chloro-3-methylphenol	91	89	76-110	3	30				
4-Chloroaniline	66	38	23-95	54*	30				
bis(2-Chloroethoxy)methane	89	89	75-104	1	30				
bis(2-Chloroethyl)ether	87	88	60-116	1	30				
bis(2-Chloroisopropyl)ether	82	84	55-142	2	30				
2-Chloronaphthalene	74	99	50-141	29	30				
2-Chlorophenol	89	90	73-121	1	30				
4-Chlorophenyl-phenylether	88	89	80-109	2	30				
Dibenzofuran	91	92	71-112	1	30				
1,2-Dichlorobenzene	78	84	66-108	7	30				
1,3-Dichlorobenzene	75	82	63-109	8	30				
1,4-Dichlorobenzene	76	80	70-100	5	30				
3,3'-Dichlorobenzidine	73	67	16-119	10	30				
2,4-Dichlorophenol	91	92	78-117	2	30				
2,4-Dimethylphenol	93	94	78-110	1	30				
3,5-Dimethylphenol	96	96	70-130	0	30				
4,6-Dinitro-2-methylphenol	72	81	24-116	12	30				
2,4-Dinitrophenol	66	70	20-143	6	30				
2,4-Dinitrotoluene	88	90	73-113	2	30				
2,6-Dinitrotoluene	88	94	69-123	7	30				
1,2-Diphenylhydrazine	98	104	71-129	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Ethylhexyl)phthalate	104	110	63-122	5	30				
Hexachlorobenzene	91	94	77-114	3	30				
Hexachlorobutadiene	82	90	62-120	9	30				
Hexachlorocyclopentadiene	72	79	10-153	9	30				
Hexachloroethane	77	82	57-109	6	30				
Isophorone	89	91	73-102	2	30				
2-Methylphenol	90	87	75-111	3	30				
4-Methylphenol	87	80	71-111	8	30				
2-Nitroaniline	91	94	67-125	4	30				
3-Nitroaniline	86	84	59-122	3	30				
4-Nitroaniline	65	60	52-112	8	30				
Nitrobenzene	87	93	72-106	8	30				
2-Nitrophenol	86	93	74-115	8	30				
4-Nitrophenol	82	86	54-113	4	30				
N-Nitroso-di-n-propylamine	87	85	60-116	3	30				
N-Nitrosodiphenylamine	93	97	86-145	4	30				
Pentachlorophenol	76	84	28-127	11	30				
Phenol	90	87	58-126	4	30				
1,2,4-Trichlorobenzene	87	92	72-115	5	30				
2,4,5-Trichlorophenol	90	92	78-109	1	30				
2,4,6-Trichlorophenol	92	96	77-115	4	30				
Batch number: 11171SLF026	Sample number(s): 6313367-6313370,6313375 UNSPK: 6313367								
N-Nitrosodimethylamine	87	78	70-130	10	30				
Batch number: 111640008A	Sample number(s): 6313367-6313370,6313375 UNSPK: P310775								
4-Amino-2,6-Dinitrotoluene	97	97	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	97	97	80-137	1	50				
1,3-Dinitrobenzene	100	104	38-166	4	50				
2,4-Dinitrotoluene	94	96	80-131	3	50				
2,6-Dinitrotoluene	97	98	80-127	2	50				
HMX	83	81	63-128	2	50				
Nitrobenzene	97	100	80-125	3	50				
Nitroglycerin	82	83	80-120	1	50				
2-Nitrotoluene	93	97	80-122	4	50				
3-Nitrotoluene	99	103	72-119	4	50				
4-Nitrotoluene	93	96	80-125	4	50				
PETN	104	103	80-121	2	50				
RDX	79	82	75-129	3	50				
Tetryl	66	57	55-174	14	50				
1,3,5-Trinitrobenzene	83	76*	82-126	8	50				
2,4,6-Trinitrotoluene	96	97	82-130	0	50				
Batch number: 111660002A	Sample number(s): 6313367-6313370,6313375 UNSPK: P312169								
25a Formaldehyde 8315A	97	97	80-120	2	50				
Batch number: 111660019A	Sample number(s): 6313368 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111670028A	Sample number(s): 6313367-6313375 UNSPK: P315633								
PCB-1016	87	89	29-146	2	50				
PCB-1260	85	95	39-149	10	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111710009A	Sample number(s): 6313367-6313370,6313375 UNSPK: P312169								
EFH (C12-C14)	96	93	49-123	4	20				
EFH (C15-C20)	128*	122	49-123	5	20				
EFH (C21-C30)	201*	131*	49-123	23*	20				
EFH (C30 - C40)	337*	231*	49-123	17	20				
EFH (C8-C11)	99	93	49-123	6	20				
Batch number: 111650003A	Sample number(s): 6313367-6313370,6313375 UNSPK: 6313367								
Diethylene glycol	44*	4*	59-109	11	20				
Ethylene glycol	66	6*	63-107	17	20				
Propylene glycol	72	6*	63-107	19	20				
Batch number: 111650034A	Sample number(s): 6313367-6313370,6313375 UNSPK: P314464								
Ethanol	78	79	48-130	2	20				
Isopropanol	76	78	12-149	2	20				
Methanol	79	82	43-138	3	20				
Batch number: 111660005A	Sample number(s): 6313367-6313370,6313375 UNSPK: P310775								
m-Terphenyl	74*	82	75-125	10	20				
o-Terphenyl	85	93	75-125	9	20				
p-Terphenyl	85	92	75-125	8	20				
Batch number: 111681026001A	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Antimony	83	85	75-125	2	20	0.217	0.277	24* (1)	20
Arsenic	104	153*	75-125	13	20	4.78	5.50	14	20
Beryllium	97	133*	75-125	17	20	0.722	0.843	15	20
Cadmium	95	113	75-125	12	20	0.393	0.336	16 (1)	20
Chromium	35*	84	75-125	12	20	33.8	31.4	7	20
Cobalt	108	124	75-125	12	20	9.63	11.3	16	20
Copper	105	143*	75-125	13	20	15.4	16.8	9	20
Nickel	112	153*	75-125	12	20	20.0	22.7	13	20
Silver	106	116	75-125	9	20	0.0543 J	0.0598 J	10 (1)	20
Thallium	90	110	75-125	10	20	0.428	0.392	9 (1)	20
Vanadium	29 (2)	119 (2)	75-125	13	20	57.2	55.1	4	20
Zinc	112 (2)	200 (2)	75-125	11	20	62.2	67.7	9	20
Batch number: 111681026001B	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Selenium	98	112	75-125	12	20	0.181 J	0.145 J	22* (1)	20
Batch number: 111681026001C	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Molybdenum	106	121	75-125	13	20	0.368	0.422	14 (1)	20
Batch number: 111681026001D	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Barium	177 (2)	397 (2)	75-125	13	20	133	149	11	20
Batch number: 111685708002	Sample number(s): 6313367-6313375 UNSPK: P312169 BKG: P312169								
Aluminum	2397 (2)	1692 (2)	75-125	5	20	25,300	20,300	22*	20
Boron	91	92	84-115	1	20	6.68	5.22	25* (1)	20
Calcium	62 (2)	288 (2)	75-125	13	20	5,840	5,720	2	20
Iron	12445 (2)	13631 (2)	75-125	2	20	29,000	31,500	8	20
Lithium	99	100	82-114	1	20	20.3	17.5	15	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	297 (2)	386 (2)	75-125	3	20	5,580	5,050	10	20
Manganese	453 (2)	175 (2)	75-125	26*	20	371	271	31*	20
Phosphorus	108	161*	75-125	14	20	235	217	8	20
Potassium	146*	129*	75-125	4	20	3,370	2,900	15	20
Sodium	93	94	75-125	0	20	269	240	12 (1)	20
Strontium	93	94	75-115	1	20	30.0	26.4	13	20
Tin	84	86	80-110	0	20	2.39 J	2.25 J	6 (1)	20
Zirconium	93	93	75-125	1	20	3.03 J	2.53 J	18 (1)	20
Batch number: 111685711003	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
Mercury	84	86	65-135	3	20	0.0068 U	0.0065 U	0 (1)	20
Batch number: 111725708005	Sample number(s): 6313367-6313375 UNSPK: P312170 BKG: P312170								
Titanium	206 (2)	284 (2)	75-125	7	20	985	1,130	14	20
Batch number: 111731026001A	Sample number(s): 6313367-6313375 UNSPK: P312169 BKG: P312169								
Lead	235 (2)	235 (2)	75-125	0	20	8.02	8.29	3	20
Batch number: 11166243201A	Sample number(s): 6313367-6313375 UNSPK: 6313375 BKG: 6313375								
3a Cr VI by EPA 7199	90		75-125			0.56 J	0.83 J	38* (1)	20
Batch number: 11168102201B	Sample number(s): 6313367-6313370,6313375 UNSPK: P312174 BKG: P312174								
17a Cyanide by 9012B	98		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11172621202A	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
11a Anions by 300.0 - Fluoride	75*		80-120			4.7	4.4	6 (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.1 J	1.5	29* (1)	20
Batch number: 11174621201A	Sample number(s): 6313367-6313375 UNSPK: 6313367 BKG: 6313367								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11167039401A	Sample number(s): 6313367-6313370 BKG: P312175								
18a pH by 9045C						8.16	8.20	0	3
Batch number: 11167039401B	Sample number(s): 6313371-6313375 BKG: 6313371								
18a pH by 9045C						8.09	8.07	0	3
Batch number: 11166162401B	Sample number(s): 6313371-6313374 BKG: 6313373								
Moisture Content by 160.3						15.6	14.9	5	20
Batch number: 11174162403B	Sample number(s): 6313367-6313370,6313375 BKG: 6313369								
Moisture Content by 160.3						15.3	15.0	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111661AA

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6313367	107	105	98	93
6313368	108	107	99	95
6313369	109	108	98	96
6313370	108	103	99	94
6313371	106	100	100	92
6313373	107	101	100	93
6313375	109	104	98	94
Blank	104	102	100	95
LCS	103	105	103	102
LCSD	103	107	103	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111641AA

	Toluene-d8
6313376	99
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111642AA

	Toluene-d8
6313367	97
6313368	97
6313369	96
6313370	97
6313371	97
6313373	97
6313375	97
Blank	97
LCS	97
LCSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6313376	104	101	100	96
Blank	105	101	100	98
LCS	104	100	101	102
LCSD	104	101	101	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11171SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

6313367	105	84	84
6313368	97	80	91
6313369	98	80	92
6313370	91	75	86
6313371	81	67	73
6313372	92	76	87
6313373	97	80	78
6313374	96	78	80
6313375	99	79	86
Blank	96	84	100
LCS	103	85	96
MS	99	81	88
MSD	100	81	87
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11171SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6313367	82	86	80	85	91	91
6313368	22*	22*	21*	22*	22*	20*
6313369	77	80	86	84	86	86
6313370	80	81	86	83	88	87
6313371	83	86	80	86	88	83
6313372	81	82	80	84	88	88
6313373	83	85	82	86	92	87
6313374	83	87	85	87	96	91
6313375	81	82	90	84	93	88
Blank	80	83	83	84	90	82
LCS	90	91	92	90	92	90
MS	93	89	91	88	92	92
MSD	88	89	91	91	93	92
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11171SLF026

	N-Nitrosodimethylamine-d6
6313367	101
6313368	87
6313369	93
6313370	92
6313375	95
Blank	124
LCS	111
MS	95
MSD	94
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11165A34A

	Trifluorotoluene-F

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

6313367	78
6313368	81
6313369	75
6313370	74
6313375	76
Blank	85
LCS	86
LCSD	89
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11172B20A

Trifluorotoluene-F

6313376	89
Blank	87
LCS	121
LCSD	128
Limits:	63-135

Analysis Name: 16a Energetics by 8330A
Batch number: 111640008A

2-Nitro-m-xylene

6313367	111
6313368	109
6313369	118
6313370	116
6313375	113
Blank	114
LCS	122
LCSD	107
MS	106
MSD	111
Limits:	80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111660002A

Butyraldehyde

6313367	102
6313368	111
6313369	103
6313370	106
6313375	98
Blank	107
LCS	109
MS	99
MSD	107
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

Batch number: 111670028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6313367	87	91
6313368	95	83
6313369	86	98
6313370	82	95
6313371	79	96
6313372	86	100
6313373	95	106
6313374	91	100
6313375	84	98
Blank	102	105
LCS	105	108
LCSD	98	115
MS	104	96
MSD	101	102
Limits:	53-139	45-120

Analysis Name: 21a Glycols by 8015B
Batch number: 111650003A

	Tetramethylene glycol
6313367	82
6313368	90
6313369	88
6313370	88
6313375	92
Blank	89
LCS	94
MS	89
MSD	87
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111650034A

	Acetone
6313367	75
6313368	74
6313369	76
6313370	75
6313375	76
Blank	93
LCS	91
MS	77
MSD	80
Limits:	42-138

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111660005A

	n-Triacontane-d62
6313367	93

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251033
Reported: 07/11/11 at 11:03 AM

Surrogate Quality Control

6313368	93
6313369	93
6313370	102
6313375	108
Blank	92
LCS	94
MS	90
MSD	86
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111710009A

	Chlorobenzene	Orthoterphenyl
6313367	48	68
6313368	70	87
6313369	66	76
6313370	61	78
6313375	69	82
Blank	86	89
LCS	92	94
MS	78	96
MSD	78	90
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#1303 Cap#1251033 Sample#6313367-76

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-041-SA5DN-SB-4.5	06.10.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-4.0-5.0	06.10.11	1100	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-041-SA5DN-SB-9.5	06.10.11	1045	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-9.0-10.0	06.10.11	1050	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-4.5	06.10.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-4.0-5.0	06.10.11	1150	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-9.5	06.10.11	1135	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-9.0-10.0	06.10.11	1140	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-048-SA5DN-SB-4.5	06.10.11	1505	SOIL	NONE	4-Encores										X	X											
SL-048-SA5DN-SB-4.0-5.0	06.10.11	1510	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-048-SA5DN-SB-11.5-12.5	06.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-4.5	06.10.11	1405	SOIL	NONE	4-Encores										X	X											
SL-049-SA5DN-SB-4.0-5.0	06.10.11	1410	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-15.5-16.5	06.10.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/10/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/11/11 0915	8754 3340 0585,0596	

acct# 13013 Cap# 1251033 Sample# 6313367-76

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Vidal Cortez																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-111-SA8N-SB-3.5	06.10.11	1235	SOIL	NONE	5-Encores										X	X	X										
SL-111-SA8N-SB-3.0-4.0	06.10.11	1240	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-061011	06.10.11	0800	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (*Signature*)	Date/Time 06/10/2011 / 1700		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3340 0585,0596																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/11/2011
Group Number: 1251034
SDG: DX101
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-041-SA5DN-SB-4.0-5.0 Soil	6313377
SL-041-SA5DN-SB-9.0-10.0 Soil	6313378
SL-045-SA5DN-SB-4.0-5.0 Soil	6313379
SL-045-SA5DN-SB-9.0-10.0 Soil	6313380
SL-048-SA5DN-SB-4.0-5.0 Soil	6313381
SL-048-SA5DN-SB-11.5-12.5 Soil	6313382
SL-049-SA5DN-SB-4.0-5.0 Soil	6313383
SL-049-SA5DN-SB-15.5-16.5 Soil	6313384
SL-111-SA8N-SB-3.0-4.0 Soil	6313385

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0278	U	0.0278	1.19	1
11031	12378-PeCDD	40321-76-4	0.185	JB	0.0340	5.93	1
11031	123478-HxCDD	39227-28-6	0.173	J	0.0358	5.93	1
11031	123678-HxCDD	57653-85-7	0.686	JB	0.0360	5.93	1
11031	123789-HxCDD	19408-74-3	0.778	JB	0.0369	5.93	1
11031	1234678-HpCDD	35822-46-9	12.5	B	0.0566	5.93	1
11031	OCDD	3268-87-9	157	B	0.0546	11.9	1
11031	2378-TCDF	51207-31-9	0.113	JQ	0.0604	1.19	1
11031	12378-PeCDF	57117-41-6	0.570	JB	0.0309	5.93	1
11031	23478-PeCDF	57117-31-4	0.572	JB	0.0315	5.93	1
11031	123478-HxCDF	70648-26-9	0.257	JB	0.0298	5.93	1
11031	123678-HxCDF	57117-44-9	0.168	JB	0.0259	5.93	1
11031	123789-HxCDF	72918-21-9	0.801	JB	0.0373	5.93	1
11031	234678-HxCDF	60851-34-5	0.174	JB	0.0288	5.93	1
11031	1234678-HpCDF	67562-39-4	0.988	JB	0.0175	5.93	1
11031	1234789-HpCDF	55673-89-7	0.129	JBQ	0.0294	5.93	1
11031	OCDF	39001-02-0	2.66	JB	0.0453	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-041-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313377
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:00

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-06 SDG#: DX101-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 19:49	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0998	JBQ	0.0271	1.10	1
11031	12378-PeCDD	40321-76-4	0.393	JB	0.0298	5.48	1
11031	123478-HxCDD	39227-28-6	0.228	J	0.0327	5.48	1
11031	123678-HxCDD	57653-85-7	0.564	JB	0.0338	5.48	1
11031	123789-HxCDD	19408-74-3	0.324	JB	0.0333	5.48	1
11031	1234678-HpCDD	35822-46-9	26.2	B	0.0666	5.48	1
11031	OCDD	3268-87-9	275	B	0.0712	11.0	1
11031	2378-TCDF	51207-31-9	0.154	J	0.0364	1.10	1
11031	12378-PeCDF	57117-41-6	0.462	JB	0.0186	5.48	1
11031	23478-PeCDF	57117-31-4	0.412	JB	0.0179	5.48	1
11031	123478-HxCDF	70648-26-9	0.283	JB	0.0250	5.48	1
11031	123678-HxCDF	57117-44-9	0.264	JB	0.0221	5.48	1
11031	123789-HxCDF	72918-21-9	0.267	JB	0.0303	5.48	1
11031	234678-HxCDF	60851-34-5	0.228	JB	0.0242	5.48	1
11031	1234678-HpCDF	67562-39-4	0.915	JB	0.0177	5.48	1
11031	1234789-HpCDF	55673-89-7	0.165	JB	0.0314	5.48	1
11031	OCDF	39001-02-0	2.13	JB	0.0358	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-041-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313378
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 10:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-07 SDG#: DX101-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 20:46	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0874	JBQ	0.0288	1.17	1
11031	12378-PeCDD	40321-76-4	0.535	JB	0.0268	5.83	1
11031	123478-HxCDD	39227-28-6	0.324	J	0.0277	5.83	1
11031	123678-HxCDD	57653-85-7	0.329	JB	0.0274	5.83	1
11031	123789-HxCDD	19408-74-3	0.329	JBQ	0.0255	5.83	1
11031	1234678-HpCDD	35822-46-9	0.737	JB	0.0325	5.83	1
11031	OCDD	3268-87-9	2.98	JB	0.0260	11.7	1
11031	2378-TCDF	51207-31-9	0.0636	JQ	0.0303	1.17	1
11031	12378-PeCDF	57117-41-6	0.504	JB	0.0156	5.83	1
11031	23478-PeCDF	57117-31-4	0.541	JB	0.0165	5.83	1
11031	123478-HxCDF	70648-26-9	0.421	JB	0.0222	5.83	1
11031	123678-HxCDF	57117-44-9	0.384	JB	0.0174	5.83	1
11031	123789-HxCDF	72918-21-9	0.343	JBQ	0.0261	5.83	1
11031	234678-HxCDF	60851-34-5	0.313	JB	0.0211	5.83	1
11031	1234678-HpCDF	67562-39-4	0.273	JB	0.0105	5.83	1
11031	1234789-HpCDF	55673-89-7	0.125	JB	0.0197	5.83	1
11031	OCDF	39001-02-0	0.321	JBQ	0.0362	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313379
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:50

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-08 SDG#: DX101-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/10/2011 21:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0458 JBQ	0.0319	1.14	1
11031	12378-PeCDD	40321-76-4	0.105 JB	0.0257	5.70	1
11031	123478-HxCDD	39227-28-6	0.100 JQ	0.0250	5.70	1
11031	123678-HxCDD	57653-85-7	0.117 JB	0.0245	5.70	1
11031	123789-HxCDD	19408-74-3	0.124 JBQ	0.0237	5.70	1
11031	1234678-HpCDD	35822-46-9	0.854 JB	0.0365	5.70	1
11031	OCDD	3268-87-9	5.29 JB	0.0249	11.4	1
11031	2378-TCDF	51207-31-9	0.0627 J	0.0267	1.14	1
11031	12378-PeCDF	57117-41-6	0.172 JBQ	0.0128	5.70	1
11031	23478-PeCDF	57117-31-4	0.177 JB	0.0135	5.70	1
11031	123478-HxCDF	70648-26-9	0.133 JBQ	0.0184	5.70	1
11031	123678-HxCDF	57117-44-9	0.124 JB	0.0140	5.70	1
11031	123789-HxCDF	72918-21-9	0.0953 JBQ	0.0224	5.70	1
11031	234678-HxCDF	60851-34-5	0.147 JB	0.0166	5.70	1
11031	1234678-HpCDF	67562-39-4	0.206 JB	0.0112	5.70	1
11031	1234789-HpCDF	55673-89-7	0.139 JBQ	0.0213	5.70	1
11031	OCDF	39001-02-0	0.410 JBQ	0.0435	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-045-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA5DN-SB-9.0-10.0

LLI Sample # SW 6313380
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 11:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-09 SDG#: DX101-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 01:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

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Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0304 U	0.0304	1.16	1
11031	12378-PeCDD	40321-76-4	0.0583 JBQ	0.0267	5.81	1
11031	123478-HxCDD	39227-28-6	0.0421 J	0.0241	5.81	1
11031	123678-HxCDD	57653-85-7	0.187 JBQ	0.0235	5.81	1
11031	123789-HxCDD	19408-74-3	0.284 JB	0.0244	5.81	1
11031	1234678-HpCDD	35822-46-9	1.19 JB	0.0321	5.81	1
11031	OCDD	3268-87-9	7.46 JB	0.0269	11.6	1
11031	2378-TCDF	51207-31-9	0.0275 U	0.0275	1.16	1
11031	12378-PeCDF	57117-41-6	0.0841 JBQ	0.0139	5.81	1
11031	23478-PeCDF	57117-31-4	0.0964 JBQ	0.0142	5.81	1
11031	123478-HxCDF	70648-26-9	0.0760 JB	0.0213	5.81	1
11031	123678-HxCDF	57117-44-9	0.0792 JB	0.0171	5.81	1
11031	123789-HxCDF	72918-21-9	0.390 JBQ	0.0262	5.81	1
11031	234678-HxCDF	60851-34-5	0.0983 JB	0.0189	5.81	1
11031	1234678-HpCDF	67562-39-4	0.250 JB	0.0105	5.81	1
11031	1234789-HpCDF	55673-89-7	0.0985 JBQ	0.0207	5.81	1
11031	OCDF	39001-02-0	0.522 JB	0.0430	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-048-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313381
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-10 SDG#: DX101-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 02:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0277 U	0.0277	1.11	1
11031	12378-PeCDD	40321-76-4	0.0423 JB	0.0268	5.56	1
11031	123478-HxCDD	39227-28-6	0.0208 JQ	0.0189	5.56	1
11031	123678-HxCDD	57653-85-7	0.0428 JB	0.0191	5.56	1
11031	123789-HxCDD	19408-74-3	0.0575 JBQ	0.0185	5.56	1
11031	1234678-HpCDD	35822-46-9	0.473 JBQ	0.0287	5.56	1
11031	OCDD	3268-87-9	0.894 JBQ	0.0245	11.1	1
11031	2378-TCDF	51207-31-9	0.0236 U	0.0236	1.11	1
11031	12378-PeCDF	57117-41-6	0.0112 U	0.0112	5.56	1
11031	23478-PeCDF	57117-31-4	0.0480 JB	0.0122	5.56	1
11031	123478-HxCDF	70648-26-9	0.0294 JB	0.0125	5.56	1
11031	123678-HxCDF	57117-44-9	0.0186 JBQ	0.0102	5.56	1
11031	123789-HxCDF	72918-21-9	0.0499 JBQ	0.0131	5.56	1
11031	234678-HxCDF	60851-34-5	0.0553 JB	0.0117	5.56	1
11031	1234678-HpCDF	67562-39-4	0.0899 JB	0.00887	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0393 JBQ	0.0174	5.56	1
11031	OCDF	39001-02-0	0.200 JB	0.0380	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA5DN-SB-11.5-12.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA5DN-SB-11.5-12.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA5DN-SB-11.5-12.5

LLI Sample # SW 6313382
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 15:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-11 SDG#: DX101-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 03:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0276	U	0.0276	1.18	1
11031	12378-PeCDD	40321-76-4	0.0270	U	0.0270	5.89	1
11031	123478-HxCDD	39227-28-6	0.0376	JQ	0.0245	5.89	1
11031	123678-HxCDD	57653-85-7	0.228	JB	0.0250	5.89	1
11031	123789-HxCDD	19408-74-3	0.418	JB	0.0248	5.89	1
11031	1234678-HpCDD	35822-46-9	0.674	JB	0.0374	5.89	1
11031	OCDD	3268-87-9	3.21	JB	0.0251	11.8	1
11031	2378-TCDF	51207-31-9	0.0250	U	0.0250	1.18	1
11031	12378-PeCDF	57117-41-6	0.0736	JB	0.0134	5.89	1
11031	23478-PeCDF	57117-31-4	0.0580	JB	0.0146	5.89	1
11031	123478-HxCDF	70648-26-9	0.0481	JBQ	0.0179	5.89	1
11031	123678-HxCDF	57117-44-9	0.0368	JBQ	0.0135	5.89	1
11031	123789-HxCDF	72918-21-9	0.517	JB	0.0233	5.89	1
11031	234678-HxCDF	60851-34-5	0.0594	JBQ	0.0171	5.89	1
11031	1234678-HpCDF	67562-39-4	0.133	JB	0.0105	5.89	1
11031	1234789-HpCDF	55673-89-7	0.0464	JB	0.0236	5.89	1
11031	OCDF	39001-02-0	0.212	JBQ	0.0459	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-4.0-5.0

LLI Sample # SW 6313383
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:10

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-12 SDG#: DX101-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 04:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0296 JBQ	0.0265	1.13	1
11031	12378-PeCDD	40321-76-4	0.0226 U	0.0226	5.66	1
11031	123478-HxCDD	39227-28-6	0.0260 J	0.0190	5.66	1
11031	123678-HxCDD	57653-85-7	0.0529 JBQ	0.0192	5.66	1
11031	123789-HxCDD	19408-74-3	0.0524 JBQ	0.0188	5.66	1
11031	1234678-HpCDD	35822-46-9	0.926 JB	0.0318	5.66	1
11031	OCDD	3268-87-9	8.45 JB	0.0283	11.3	1
11031	2378-TCDF	51207-31-9	0.0231 U	0.0231	1.13	1
11031	12378-PeCDF	57117-41-6	0.0197 JBQ	0.0109	5.66	1
11031	23478-PeCDF	57117-31-4	0.0889 JB	0.0119	5.66	1
11031	123478-HxCDF	70648-26-9	0.0413 JB	0.0149	5.66	1
11031	123678-HxCDF	57117-44-9	0.0362 JBQ	0.0117	5.66	1
11031	123789-HxCDF	72918-21-9	0.0419 JBQ	0.0166	5.66	1
11031	234678-HxCDF	60851-34-5	0.0588 JB	0.0136	5.66	1
11031	1234678-HpCDF	67562-39-4	0.158 JB	0.00946	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0619 JB	0.0194	5.66	1
11031	OCDF	39001-02-0	0.310 JB	0.0383	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-049-SA5DN-SB-15.5-16.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA5DN-SB-15.5-16.5

LLI Sample # SW 6313384
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 14:20

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-13 SDG#: DX101-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 05:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11166162401B	06/15/2011 21:21	Scott W Freisher	1

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Analysis Report

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0265 U	0.0265	1.06	1
11031	12378-PeCDD	40321-76-4	0.139 JBQ	0.0254	5.29	1
11031	123478-HxCDD	39227-28-6	0.0523 JQ	0.0238	5.29	1
11031	123678-HxCDD	57653-85-7	0.214 JB	0.0240	5.29	1
11031	123789-HxCDD	19408-74-3	0.315 JB	0.0243	5.29	1
11031	1234678-HpCDD	35822-46-9	0.860 JB	0.0352	5.29	1
11031	OCDD	3268-87-9	5.17 JB	0.0241	10.6	1
11031	2378-TCDF	51207-31-9	0.0454 JQ	0.0230	1.06	1
11031	12378-PeCDF	57117-41-6	0.121 JB	0.0124	5.29	1
11031	23478-PeCDF	57117-31-4	0.150 JBQ	0.0130	5.29	1
11031	123478-HxCDF	70648-26-9	0.110 JB	0.0182	5.29	1
11031	123678-HxCDF	57117-44-9	0.0883 JB	0.0141	5.29	1
11031	123789-HxCDF	72918-21-9	0.217 JBQ	0.0216	5.29	1
11031	234678-HxCDF	60851-34-5	0.0818 JB	0.0171	5.29	1
11031	1234678-HpCDF	67562-39-4	0.162 JBQ	0.00975	5.29	1
11031	1234789-HpCDF	55673-89-7	0.0325 JB	0.0195	5.29	1
11031	OCDF	39001-02-0	0.241 JBQ	0.0391	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA8N-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA8N-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA8N-SB-3.0-4.0

LLI Sample # SW 6313385
LLI Group # 1251034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/10/2011 12:40

Submitted: 06/11/2011 09:15
Reported: 07/12/2011 21:56

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

01-14 SDG#: DX101-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 06:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162403B	06/23/2011 20:44	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251034
Reported: 07/12/11 at 09:56 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11166162401B	Sample number(s): 6313381-6313384								
Moisture Content by 160.3					100		80-120		
Batch number: 11174162403B	Sample number(s): 6313377-6313380,6313385								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11189001	Sample number(s): 6313377-6313385								
2378-TCDD	0.0484 J	0.0301	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0813 J	0.0259	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0201 U	0.0201	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0652 J	0.0198	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0708 J	0.0192	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.430 J	0.0268	5.00	ng/kg	90		70-140		
OCDD	1.02 J	0.0189	10.0	ng/kg	92		78-144		
2378-TCDF	0.0249 U	0.0249	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0348 J	0.0107	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0794 J	0.0117	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0625 J	0.0163	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0628 J	0.0125	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0946 J	0.0175	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0912 J	0.0141	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.145 J	0.0105	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0985 J	0.0187	5.00	ng/kg	93		78-138		
OCDF	0.388 J	0.0375	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11166162401B	Sample number(s): 6313381-6313384					BKG: P313373			
Moisture Content by 160.3						15.6	14.9	5	20
Batch number: 11174162403B	Sample number(s): 6313377-6313380,6313385					BKG: P313369			
Moisture Content by 160.3						15.3	15.0	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251034
Reported: 07/12/11 at 09:56 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11189001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6313377	77	71	67	75	69	65
6313378	74	71	69	77	70	66
6313379	77	74	70	88	72	69
6313380	70	71	63	82	68	61
6313381	72	72	66	79	70	61
6313382	66	67	64	76	67	68
6313383	74	70	64	83	68	59
6313384	70	69	64	78	67	63
6313385	70	68	63	79	67	63
Blank	67	69	65	81	71	66
OPR	67	67	61	77	64	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6313377	79	59	61	76	78	78
6313378	89	65	65	75	79	81
6313379	98	64	61	84	87	88
6313380	85	55	56	76	80	82
6313381	93	60	58	77	80	84
6313382	89	60	56	71	74	78
6313383	91	55	53	78	81	81
6313384	93	57	54	76	79	81
6313385	90	56	53	76	78	79
Blank	89	63	60	74	80	83
OPR	93	54	54	74	77	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6313377	76	78	76	75	78
6313378	79	83	82	73	79
6313379	88	89	86	70	88
6313380	79	80	77	66	81
6313381	80	83	81	68	81
6313382	77	81	77	64	77
6313383	81	80	77	68	84
6313384	79	81	78	68	81
6313385	77	81	77	68	80
Blank	82	83	79	64	83
OPR	78	83	80	61	78
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1251034 Sample#6313377-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-041-SA5DN-SB-4.5	06.10.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-4.0-5.0	06.10.11	1100	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-041-SA5DN-SB-9.5	06.10.11	1045	SOIL	NONE	5-Encores										X	X	X										
SL-041-SA5DN-SB-9.0-10.0	06.10.11	1050	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-4.5	06.10.11	1145	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-4.0-5.0	06.10.11	1150	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-045-SA5DN-SB-9.5	06.10.11	1135	SOIL	NONE	5-Encores										X	X	X										
SL-045-SA5DN-SB-9.0-10.0	06.10.11	1140	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-048-SA5DN-SB-4.5	06.10.11	1505	SOIL	NONE	4-Encores										X	X											
SL-048-SA5DN-SB-4.0-5.0	06.10.11	1510	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-048-SA5DN-SB-11.5-12.5	06.10.11	1520	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-4.5	06.10.11	1405	SOIL	NONE	4-Encores										X	X											
SL-049-SA5DN-SB-4.0-5.0	06.10.11	1410	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-049-SA5DN-SB-15.5-16.5	06.10.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/10/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/11/11 0715	8754 3340 0585,0596	

acct#13013 Cap#1251034 Sample#6313377-85

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/8471/7A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures: Vidal Cortes																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-111-SA8N-SB-3.5	06.10.11	1235	SOIL	NONE	5-Encores										X	X	X										
SL-111-SA8N-SB-3.0-4.0	06.10.11	1240	SOIL	NONE	3-16 oz jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	Hand Auger Sample-only 3 jars
TB-061011	06.10.11	0600	WATER	HCl	4-40 mL VOA VIALS										X	X	X										TRIP BLANK
Relinquished by: (Signature)	Date/Time 06/10/2011 / 1700		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3340 0585,0596																								

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/14/2011
Group Number: 1251242
SDG: DE179
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-042-SA5DN-SB-4.0-5.0 Soil	6314462
SL-042-SA5DN-SB-9.0-10.0 Soil	6314463
SL-043-SA5DN-SB-4.0-5.0 Soil	6314464
SL-043-SA5DN-SB-9.0-10.0 Soil	6314465
SL-046-SA5DN-SB-4.0-5.0 Soil	6314466
SL-046-SA5DN-SB-9.0-10.0 Soil	6314467
SL-047-SA5DN-SB-4.0-5.0 Soil	6314468
SL-047-SA5DN-SB-10.0-11.0 Soil	6314469
SL-054-SA5DN-SB-4.0-5.0 Soil	6314470
SL-054-SA5DN-SB-9.0-10.0 Soil	6314471
SL-202-SA5DN-SB-4.0-5.0 Soil	6314472
SL-202-SA5DN-SB-9.0-10.0 Soil	6314473
TB-061311 Water	6314474

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.7		6.7	8.0		0.85
06192	Benzene	71-43-2	0.10	U	0.10	4.0		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.85
06192	Methylene Chloride	75-09-2	8.5		0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.23	J	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.3	U	19.3	38.7		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	29	J	20	200		1
04688	Benzo(a)pyrene	50-32-8	22	J	20	200		1
04688	Benzo(b)fluoranthene	205-99-2	26	J	20	200		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Chrysene	218-01-9	34	J	20	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Fluoranthene	206-44-0	27	J	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Pyrene	129-00-0	30	J	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1

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Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	1.4	J	0.78	2.0		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1

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Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.87	J	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.60	J	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	6.4		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	16		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1

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Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,000		7.06	23.4		1
07914	Boron	7440-42-8	5.49	J	0.420	5.84		1
01650	Calcium	7440-70-2	14,700		2.92	23.4		1
01654	Iron	7439-89-6	35,400		15.2	117		5
01656	Lithium	7439-93-2	28.6		0.72	2.3		1
01657	Magnesium	7439-95-4	7,160		0.514	11.7		1
06958	Manganese	7439-96-5	415		0.0420	0.584		1
10145	Phosphorus	7723-14-0	239		0.409	11.7		1
01662	Potassium	7440-09-7	3,430		13.2	58.4		1
01667	Sodium	7440-23-5	514		6.95	117		1
07968	Strontium	7440-24-6	46.2		0.0292	0.584		1
06969	Tin	7440-31-5	3.76	J	0.374	11.7		1
06970	Titanium	7440-32-6	1,490		0.0829	1.17		1
10146	Zirconium	7440-67-7	5.81	J	0.537	5.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.408		0.0847	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.21		0.0916	0.458		2
06126	Barium	7440-39-3	136		0.121	0.458		2
06127	Beryllium	7440-41-7	1.06		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.195		0.0504	0.114		2
06131	Chromium	7440-47-3	42.5		0.137	0.458		2
06132	Cobalt	7440-48-4	11.1		0.0229	0.114		2
06133	Copper	7440-50-8	17.7		0.0916	0.458		2
06135	Lead	7439-92-1	10.5		0.0117	0.229		2
06138	Molybdenum	7439-98-7	0.466		0.0572	0.114		2
06139	Nickel	7440-02-0	22.7		0.114	0.458		2
06141	Selenium	7782-49-2	0.113	J	0.0664	0.458		2
06142	Silver	7440-22-4	0.0530	J	0.0163	0.114		2
06145	Thallium	7440-28-0	0.396		0.0343	0.114		2
06148	Vanadium	7440-62-2	77.9		0.0252	0.114		2
06149	Zinc	7440-66-6	68.3		0.641	3.43		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	U	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.1		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.94	1.8		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.24	1.2		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 05:38	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 13:56	Jason M Long	20.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:09	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 02:06	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 17:19	Dale R Stoneroad	1

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42405 SDG#: DE179-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 01:26	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 16:03	Catherine J Schwarz	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:09	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 12:03	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 20:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 07:29	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 02:49	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 20:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 16:08	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 07:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 22:40	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 10:21	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 08:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314462
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42405 SDG#: DE179-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 05:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 14:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 14:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/23/2011 22:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243202A	06/16/2011 12:09	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:25	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7		6.4	7.6		0.87
06192	Benzene	71-43-2	0.1	U	0.1	3.8		0.87
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8		0.87
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.8		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8		0.87
06192	Bromoform	75-25-2	0.38	U	0.38	3.8		0.87
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6		0.87
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8		0.87
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8		0.87
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8		0.87
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.8		0.87
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8		0.87
06192	Chloroform	67-66-3	0.11	U	0.11	3.8		0.87
06192	Chloromethane	74-87-3	0.31	U	0.31	3.8		0.87
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8		0.87
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8		0.87
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8		0.87
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8		0.87
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8		0.87
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8		0.87
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8		0.87
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8		0.87
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8		0.87
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8		0.87
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8		0.87
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8		0.87
06192	Freon 113	76-13-1	0.10	U	0.10	3.8		0.87
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8		0.87
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8		0.87
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.8		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6		0.87
06192	Methylene Chloride	75-09-2	7.4		0.23	3.8		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8		0.87

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.8		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8		0.87
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8		0.87
06192	Toluene	108-88-3	0.17	J	0.08	3.8		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8		0.87
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8		0.87
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.8		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8		0.87
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8		0.87
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8		0.87
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.76
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182	U	182	365		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.92	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.0		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	1.7	J	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	1.3	J	0.73	1.8		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.24
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.59	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.84	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		6.43	21.2		1
07914	Boron	7440-42-8	2.44	J	0.382	5.31		1
01650	Calcium	7440-70-2	5,450		2.66	21.2		1
01654	Iron	7439-89-6	12,500		2.77	21.2		1
01656	Lithium	7439-93-2	8.5		0.66	2.1		1
01657	Magnesium	7439-95-4	2,480		0.467	10.6		1
06958	Manganese	7439-96-5	231		0.0382	0.531		1
10145	Phosphorus	7723-14-0	345		0.372	10.6		1
01662	Potassium	7440-09-7	1,380		12.0	53.1		1
01667	Sodium	7440-23-5	173		6.32	106		1
07968	Strontium	7440-24-6	21.9		0.0266	0.531		1
06969	Tin	7440-31-5	2.11	J	0.340	10.6		1
06970	Titanium	7440-32-6	670		0.0754	1.06		1
10146	Zirconium	7440-67-7	3.75	J	0.489	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0786	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.83		0.0850	0.425		2
06126	Barium	7440-39-3	78.0		0.113	0.425		2
06127	Beryllium	7440-41-7	0.537		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.199		0.0467	0.106		2
06131	Chromium	7440-47-3	27.4		0.127	0.425		2
06132	Cobalt	7440-48-4	5.78		0.0212	0.106		2
06133	Copper	7440-50-8	9.40		0.0850	0.425		2
06135	Lead	7439-92-1	5.73		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.698		0.0531	0.106		2
06139	Nickel	7440-02-0	14.5		0.106	0.425		2
06141	Selenium	7782-49-2	0.0667	J	0.0616	0.425		2
06142	Silver	7440-22-4	0.0246	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.188		0.0319	0.106		2
06148	Vanadium	7440-62-2	41.7		0.0234	0.106		2
06149	Zinc	7440-66-6	43.2		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106		1

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.83		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-042-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 06:00	Holly Berry	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 14:15	Jason M Long	23.76
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:12	Christopher D Meeks	n.a.

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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42910 SDG#: DE179-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/08/2011 14:11	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 20:23	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 02:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 16:39	Catherine J Schwarz	22.24
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:12	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 12:46	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 21:30	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:42	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 07:48	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 00:43	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 20:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 16:21	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/21/2011 21:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1

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Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314463
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

42910 SDG#: DE179-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 10:47	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 08:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 05:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 15:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/23/2011 23:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 12:26	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:28	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314464
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43405 SDG#: DE179-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9	U	6.9	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	8.7		0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

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Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314464
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

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14420 Albemarle Point Place
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43405 SDG#: DE179-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.23	J	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.29
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314464
LLI Group # 1251242
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43405 SDG#: DE179-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	19	380		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.93	J	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.79	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1

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SL-043-SA5DN-SB-4.0-5.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.89	J	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.37
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1

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Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	920	U	920	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.74	J	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.91	U	0.91	2.7		2
10199	EFH (C15-C20)	n.a.	1.6	J	0.91	2.7		2
10199	EFH (C21-C30)	n.a.	29		0.91	2.7		2
10199	EFH (C30 - C40)	n.a.	46		0.91	2.7		2
10199	EFH (C8-C11)	n.a.	0.91	U	0.91	2.7		2
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314464
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43405 SDG#: DE179-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,700		6.86	22.7		1
07914	Boron	7440-42-8	4.75	J	0.408	5.67		1
01650	Calcium	7440-70-2	14,500		2.84	22.7		1
01654	Iron	7439-89-6	34,900		14.8	113		5
01656	Lithium	7439-93-2	28.0		0.70	2.3		1
01657	Magnesium	7439-95-4	7,030		0.499	11.3		1
06958	Manganese	7439-96-5	367		0.0408	0.567		1
10145	Phosphorus	7723-14-0	254		0.397	11.3		1
01662	Potassium	7440-09-7	3,410		12.8	56.7		1
01667	Sodium	7440-23-5	525		6.75	113		1
07968	Strontium	7440-24-6	45.7		0.0284	0.567		1
06969	Tin	7440-31-5	2.77	J	0.363	11.3		1
06970	Titanium	7440-32-6	1,400		0.0805	1.13		1
10146	Zirconium	7440-67-7	5.23	J	0.522	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.261		0.0848	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.59		0.0916	0.458		2
06126	Barium	7440-39-3	129		0.121	0.458		2
06127	Beryllium	7440-41-7	1.01		0.0183	0.115		2
06128	Cadmium	7440-43-9	0.212		0.0504	0.115		2
06131	Chromium	7440-47-3	38.1		0.137	0.458		2
06132	Cobalt	7440-48-4	11.1		0.0229	0.115		2
06133	Copper	7440-50-8	16.4		0.0916	0.458		2
06135	Lead	7439-92-1	10.2		0.0117	0.229		2
06138	Molybdenum	7439-98-7	0.416		0.0573	0.115		2
06139	Nickel	7440-02-0	22.6		0.115	0.458		2
06141	Selenium	7782-49-2	0.0667	J	0.0664	0.458		2
06142	Silver	7440-22-4	0.0480	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.341		0.0344	0.115		2
06148	Vanadium	7440-62-2	72.4		0.0252	0.115		2
06149	Zinc	7440-66-6	65.5		0.641	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.4		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.92	1.7		1

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Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314464
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43405 SDG#: DE179-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-043-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 06:22	Holly Berry	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 14:35	Jason M Long	21.29
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:16	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:16	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 02:43	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 20:49	Dale R Stoneroad	1

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Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314464
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43405 SDG#: DE179-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 03:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 17:15	Catherine J Schwarz	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:15	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 13:28	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 21:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 08:07	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 06:11	Heather E Williams	2
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 21:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 16:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 05:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 23:03	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 10:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 08:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/24/2011 00:41	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314464
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43405 SDG#: DE179-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 05:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 15:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 15:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/23/2011 23:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 13:35	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:29	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314465
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43910 SDG#: DE179-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.8		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.8		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.8		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.8		0.85
06192	Methylene Chloride	75-09-2	5.6		0.24	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314465
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43910 SDG#: DE179-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.19	J	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		21.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.0	U	19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314465
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43910 SDG#: DE179-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314465
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43910 SDG#: DE179-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	8.7	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.								
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.55
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1

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SL-043-SA5DN-SB-9.0-10.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	1.3	J	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.52	J	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1

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SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314465
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

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43910 SDG#: DE179-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,700		6.88	22.7		1
07914	Boron	7440-42-8	3.55	J	0.409	5.68		1
01650	Calcium	7440-70-2	5,530		2.84	22.7		1
01654	Iron	7439-89-6	33,200		14.8	114		5
01656	Lithium	7439-93-2	25.0		0.70	2.3		1
01657	Magnesium	7439-95-4	5,780		0.500	11.4		1
06958	Manganese	7439-96-5	337		0.0409	0.568		1
10145	Phosphorus	7723-14-0	274		0.398	11.4		1
01662	Potassium	7440-09-7	3,490		12.8	56.8		1
01667	Sodium	7440-23-5	370		6.76	114		1
07968	Strontium	7440-24-6	36.1		0.0284	0.568		1
06969	Tin	7440-31-5	3.09	J	0.364	11.4		1
06970	Titanium	7440-32-6	1,480		0.0807	1.14		1
10146	Zirconium	7440-67-7	5.15	J	0.523	5.68		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.251		0.0850	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.65		0.0918	0.459		2
06126	Barium	7440-39-3	141		0.122	0.459		2
06127	Beryllium	7440-41-7	1.08		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.171		0.0505	0.115		2
06131	Chromium	7440-47-3	47.5		0.138	0.459		2
06132	Cobalt	7440-48-4	8.59		0.0230	0.115		2
06133	Copper	7440-50-8	19.7		0.0918	0.459		2
06135	Lead	7439-92-1	10.8		0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.721		0.0574	0.115		2
06139	Nickel	7440-02-0	24.4		0.115	0.459		2
06141	Selenium	7782-49-2	0.0666	U	0.0666	0.459		2
06142	Silver	7440-22-4	0.0538	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.438		0.0344	0.115		2
06148	Vanadium	7440-62-2	80.6		0.0253	0.115		2
06149	Zinc	7440-66-6	75.1		0.643	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.9		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.92	1.7		1

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SL-043-SA5DN-SB-9.0-10.0

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LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43910 SDG#: DE179-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.22		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-043-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 06:45	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 14:56	Jason M Long	21.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:19	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 03:01	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 21:16	Dale R Stoneroad	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314465
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43910 SDG#: DE179-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 04:02	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 17:52	Catherine J Schwarz	21.55
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:18	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 14:11	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 21:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 08:25	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/22/2011 21:21	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 22:26	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 16:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/21/2011 22:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 23:07	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:03	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 08:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2

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Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314465
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

43910 SDG#: DE179-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 15:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 15:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/24/2011 00:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243202A	06/16/2011 13:40	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:30	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46405 SDG#: DE179-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.3		6.7	8.0		0.86
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.86
06192	Methylene Chloride	75-09-2	5.7		0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46405 SDG#: DE179-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.20	J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.56
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46405 SDG#: DE179-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1

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Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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46405 SDG#: DE179-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.2	J	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	14	J	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	J	0.2	1		20.76
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1

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SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
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46405 SDG#: DE179-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.5		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	9.1		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	14		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1

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SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46405 SDG#: DE179-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	36,000		6.86	22.7		1
07914	Boron	7440-42-8	5.60	J	0.408	5.67		1
01650	Calcium	7440-70-2	6,340		2.83	22.7		1
01654	Iron	7439-89-6	36,700		14.8	113		5
01656	Lithium	7439-93-2	32.1		0.70	2.3		1
01657	Magnesium	7439-95-4	6,750		0.499	11.3		1
06958	Manganese	7439-96-5	571		0.0408	0.567		1
10145	Phosphorus	7723-14-0	313		0.397	11.3		1
01662	Potassium	7440-09-7	3,880		12.8	56.7		1
01667	Sodium	7440-23-5	580		6.74	113		1
07968	Strontium	7440-24-6	39.7		0.0283	0.567		1
06969	Tin	7440-31-5	3.11	J	0.363	11.3		1
06970	Titanium	7440-32-6	1,700		0.0805	1.13		1
10146	Zirconium	7440-67-7	5.98		0.521	5.67		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.421		0.0823	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.43		0.0889	0.445		2
06126	Barium	7440-39-3	174		0.118	0.445		2
06127	Beryllium	7440-41-7	1.38		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.301		0.0489	0.111		2
06131	Chromium	7440-47-3	51.4		0.133	0.445		2
06132	Cobalt	7440-48-4	14.0		0.0222	0.111		2
06133	Copper	7440-50-8	22.1		0.0889	0.445		2
06135	Lead	7439-92-1	13.7		0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.663		0.0556	0.111		2
06139	Nickel	7440-02-0	29.7		0.111	0.445		2
06141	Selenium	7782-49-2	0.0665	J	0.0645	0.445		2
06142	Silver	7440-22-4	0.0992	J	0.0158	0.111		2
06145	Thallium	7440-28-0	0.429		0.0333	0.111		2
06148	Vanadium	7440-62-2	93.6		0.0245	0.111		2
06149	Zinc	7440-66-6	84.1		0.622	3.33		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0398	J	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.7		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.92	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
LLI Group # 1251242
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Project Name: SSFL Area IV Collocated Soil Sampling

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46405 SDG#: DE179-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.88	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.69		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-046-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 07:07	Holly Berry	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 15:16	Jason M Long	22.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:22	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 03:19	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 21:42	Dale R Stoneroad	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 04:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 12:59	Catherine J Schwarz	20.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 14:53	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 21:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 10:16	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 03:40	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 22:41	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 16:59	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/21/2011 22:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 23:11	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:07	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 08:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314466
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46405 SDG#: DE179-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 15:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 15:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/24/2011 00:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 13:57	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:32	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314467
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46910 SDG#: DE179-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.9
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.9
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.9
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.9
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.9
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.9
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.9
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.9
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.9
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.9
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.9
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.9
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.9
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.9
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.9
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.9
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.9
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.9
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.9
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.9
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.9
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.9
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.9
06192	Methylene Chloride	75-09-2	3.6	J	0.25	4.2		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.9

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Sample Description: SL-046-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314467
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46910 SDG#: DE179-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.9
06192	Toluene	108-88-3	0.18	J	0.08	4.2		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.9
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.9
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.9
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	92.0		19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-046-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314467
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46910 SDG#: DE179-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-046-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314467
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46910 SDG#: DE179-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.66
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314467
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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46910 SDG#: DE179-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.6		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	5.3		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1

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SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314467
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46910 SDG#: DE179-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,000		6.81	22.5		1
07914	Boron	7440-42-8	2.95	J	0.405	5.63		1
01650	Calcium	7440-70-2	6,680		2.82	22.5		1
01654	Iron	7439-89-6	34,800		14.7	113		5
01656	Lithium	7439-93-2	26.1		0.70	2.3		1
01657	Magnesium	7439-95-4	6,770		0.496	11.3		1
06958	Manganese	7439-96-5	281		0.0405	0.563		1
10145	Phosphorus	7723-14-0	198		0.394	11.3		1
01662	Potassium	7440-09-7	3,100		12.7	56.3		1
01667	Sodium	7440-23-5	621		6.70	113		1
07968	Strontium	7440-24-6	42.0		0.0282	0.563		1
06969	Tin	7440-31-5	2.90	J	0.360	11.3		1
06970	Titanium	7440-32-6	1,320		0.0800	1.13		1
10146	Zirconium	7440-67-7	5.01	J	0.518	5.63		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.469		0.0825	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.0		0.0892	0.446		2
06126	Barium	7440-39-3	146		0.296	1.12		5
06127	Beryllium	7440-41-7	1.45		0.0178	0.112		2
06128	Cadmium	7440-43-9	0.155		0.0491	0.112		2
06131	Chromium	7440-47-3	64.1		0.134	0.446		2
06132	Cobalt	7440-48-4	13.9		0.0223	0.112		2
06133	Copper	7440-50-8	25.9		0.0892	0.446		2
06135	Lead	7439-92-1	13.9		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.528		0.0558	0.112		2
06139	Nickel	7440-02-0	34.8		0.112	0.446		2
06141	Selenium	7782-49-2	0.0667	J	0.0647	0.446		2
06142	Silver	7440-22-4	0.0747	J	0.0158	0.112		2
06145	Thallium	7440-28-0	0.512		0.0335	0.112		2
06148	Vanadium	7440-62-2	115		0.0245	0.112		2
06149	Zinc	7440-66-6	92.8		0.625	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1

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SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314467
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

46910 SDG#: DE179-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.4		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-046-SA5DN-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011	07:30	Holly Berry	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011	15:36	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011	13:25	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011	13:41	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011	13:41	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011	13:25	Christopher D Meeks	n.a.

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46910 SDG#: DE179-06

Laboratory Sample Analysis Record

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11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 03:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 22:08	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 10:08	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 18:28	Catherine J Schwarz	20.66
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:25	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 15:35	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 22:08	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:48	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 09:58	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 01:59	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 22:56	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 17:12	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 06:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 23:15	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1

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46910 SDG#: DE179-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:11	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 15:05	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 16:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 16:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/24/2011 01:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 14:09	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:33	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039401B	06/16/2011 20:20	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35	U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.95
06192	Methylene Chloride	75-09-2	4.2	J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.3		0.95

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Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.21	J	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.95
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		21.63
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	187	U	187	374		10

This sample was extracted outside of the method required holding time due to a laboratory error.

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1

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Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1

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Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	1		21.33
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1

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Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.1		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	3.8		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,300		6.72	22.2		1
07914	Boron	7440-42-8	7.57		0.400	5.55		1
01650	Calcium	7440-70-2	6,560		2.77	22.2		1
01654	Iron	7439-89-6	35,300		14.5	111		5
01656	Lithium	7439-93-2	30.4		0.69	2.2		1
01657	Magnesium	7439-95-4	7,370		0.488	11.1		1
06958	Manganese	7439-96-5	793		0.0400	0.555		1
10145	Phosphorus	7723-14-0	397		0.388	11.1		1
01662	Potassium	7440-09-7	3,660		12.5	55.5		1
01667	Sodium	7440-23-5	685		6.60	111		1
07968	Strontium	7440-24-6	43.9		0.0277	0.555		1
06969	Tin	7440-31-5	3.01	J	0.355	11.1		1
06970	Titanium	7440-32-6	1,620		0.0788	1.11		1
10146	Zirconium	7440-67-7	6.21		0.511	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.496		0.0813	0.220		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.46		0.0879	0.440		2
06126	Barium	7440-39-3	161		0.117	0.440		2
06127	Beryllium	7440-41-7	1.24		0.0176	0.110		2
06128	Cadmium	7440-43-9	0.308		0.0484	0.110		2
06131	Chromium	7440-47-3	52.1		0.132	0.440		2
06132	Cobalt	7440-48-4	15.9		0.0220	0.110		2
06133	Copper	7440-50-8	21.4		0.0879	0.440		2
06135	Lead	7439-92-1	14.6		0.0112	0.220		2
06138	Molybdenum	7439-98-7	0.615		0.0550	0.110		2
06139	Nickel	7440-02-0	27.0		0.110	0.440		2
06141	Selenium	7782-49-2	0.0637	U	0.0637	0.440		2
06142	Silver	7440-22-4	0.0646	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.433		0.0330	0.110		2
06148	Vanadium	7440-62-2	100		0.0242	0.110		2
06149	Zinc	7440-66-6	76.2		0.615	3.30		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124	J	0.0076	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.4		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-047-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 07:52	Holly Berry	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 15:56	Jason M Long	21.63
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:29	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:41	Christopher D Meeks	n.a.

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Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:29	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11181SLA026	07/06/2011 23:03	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 22:35	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 10:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	2	11181SLA026	06/30/2011 13:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 13:37	Catherine J Schwarz	21.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:28	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 17:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 22:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 10:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 01:08	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 23:11	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 17:25	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/21/2011 23:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 23:27	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314468
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47405 SDG#: DE179-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:15	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 08:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 16:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 16:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/24/2011 01:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11166243202A	06/16/2011 14:15	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:36	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314469
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47101 SDG#: DE179-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.92
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.92
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.92
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.92
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.92
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.92
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.92
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.92
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.92
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.92
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.92
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.92
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.92
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.92
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.92
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.92
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.92
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.92
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.92
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.92
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.92
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.92
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.92
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.92
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.92
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.92
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.92
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.92
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.92
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.92
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.92
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.92
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.92
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.92
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.92
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.92
06192	Methylene Chloride	75-09-2	5.2		0.24	4.0		0.92
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.92

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Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314469
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47101 SDG#: DE179-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.92
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.92
06192	Toluene	108-88-3	0.21	J	0.08	4.0		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.92
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.92
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.92
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.92
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.92
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		24.8
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.7	U	17.7	35.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1

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SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314469
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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47101 SDG#: DE179-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1

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Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314469
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

47101 SDG#: DE179-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.9
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1

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SL-047-SA5DN-SB-10.0-11.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		6.30	20.8		1
07914	Boron	7440-42-8	0.375	U	0.375	5.20		1
01650	Calcium	7440-70-2	9,420		2.60	20.8		1
01654	Iron	7439-89-6	23,100		2.72	20.8		1
01656	Lithium	7439-93-2	19.4		0.65	2.1		1
01657	Magnesium	7439-95-4	4,840		0.458	10.4		1
06958	Manganese	7439-96-5	241		0.0375	0.520		1
10145	Phosphorus	7723-14-0	294		0.364	10.4		1
01662	Potassium	7440-09-7	2,270		11.8	52.0		1
01667	Sodium	7440-23-5	286		6.19	104		1
07968	Strontium	7440-24-6	24.8		0.0260	0.520		1
06969	Tin	7440-31-5	2.85	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,360		0.0739	1.04		1
10146	Zirconium	7440-67-7	3.25	J	0.479	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.158	J	0.0778	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.52		0.0841	0.420		2
06126	Barium	7440-39-3	98.1		0.111	0.420		2
06127	Beryllium	7440-41-7	0.620		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.117		0.0462	0.105		2
06131	Chromium	7440-47-3	32.4		0.126	0.420		2
06132	Cobalt	7440-48-4	10.2		0.0210	0.105		2
06133	Copper	7440-50-8	13.7		0.0841	0.420		2
06135	Lead	7439-92-1	7.02		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.475		0.0525	0.105		2
06139	Nickel	7440-02-0	16.8		0.105	0.420		2
06141	Selenium	7782-49-2	0.0619	J	0.0609	0.420		2
06142	Silver	7440-22-4	0.0260	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.360		0.0315	0.105		2
06148	Vanadium	7440-62-2	58.6		0.0231	0.105		2
06149	Zinc	7440-66-6	62.2		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.86	1.6		1

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Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314469
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47101 SDG#: DE179-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.21	1.1		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	17a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-047-SA5DN-SB-10.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 08:15	Holly Berry	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 16:16	Jason M Long	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:32	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:32	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11171SLF026	07/01/2011 04:14	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 23:01	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 11:11	Joseph M Gambler	1

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Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314469
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47101 SDG#: DE179-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11171SLF026	06/21/2011 07:00	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 20:17	Catherine J Schwarz	23.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:32	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 18:25	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710005A	06/21/2011 22:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 10:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710005A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/22/2011 21:46	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111650034A	06/14/2011 23:25	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 17:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 00:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111650034A	06/14/2011 17:15	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:20	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 08:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2

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Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314469
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

47101 SDG#: DE179-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 08:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 08:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 08:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 17:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621201A	06/24/2011 17:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/24/2011 01:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 14:34	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:37	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314470
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54405 SDG#: DE179-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7	U	6.7	8.0		0.82
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.82
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.82
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.82
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.82
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.82
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.82
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.82
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.82
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.82
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.82
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.82
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.82
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.82
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.82
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.82
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.82
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.82
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.82
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.82
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.82
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.82
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.82
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.82
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.82
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.82
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.82
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.82
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.82
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.82
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.82
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.82
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.82
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.82
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.82
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.82
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.82
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.82
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.82
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.82
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.82
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.82
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.82
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.82
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.82
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.82
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.82
06192	Methylene Chloride	75-09-2	4.1		0.24	4.0		0.82
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.82

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Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314470
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54405 SDG#: DE179-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.82
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.82
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.82
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.82
06192	Toluene	108-88-3	0.23	J	0.08	4.0		0.82
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.82
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.82
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.82
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.82
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.82
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.82
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.82
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.82
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.82
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.82
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.82
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.82
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15		20.19
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	81	U	81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314470
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54405 SDG#: DE179-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	81	U	81	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	81	U	81	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.81	U	0.81	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.81	U	0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U	0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U	0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U	0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U	0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.81	U	0.81	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.81	U	0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U	0.81	2.0		1

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Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314470
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54405 SDG#: DE179-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U	0.81	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.81	U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81	U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81	U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81	U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.81	U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81	U	0.81	2.0		1
	The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,600		7.26	24.0		1
07914	Boron	7440-42-8	4.57	J	0.432	6.00		1
01650	Calcium	7440-70-2	5,390		3.00	24.0		1
01654	Iron	7439-89-6	29,200		3.13	24.0		1
01656	Lithium	7439-93-2	29.1		0.74	2.4		1
01657	Magnesium	7439-95-4	5,930		0.528	12.0		1
06958	Manganese	7439-96-5	881		0.0432	0.600		1
10145	Phosphorus	7723-14-0	391		0.420	12.0		1
01662	Potassium	7440-09-7	3,540		13.6	60.0		1
01667	Sodium	7440-23-5	300		7.14	120		1
07968	Strontium	7440-24-6	38.9		0.0300	0.600		1
06969	Tin	7440-31-5	3.09	J	0.384	12.0		1
06970	Titanium	7440-32-6	1,680		0.0852	1.20		1
10146	Zirconium	7440-67-7	5.49	J	0.552	6.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.307		0.0871	0.235		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314470
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54405 SDG#: DE179-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	8.16	0.0941	0.471		2
06126	Barium	7440-39-3	167	0.125	0.471		2
06127	Beryllium	7440-41-7	1.10	0.0188	0.118		2
06128	Cadmium	7440-43-9	0.508	0.0518	0.118		2
06131	Chromium	7440-47-3	43.6	0.141	0.471		2
06132	Cobalt	7440-48-4	15.5	0.0235	0.118		2
06133	Copper	7440-50-8	17.5	0.0941	0.471		2
06135	Lead	7439-92-1	11.7	0.0120	0.235		2
06138	Molybdenum	7439-98-7	0.868	0.0588	0.118		2
06139	Nickel	7440-02-0	28.9	0.118	0.471		2
06141	Selenium	7782-49-2	0.0775 J	0.0683	0.471		2
06142	Silver	7440-22-4	0.0594 J	0.0167	0.118		2
06145	Thallium	7440-28-0	0.427	0.0353	0.118		2
06148	Vanadium	7440-62-2	87.8	0.0259	0.118		2
06149	Zinc	7440-66-6	81.3	0.659	3.53		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0083 U	0.0083	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.3	0.97	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.7	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-054-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314470
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Suite 210
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54405 SDG#: DE179-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 08:38	Holly Berry	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 16:36	Jason M Long	20.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:35	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:35	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011 23:27	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 11:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 11:12	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 09:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 09:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 09:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314470
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54405 SDG#: DE179-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 09:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 17:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/24/2011 02:20	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 14:45	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314471
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54910 SDG#: DE179-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314471
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54910 SDG#: DE179-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
2,4-dinitrophenol

GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1

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SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314471
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

54910 SDG#: DE179-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.85	J	0.47	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	35,700		7.02	23.2		1
07914	Boron	7440-42-8	6.35		0.418	5.80		1
01650	Calcium	7440-70-2	7,860		2.90	23.2		1
01654	Iron	7439-89-6	42,100		15.1	116		5
01656	Lithium	7439-93-2	31.3		0.72	2.3		1
01657	Magnesium	7439-95-4	8,110		0.510	11.6		1
06958	Manganese	7439-96-5	856		0.0418	0.580		1
10145	Phosphorus	7723-14-0	460		0.406	11.6		1
01662	Potassium	7440-09-7	3,330		13.1	58.0		1
01667	Sodium	7440-23-5	495		6.90	116		1
07968	Strontium	7440-24-6	49.5		0.0290	0.580		1
06969	Tin	7440-31-5	3.33	J	0.371	11.6		1
06970	Titanium	7440-32-6	1,590		0.0824	1.16		1
10146	Zirconium	7440-67-7	7.08		0.534	5.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.309		0.0858	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.1		0.0928	0.464		2
06126	Barium	7440-39-3	143		0.123	0.464		2
06127	Beryllium	7440-41-7	1.14		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.201		0.0510	0.116		2
06131	Chromium	7440-47-3	49.9		0.139	0.464		2
06132	Cobalt	7440-48-4	11.8		0.0232	0.116		2
06133	Copper	7440-50-8	24.4		0.0928	0.464		2
06135	Lead	7439-92-1	12.3		0.0118	0.232		2
06138	Molybdenum	7439-98-7	0.742		0.0580	0.116		2
06139	Nickel	7440-02-0	25.6		0.116	0.464		2
06141	Selenium	7782-49-2	0.130	J	0.0673	0.464		2
06142	Silver	7440-22-4	0.0609	J	0.0165	0.116		2
06145	Thallium	7440-28-0	0.386		0.0348	0.116		2
06148	Vanadium	7440-62-2	94.2		0.0255	0.116		2
06149	Zinc	7440-66-6	85.5		0.650	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.96	1.2		1

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Sample Description: SL-054-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314471
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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54910 SDG#: DE179-10

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**EPA 314.0**		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.8	U	10.8	35.8		1
		SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199		18540-29-9	0.55	J	0.24	1.2		1
		SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C		n.a.	8.31		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3		n.a.	16.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/24/2011	23:53	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011	12:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011	08:00	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011	11:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011	18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011	23:31	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011	11:28	Eric L Eby	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314471
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14420 Albemarle Point Place
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54910 SDG#: DE179-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 09:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 09:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 09:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 09:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201A	06/24/2011 17:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202A	06/24/2011 02:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 14:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201A	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202A	06/23/2011 06:35	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314472
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20245 SDG#: DE179-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0	U	7.0	8.4		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.2		0.87
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2		0.87
06192	Bromoform	75-25-2	0.42	U	0.42	4.2		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2		0.87
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4		0.87
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.87
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.87
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2		0.87
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2		0.87
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2		0.87
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.87
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.87
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2		0.87
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.87
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.87
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.87
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2		0.87
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.87
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.87
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2		0.87
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.87
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.2		0.87
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.87
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.87
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4		0.87
06192	Methylene Chloride	75-09-2	3.5	J	0.25	4.2		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.87

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Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314472
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20245 SDG#: DE179-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.87
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.87
06192	Toluene	108-88-3	0.17	J	0.08	4.2		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2		0.87
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2		0.87
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.87
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.87
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		21.74
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	600		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	600		1
04688	Benzyl alcohol	100-51-6	200	U	200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	80	U	80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	600		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314472
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20245 SDG#: DE179-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U	80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	600		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	80	U	80	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	600		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 2,4-dinitrophenol							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U	0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U	0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U	0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.90	J	0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U	0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U	0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	22		1
10138	Chrysene	218-01-9	0.67	J	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U	0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U	7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U	0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U	0.80	2.0		1

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Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314472
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
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20245 SDG#: DE179-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U	0.80	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.80	U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80	U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80	U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80	U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80	U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80	U	0.80	2.0		1
	The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.47	U	0.47	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	38,800		7.30	24.1		1
07914	Boron	7440-42-8	9.10		0.434	6.03		1
01650	Calcium	7440-70-2	10,600		3.02	24.1		1
01654	Iron	7439-89-6	42,300		15.7	121		5
01656	Lithium	7439-93-2	32.1		0.75	2.4		1
01657	Magnesium	7439-95-4	9,350		0.531	12.1		1
06958	Manganese	7439-96-5	596		0.0434	0.603		1
10145	Phosphorus	7723-14-0	549		0.422	12.1		1
01662	Potassium	7440-09-7	4,230		13.6	60.3		1
01667	Sodium	7440-23-5	258		7.18	121		1
07968	Strontium	7440-24-6	49.8		0.0302	0.603		1
06969	Tin	7440-31-5	3.15	J	0.386	12.1		1
06970	Titanium	7440-32-6	1,680		0.0856	1.21		1
10146	Zirconium	7440-67-7	7.74		0.555	6.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.395		0.0893	0.241		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314472
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Chantilly VA 20151

20245 SDG#: DE179-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06125	Arsenic	7440-38-2	10.5	0.0965	0.483		2
06126	Barium	7440-39-3	198	0.128	0.483		2
06127	Beryllium	7440-41-7	1.32	0.0193	0.121		2
06128	Cadmium	7440-43-9	0.512	0.0531	0.121		2
06131	Chromium	7440-47-3	55.9	0.145	0.483		2
06132	Cobalt	7440-48-4	21.5	0.0241	0.121		2
06133	Copper	7440-50-8	25.0	0.0965	0.483		2
06135	Lead	7439-92-1	16.1	0.0123	0.241		2
06138	Molybdenum	7439-98-7	0.434	0.0603	0.121		2
06139	Nickel	7440-02-0	35.5	0.121	0.483		2
06141	Selenium	7782-49-2	0.104 J	0.0700	0.483		2
06142	Silver	7440-22-4	0.0636 J	0.0171	0.121		2
06145	Thallium	7440-28-0	0.471	0.0362	0.121		2
06148	Vanadium	7440-62-2	109	0.0265	0.121		2
06149	Zinc	7440-66-6	95.0	0.676	3.62		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085 U	0.0085	0.120		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6	0.97	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	7.72	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	17.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-202-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314472
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20245 SDG#: DE179-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111691AA	06/18/2011 09:00	Holly Berry	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 16:56	Jason M Long	21.74
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:38	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116524665	06/14/2011 13:42	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116524665	06/14/2011 13:42	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116524665	06/14/2011 13:38	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11171SLG026	06/25/2011 00:20	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011 12:47	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11171SLG026	06/21/2011 08:00	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011 11:49	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011 18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011 23:35	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011 11:33	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011 09:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 09:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 09:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314472
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20245 SDG#: DE179-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 09:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201B	06/24/2011 17:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202B	06/24/2011 01:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 15:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201B	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202B	06/23/2011 06:35	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314473
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20291 SDG#: DE179-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1

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Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314473
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20291 SDG#: DE179-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1

The GC/MS semivolatile surrogate recoveries are outside of QC limits in the method blank associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

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Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314473
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

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20291 SDG#: DE179-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,400		6.84	22.6		1
07914	Boron	7440-42-8	4.94	J	0.407	5.65		1
01650	Calcium	7440-70-2	11,400		2.82	22.6		1
01654	Iron	7439-89-6	33,400		14.7	113		5
01656	Lithium	7439-93-2	24.8		0.70	2.3		1
01657	Magnesium	7439-95-4	6,390		0.497	11.3		1
06958	Manganese	7439-96-5	440		0.0407	0.565		1
10145	Phosphorus	7723-14-0	372		0.395	11.3		1
01662	Potassium	7440-09-7	3,480		12.8	56.5		1
01667	Sodium	7440-23-5	223		6.72	113		1
07968	Strontium	7440-24-6	37.3		0.0282	0.565		1
06969	Tin	7440-31-5	3.08	J	0.362	11.3		1
06970	Titanium	7440-32-6	1,490		0.0802	1.13		1
10146	Zirconium	7440-67-7	5.71		0.520	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.338		0.0836	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.04		0.0904	0.452		2
06126	Barium	7440-39-3	140		0.120	0.452		2
06127	Beryllium	7440-41-7	1.02		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.259		0.0497	0.113		2
06131	Chromium	7440-47-3	40.2		0.136	0.452		2
06132	Cobalt	7440-48-4	9.63		0.0226	0.113		2
06133	Copper	7440-50-8	17.4		0.0904	0.452		2
06135	Lead	7439-92-1	10.6		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.391		0.0565	0.113		2
06139	Nickel	7440-02-0	21.6		0.113	0.452		2
06141	Selenium	7782-49-2	0.0655	U	0.0655	0.452		2
06142	Silver	7440-22-4	0.0593	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.347		0.0339	0.113		2
06148	Vanadium	7440-62-2	77.6		0.0249	0.113		2
06149	Zinc	7440-66-6	72.0		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.9		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.54	J	0.24	1.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314473
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20291 SDG#: DE179-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.10	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011	14:34	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLB026	07/01/2011	13:18	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLB026	06/21/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011	07:45	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111780018A	06/29/2011	12:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	111780018A	06/27/2011	18:10	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
07914	Boron	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
01654	Iron	SW-846 6010B	1	111725708002	06/26/2011	23:38	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
06969	Tin	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	111725708002	06/24/2011	11:37	Eric L Eby	1
06124	Antimony	SW-846 6020	1	111721026001A	06/22/2011	09:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026001A	06/22/2011	09:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026001D	06/22/2011	09:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026001A	06/22/2011	09:09	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314473
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

20291 SDG#: DE179-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026001C	06/22/2011 09:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026001B	06/22/2011 09:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026001A	06/22/2011 09:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711004	06/23/2011 06:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708002	06/21/2011 20:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026001	06/21/2011 21:02	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711004	06/21/2011 13:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621201B	06/24/2011 18:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621202B	06/24/2011 04:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11166243202A	06/16/2011 15:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621201B	06/24/2011 06:27	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621202B	06/23/2011 06:35	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11166243202A	06/15/2011 20:00	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-061311 Water
SSFL Area IV Collocated Soil Sampling
TB-061311

LLI Sample # WW 6314474
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 08:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB613 SDG#: DE179-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-061311 Water
SSFL Area IV Collocated Soil Sampling
TB-061311

LLI Sample # WW 6314474
LLI Group # 1251242
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 08:00

Submitted: 06/14/2011 10:05
Reported: 07/11/2011 15:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB613 SDG#: DE179-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111691AA	06/18/2011 14:15	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111671AA	06/16/2011 19:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111671AA	06/16/2011 19:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111691AA	06/18/2011 14:15	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11173A20A	06/23/2011 10:44	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11173A20A	06/23/2011 10:44	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111691AA	Sample number(s): 6314462-6314470,6314472									
Acetone	6.7	U	6.7	8.0	ug/kg	114	89	32-209	25	30
Benzene	0.10	U	0.10	4.0	ug/kg	112	106	80-120	5	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	108	107	79-120	1	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	118	111	79-124	6	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	110	104	78-120	6	30
Bromoform	0.40	U	0.40	4.0	ug/kg	114	104	70-120	10	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	111	105	32-162	6	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	107	84	46-153	25	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	109	106	72-120	3	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	108	106	75-120	2	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	107	104	75-120	3	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	120	112	69-122	6	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	112	109	80-120	3	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	105	99	37-154	6	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	96	82	43-146	16	30
Chloroform	0.12	U	0.12	4.0	ug/kg	113	108	80-120	4	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	106	99	54-132	6	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106	106	78-120	0	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	112	109	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	63	61	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	120	96	58-120	22	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	113	107	77-120	6	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	115	104	80-120	10	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	110	98	80-120	11	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	111	109	79-120	2	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	108	105	78-120	3	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	108	107	79-120	1	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	104	96	20-120	7	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	114	109	80-120	5	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	120	110	71-129	8	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	124*	118	73-123	5	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	111	105	80-120	5	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	115	108	79-120	6	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	104	100	80-120	3	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	113	104	80-120	8	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	120	115	72-123	4	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	111	105	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	104	98	80-120	6	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	109	102	77-120	7	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	111	108	80-120	2	30
Freon 113	0.11	U	0.11	4.0	ug/kg	122	116	61-126	5	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	101	101	78-120	0	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	106	105	57-120	1	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	115	90	45-155	24	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	114	111	76-120	3	30
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	108	106	75-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	119	105	74-121	12	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	111	88	61-134	23	30
Methylene Chloride	0.98	J	0.24	4.0	ug/kg	120	113	76-124	6	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	109	109	77-120	1	30
Styrene	0.10	U	0.10	4.0	ug/kg	111	107	76-120	3	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	115	111	80-120	4	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	107	93	71-123	13	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	116	113	77-120	3	30
Toluene	0.08	U	0.08	4.0	ug/kg	112	109	80-120	3	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	110	104	64-120	6	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	101	97	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	102	98	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	113	103	80-120	9	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	108	102	80-120	6	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	113	107	58-133	5	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	112	100	71-123	12	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	109	107	79-120	2	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110	108	78-120	2	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	101	94	53-120	7	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	115	113	80-120	2	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	112	108	80-120	3	30
Batch number: E111671AA	Sample number(s): 6314474									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	103	80-123	1	30
Batch number: E111681AA	Sample number(s): 6314462-6314470,6314472									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	100	103	70-130	3	30
Batch number: L111691AA	Sample number(s): 6314474									
Acetone	6	U	6.	20	ug/l	142	138	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	99	96	79-120	4	30
Bromobenzene	1	U	1.	5	ug/l	100	96	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	95	90	80-120	6	30
Bromoform	1	U	1.	5	ug/l	89	86	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	93	91	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	106	101	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	98	95	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	94	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	95	90	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	95	80-120	5	30
Chloroethane	1	U	1.	5	ug/l	93	91	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	87	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	98	94	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	94	92	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	44	46	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	80	79	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	94	93	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	97	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	95	91	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	95	80-120	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	96	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	78	76	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	91	79-120	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	96	93	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	92	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	94	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	93	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	93	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	93	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	91	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	89	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	84	81	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	87	88	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	87	87	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	91	89	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	101	97	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	92	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	93	90	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	81	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	98	94	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	97	94	80-120	3	30
Styrene	1	U	1.	5	ug/l	98	95	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	94	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	96	94	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	96	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	99	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	81	75-127	5	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	98	92	80-120	6	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	87	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	97	94	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	95	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	94	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	93	89	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	97	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
Batch number: 11171SLF026	Sample number(s): 6314462-6314467,6314469									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	94		70-130		
Batch number: 11171SLG026	Sample number(s): 6314462-6314472									
Aniline	170 U		170.	500	ug/kg	70		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	60		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	102		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	97		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	93		61-127		
Benzoic acid	170 U		170.	500	ug/kg	81		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	88		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	59		10-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	86		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	90		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	93		79-110		
Chrysene	17	U	17.	170	ug/kg	103		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	93		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	61		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	96		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	60		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	32*		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	92		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	107		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	116		75-117		
Fluoranthene	17	U	17.	170	ug/kg	95		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	94		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Isophorone	17	U	17.	170	ug/kg	93		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	82		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	87		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U		170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	86		51-117		
Phenol	17	U	17.	170	ug/kg	88		58-112		
Pyrene	17	U	17.	170	ug/kg	104		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11172SLB026	Sample number(s): 6314462-6314473									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	77		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	85		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	97		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		44-138		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	108		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	98		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	88		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	101		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	84		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	108		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	96		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	91		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	104		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	85		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	86		56-121		
Batch number: 11172SLC026	Sample number(s): 6314473									
Aniline	170	U	170.	500	ug/kg	78		34-94		
Benzidine	1,200	U	1,200.	3,300	ug/kg	61		15-121		
Benzoic acid	170	U	170.	500	ug/kg	97		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	70		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	79		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	80		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	93		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	69		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	102		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	90		51-117		
Phenol	17	U	17.	170	ug/kg	92		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11181SLA026	Sample number(s): 6314468									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	96		70-130		
Batch number: 11166B34A	Sample number(s): 6314462-6314469									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 11173A20A	Sample number(s): 6314474									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 111710007A	Sample number(s): 6314462-6314469									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	113		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	99	97	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	98	97	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100	U	100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	112		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800	U	800.	2,400	ug/kg	104		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	117		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
Batch number: 111710005A	Sample number(s): 6314462-6314469									
25a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	98		80-126		
Batch number: 111660019A	Sample number(s): 6314463,6314467									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111780018A	Sample number(s): 6314462-6314473									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	101	93	36-106	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111720037A	Sample number(s): 6314462-6314469									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	94		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		54-107		
Batch number: 111650034A	Sample number(s): 6314462-6314469									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 111670001A	Sample number(s): 6314462-6314469									
Diethylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Batch number: 111720008A	Sample number(s): 6314462-6314469									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
Batch number: 111721026001A	Sample number(s): 6314462-6314473									
Antimony	0.101	J	0.0740	0.200	mg/kg	142		27-181		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		83-113		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	100		86-111		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		82-118		
Chromium	0.120	U	0.120	0.400	mg/kg	113		80-120		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	106		82-118		
Copper	0.0800	U	0.0800	0.400	mg/kg	102		83-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	99		83-110		
Nickel	0.100	U	0.100	0.400	mg/kg	98		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	102		81-111		
Thallium	0.0300	U	0.0300	0.100	mg/kg	99		83-110		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	103		84-116		
Zinc	0.560	U	0.560	3.00	mg/kg	103		81-112		
Batch number: 111721026001B	Sample number(s): 6314462-6314473									
Selenium	0.0580	U	0.0580	0.400	mg/kg	103		83-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111721026001C	Sample number(s): 6314462-6314473									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		78-122		
Batch number: 111721026001D	Sample number(s): 6314462-6314473									
Barium	0.106	U	0.106	0.400	mg/kg	106		81-111		
Batch number: 111725708002	Sample number(s): 6314462-6314473									
Aluminum	6.05	U	6.05	20.0	mg/kg	104		61-110		
Boron	0.360	U	0.360	5.00	mg/kg	98		78-110		
Calcium	2.50	U	2.50	20.0	mg/kg	101		88-110		
Iron	4.19	J	2.61	20.0	mg/kg	101		61-110		
Lithium	0.62	U	0.62	2.0	mg/kg	100		80-120		
Magnesium	0.703	J	0.440	10.0	mg/kg	102		82-110		
Manganese	0.0380	J	0.0360	0.500	mg/kg	104		89-112		
Phosphorus	1.71	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	102		78-110		
Sodium	5.95	U	5.95	100	mg/kg	97		87-110		
Strontium	0.0250	U	0.0250	0.500	mg/kg	103		86-110		
Tin	1.71	J	0.320	10.0	mg/kg	103		90-114		
Titanium	0.0710	U	0.0710	1.00	mg/kg	106		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 111725711004	Sample number(s): 6314462-6314473									
Mercury	0.0067	U	0.0067	0.0956	mg/kg	89		88-123		
Batch number: 11166243202A	Sample number(s): 6314462-6314473									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11173102201A	Sample number(s): 6314462-6314469									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11174621202A	Sample number(s): 6314462-6314471									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11174621202B	Sample number(s): 6314472-6314473									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11175621201A	Sample number(s): 6314462-6314471									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11175621201B	Sample number(s): 6314472-6314473									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11167039401B	Sample number(s): 6314462-6314467									
18a pH by 9045C						100		95-105		
Batch number: 11167039402A	Sample number(s): 6314468-6314473									
18a pH by 9045C						100		95-105		
Batch number: 11168162401A	Sample number(s): 6314470-6314471									
Moisture Content by 160.3						100		80-120		
Batch number: 11168162401B	Sample number(s): 6314472-6314473									
Moisture Content by 160.3						100		80-120		
Batch number: 11180162401A	Sample number(s): 6314462-6314469									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E111681AA	Sample number(s): 6314462-6314470,6314472 UNSPK: P315633								
1,4-Dioxane	98	94	70-130	7	30				
Batch number: 11171SLF026	Sample number(s): 6314462-6314467,6314469 UNSPK: P313367								
N-Nitrosodimethylamine	87	78	70-130	10	30				
Batch number: 11171SLG026	Sample number(s): 6314462-6314472 UNSPK: 6314462								
Aniline	67	75	35-95	12	30				
Benzidine	58	66	35-141	13	30				
Benzo(a)anthracene	102	98	65-122	4	30				
Benzo(a)pyrene	94	93	57-126	1	30				
Benzo(b)fluoranthene	92	91	59-125	1	30				
Benzoic acid	39	62	10-173	46*	30				
Benzyl alcohol	85	90	67-115	5	30				
4-Bromophenyl-phenylether	98	101	67-129	3	30				
Carbazole	94	96	64-120	2	30				
4-Chloro-3-methylphenol	89	91	76-110	3	30				
4-Chloroaniline	70	77	23-95	9	30				
bis(2-Chloroethoxy)methane	92	94	75-104	2	30				
bis(2-Chloroethyl)ether	84	88	60-116	5	30				
bis(2-Chloroisopropyl)ether	80	84	55-142	5	30				
2-Chloronaphthalene	95	93	50-141	3	30				
2-Chlorophenol	86	90	73-121	4	30				
4-Chlorophenyl-phenylether	96	96	80-109	1	30				
Chrysene	101	99	62-128	2	30				
Dibenzofuran	94	93	71-112	1	30				
1,2-Dichlorobenzene	81	81	66-108	0	30				
1,3-Dichlorobenzene	79	80	63-109	2	30				
1,4-Dichlorobenzene	78	81	70-100	3	30				
3,3'-Dichlorobenzidine	74	82	16-119	11	30				
2,4-Dichlorophenol	92	94	78-117	2	30				
2,4-Dimethylphenol	95	95	78-110	0	30				
3,5-Dimethylphenol	93	96	70-130	3	30				
4,6-Dinitro-2-methylphenol	35	37	24-116	8	30				
2,4-Dinitrophenol	14*	15*	20-143	3	30				
2,4-Dinitrotoluene	89	89	73-113	1	30				
2,6-Dinitrotoluene	95	98	69-123	3	30				
1,2-Diphenylhydrazine	107	108	71-129	0	30				
bis(2-Ethylhexyl)phthalate	118	120	63-122	2	30				
Fluoranthene	93	93	73-112	0	30				
Hexachlorobenzene	98	98	77-114	0	30				
Hexachlorobutadiene	92	93	62-120	1	30				
Hexachlorocyclopentadiene	92	94	10-153	1	30				
Hexachloroethane	81	82	57-109	2	30				
Isophorone	94	95	73-102	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylphenol	83	86	75-111	4	30				
4-Methylphenol	81	85	71-111	6	30				
2-Nitroaniline	95	96	67-125	1	30				
3-Nitroaniline	88	90	59-122	2	30				
4-Nitroaniline	63	67	52-112	6	30				
Nitrobenzene	91	94	72-106	4	30				
2-Nitrophenol	93	93	74-115	1	30				
4-Nitrophenol	77	85	54-113	9	30				
N-Nitroso-di-n-propylamine	82	87	60-116	6	30				
N-Nitrosodiphenylamine	102	104	86-145	2	30				
Pentachlorophenol	70	68	28-127	3	30				
Phenol	82	88	58-126	7	30				
Pyrene	105	103	74-126	2	30				
1,2,4-Trichlorobenzene	93	92	72-115	0	30				
2,4,5-Trichlorophenol	96	95	78-109	1	30				
2,4,6-Trichlorophenol	97	100	77-115	3	30				
Batch number: 11172SLB026	Sample number(s): 6314462-6314473 UNSPK: 6314462								
Acenaphthene	82	76	63-105	9	30				
Acenaphthylene	79	72	67-114	9	30				
Anthracene	87	80	60-122	8	30				
Benzo(a)anthracene	88	82	59-128	6	30				
Benzo(a)pyrene	90	85	45-138	5	30				
Benzo(b)fluoranthene	98	87	43-155	11	30				
Benzo(g,h,i)perylene	61	54	33-141	10	30				
Benzo(k)fluoranthene	99	95	42-144	3	30				
Butylbenzylphthalate	106	90	57-173	17	30				
Di-n-butylphthalate	115	103	65-148	11	30				
Chrysene	84	80	48-134	4	30				
Dibenz(a,h)anthracene	80	77	22-133	4	30				
Diethylphthalate	95	87	70-136	10	30				
Dimethylphthalate	87	79	74-118	9	30				
Bis(2-Ethylhexyl)phthalate	110	100	39-167	10	30				
Fluoranthene	86	81	26-166	5	30				
Fluorene	83	75	66-122	10	30				
Indeno(1,2,3-cd)pyrene	76	75	21-143	1	30				
1-Methylnaphthalene	96	87	72-123	10	30				
2-Methylnaphthalene	85	77	64-103	9	30				
Naphthalene	86	79	61-102	9	30				
N-Nitrosodimethylamine	90	82	48-113	9	30				
Di-n-octylphthalate	124	106	40-192	15	30				
Phenanthrene	83	74	12-165	10	30				
Pyrene	73	64	15-153	11	30				
Batch number: 11172SLC026	Sample number(s): 6314473 UNSPK: P315633								
Aniline	73	76	35-95	5	30				
Benzidine	45	53	35-141	17	30				
Benzoic acid	76	70	10-173	7	30				
Benzyl alcohol	91	91	67-115	0	30				
4-Bromophenyl-phenylether	93	89	67-129	3	30				
Carbazole	93	93	64-120	0	30				
4-Chloro-3-methylphenol	93	91	76-110	2	30				
4-Chloroaniline	68	74	23-95	9	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	91	85	75-104	6	30				
bis(2-Chloroethyl)ether	85	86	60-116	2	30				
bis(2-Chloroisopropyl)ether	81	78	55-142	3	30				
2-Chloronaphthalene	101	90	50-141	11	30				
2-Chlorophenol	89	87	73-121	1	30				
4-Chlorophenyl-phenylether	92	89	80-109	3	30				
Dibenzofuran	93	90	71-112	2	30				
1,2-Dichlorobenzene	84	83	66-108	1	30				
1,3-Dichlorobenzene	84	82	63-109	1	30				
1,4-Dichlorobenzene	84	82	70-100	1	30				
3,3'-Dichlorobenzidine	80	80	16-119	0	30				
2,4-Dichlorophenol	93	90	78-117	2	30				
2,4-Dimethylphenol	95	93	78-110	1	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
4,6-Dinitro-2-methylphenol	93	90	24-116	3	30				
2,4-Dinitrophenol	88	87	20-143	0	30				
2,4-Dinitrotoluene	92	91	73-113	0	30				
2,6-Dinitrotoluene	95	92	69-123	2	30				
1,2-Diphenylhydrazine	103	95	71-129	7	30				
Hexachlorobenzene	96	90	77-114	7	30				
Hexachlorobutadiene	90	85	62-120	5	30				
Hexachlorocyclopentadiene	84	80	10-153	5	30				
Hexachloroethane	85	81	57-109	4	30				
Isophorone	92	89	73-102	3	30				
2-Methylphenol	88	85	75-111	3	30				
4-Methylphenol	85	85	71-111	0	30				
2-Nitroaniline	97	96	67-125	0	30				
3-Nitroaniline	86	87	59-122	2	30				
4-Nitroaniline	68	72	52-112	6	30				
Nitrobenzene	92	90	72-106	2	30				
2-Nitrophenol	93	90	74-115	2	30				
4-Nitrophenol	83	82	54-113	1	30				
N-Nitroso-di-n-propylamine	84	83	60-116	1	30				
N-Nitrosodiphenylamine	100	94	86-145	6	30				
Pentachlorophenol	90	89	28-127	1	30				
Phenol	91	89	58-126	1	30				
1,2,4-Trichlorobenzene	95	90	72-115	4	30				
2,4,5-Trichlorophenol	97	91	78-109	6	30				
2,4,6-Trichlorophenol	96	94	77-115	1	30				
Batch number: 11181SLA026	Sample number(s): 6314468 UNSPK: P325681								
N-Nitrosodimethylamine	90	82	70-130	10	30				
Batch number: 11166B34A	Sample number(s): 6314462-6314469 UNSPK: P315633								
9a TPH by EPA 8015B Gas C5-C12	62	64	39-118	3	30				
Batch number: 111710007A	Sample number(s): 6314462-6314469 UNSPK: P315633								
4-Amino-2,6-Dinitrotoluene	114	114	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	111	110	80-137	1	50				
1,3-Dinitrobenzene	117	115	38-166	2	50				
2,4-Dinitrotoluene	107	107	80-131	0	50				
2,6-Dinitrotoluene	111	110	80-127	1	50				
HMX	98	97	63-128	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	110	110	80-125	0	50				
Nitroglycerin	97	95	80-120	2	50				
2-Nitrotoluene	109	111	80-122	2	50				
3-Nitrotoluene	117	118	72-119	1	50				
4-Nitrotoluene	108	110	80-125	1	50				
PETN	107	105	80-121	1	50				
RDX	91	91	75-129	1	50				
Tetryl	99	91	55-174	8	50				
1,3,5-Trinitrobenzene	107	100	82-126	7	50				
2,4,6-Trinitrotoluene	114	113	82-130	1	50				
Batch number: 111710005A	Sample number(s): 6314462-6314469 UNSPK: 6314462								
25a Formaldehyde 8315A	97	99	80-120	2	50				
Batch number: 111660019A	Sample number(s): 6314463,6314467 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111780018A	Sample number(s): 6314462-6314473 UNSPK: P328447								
PCB-1016	85	90	29-146	6	50				
PCB-1260	88	112	39-149	25	50				
Batch number: 111720037A	Sample number(s): 6314462-6314469 UNSPK: P315633								
EFH (C12-C14)	0*	95	49-123	200*	20				
EFH (C15-C20)	344*	139*	49-123	85*	20				
EFH (C21-C30)	2840 (2)	21 (2)	49-123	151*	20				
EFH (C30 - C40)	5317 (2)	171 (2)	49-123	142*	20				
EFH (C8-C11)	0*	36*	49-123	200*	20				
Batch number: 111650034A	Sample number(s): 6314462-6314469 UNSPK: 6314464								
Ethanol	78	79	48-130	2	20				
Isopropanol	76	78	12-149	2	20				
Methanol	79	82	43-138	3	20				
Batch number: 111670001A	Sample number(s): 6314462-6314469 UNSPK: P315633								
Diethylene glycol	50*	53*	59-109	6	20				
Ethylene glycol	73	77	63-107	5	20				
Propylene glycol	78	83	63-107	6	20				
Batch number: 111720008A	Sample number(s): 6314462-6314469 UNSPK: P315633								
m-Terphenyl	68*	69*	75-125	1	20				
o-Terphenyl	80	80	75-125	1	20				
p-Terphenyl	83	81	75-125	3	20				
Batch number: 111721026001A	Sample number(s): 6314462-6314473 UNSPK: 6314462 BKG: 6314462								
Antimony	64*	53*	75-125	13	20	0.346	0.596	53* (1)	20
Arsenic	99	98	75-125	1	20	6.11	5.72	7	20
Beryllium	103	90	75-125	7	20	0.896	0.833	7	20
Cadmium	120	108	75-125	10	20	0.165	0.323	65* (1)	20
Chromium	107	117	75-125	2	20	36.0	34.3	5	20
Cobalt	110	106	75-125	4	20	9.45	10.0	6	20
Copper	99	121	75-125	8	20	15.0	27.7	60*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	110	284*	75-125	34*	20	8.88	13.0	38*	20
Nickel	100	117	75-125	5	20	19.2	18.9	2	20
Silver	117	107	75-125	10	20	0.0450 J	0.0414 J	8 (1)	20
Thallium	107	105	75-125	2	20	0.336	0.287	16 (1)	20
Vanadium	114 (2)	118 (2)	75-125	0	20	66.1	59.8	10	20
Zinc	64 (2)	126 (2)	75-125	9	20	57.9	64.6	11	20
Batch number: 111721026001B	Sample number(s): 6314462-6314473 UNSPK: 6314462 BKG: 6314462								
Selenium	100	100	75-125	1	20	0.0958 J	0.0588 J	48* (1)	20
Batch number: 111721026001C	Sample number(s): 6314462-6314473 UNSPK: 6314462 BKG: 6314462								
Molybdenum	116	108	75-125	7	20	0.395	0.423	7 (1)	20
Batch number: 111721026001D	Sample number(s): 6314462-6314473 UNSPK: 6314462 BKG: 6314462								
Barium	144 (2)	148 (2)	75-125	0	20	115	112	3	20
Batch number: 111725708002	Sample number(s): 6314462-6314473 UNSPK: 6314462 BKG: 6314462								
Aluminum	1239 (2)	2136 (2)	75-125	5	20	29,700	26,200	12	20
Boron	99	99	84-115	2	20	4.65 J	3.15 J	39* (1)	20
Calcium	713 (2)	-38 (2)	75-125	22*	20	12,500	12,700	2	20
Iron	1046 (2)	2072 (2)	75-125	3	20	30,000	28,500	5	20
Lithium	102	102	82-114	3	20	24.2	22.5	7	20
Magnesium	242 (2)	272 (2)	75-125	1	20	6,070	5,790	5	20
Manganese	-2 (2)	96 (2)	75-125	13	20	352	301	16	20
Phosphorus	154*	145*	75-125	4	20	203	212	4	20
Potassium	156*	166*	75-125	1	20	2,910	2,810	4	20
Sodium	96	98	75-125	1	20	436	409	6 (1)	20
Strontium	97	99	75-115	1	20	39.1	37.4	5	20
Tin	89	88	80-110	4	20	3.19 J	2.16 J	38* (1)	20
Titanium	187 (2)	224 (2)	75-125	2	20	1,260	1,060	18	20
Zirconium	98	96	75-125	5	20	4.92 J	4.64 J	6 (1)	20
Batch number: 111725711004	Sample number(s): 6314462-6314473 UNSPK: 6314462 BKG: 6314462								
Mercury	98	91	65-135	7	20	0.0068 U	0.0067 U	0 (1)	20
Batch number: 11166243202A	Sample number(s): 6314462-6314473 UNSPK: 6314463 BKG: 6314463								
3a Cr VI by EPA 7199	97		75-125			0.44 J	0.81 J	58* (1)	20
Batch number: 11173102201A	Sample number(s): 6314462-6314469 UNSPK: 6314462 BKG: 6314462								
17a Cyanide by 9012B	94		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11174621202A	Sample number(s): 6314462-6314471 UNSPK: 6314462 BKG: 6314462								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11174621202B	Sample number(s): 6314472-6314473 UNSPK: 6314472 BKG: 6314472								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11175621201A	Sample number(s): 6314462-6314471 UNSPK: 6314462 BKG: 6314462								
11a Anions by 300.0 - Fluoride	69*		80-120			6.0	5.8	3	20
11a Anions by 300.0 - Nitrate	90		80-120			1.4 J	1.0 J	27* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11175621201B	Sample number(s): 6314472-6314473					UNSPK: 6314472	BKG: 6314472		
11a Anions by 300.0 - Fluoride	74*		80-120			4.6	6.7	36* (1)	20
Batch number: 11167039401B	Sample number(s): 6314462-6314467					BKG: P313371			
18a pH by 9045C						8.09	8.07	0	3
Batch number: 11167039402A	Sample number(s): 6314468-6314473					BKG: 6314468			
18a pH by 9045C						8.15	8.17	0	3
Batch number: 11168162401A	Sample number(s): 6314470-6314471					BKG: 6314471			
Moisture Content by 160.3						16.3	16.2	0	20
Batch number: 11168162401B	Sample number(s): 6314472-6314473					BKG: P316985			
Moisture Content by 160.3						10.3	9.9	5	20
Batch number: 11180162401A	Sample number(s): 6314462-6314469					BKG: 6314468			
Moisture Content by 160.3						10.8	10	8	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6314462	105	109	100	97
6314463	102	101	102	96
6314464	103	101	102	94
6314465	106	108	99	97
6314466	105	103	99	95
6314467	106	110	98	97
6314468	104	103	100	94
6314469	105	100	100	95
6314470	106	105	99	95
6314472	109	110	97	95
Blank	104	110	99	98
LCS	104	106	103	103
LCSD	101	98	104	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111671AA

	Toluene-d8
6314474	101
Blank	101
LCS	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Surrogate Quality Control

LCSD	101			
Limits:	80-120			

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111681AA

	Toluene-d8
6314462	98
6314463	99
6314464	98
6314465	99
6314466	98
6314467	98
6314468	98
6314469	99
6314470	99
6314472	98
Blank	99
LCS	99
LCSD	99
MS	98
MSD	98
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6314474	104	102	101	98
Blank	103	103	101	97
LCS	106	101	101	100
LCSD	105	104	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 15a NDMA by 1625C
Batch number: 11171SLF026

	N-Nitrosodimethylamine-d6
6314462	101
6314463	97
6314464	88
6314465	84
6314466	81
6314467	92
6314469	113
Blank	124
LCS	111
MS	95
MSD	94
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Surrogate Quality Control

Batch number: 11171SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6314462	79	81	83	79	82	88
6314463	81	80	78	78	81	95
6314464	74	71	78	67	69	87
6314465	68	64	72	63	63	84
6314466	73	72	77	70	74	85
6314467	70	66	73	62	67	83
6314468	73	73	77	73	79	85
6314469	74	74	84	76	80	89
6314470	74	74	77	72	75	85
6314471	73	74	76	69	73	88
6314472	68	69	75	69	76	82
Blank	73	76	81	81	88	86
LCS	84	87	86	87	92	91
MS	80	85	83	88	94	91
MSD	85	88	86	89	95	91
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11172SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6314462	96	78	84
6314463	99	81	89
6314464	95	74	84
6314465	82	50	85
6314466	91	73	82
6314467	91	61	95
6314468	97	78	92
6314469	94	76	94
6314470	89	57	94
6314471	94	76	88
6314472	98	79	91
6314473	94	74	89
Blank	28*	25*	27*
LCS	102	83	93
MS	99	80	85
MSD	92	73	75
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11172SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6314473	75	74	85	72	75	85
Blank	84	86	88	87	89	86
LCS	90	94	92	93	91	90
MS	88	88	90	88	91	90
MSD	88	88	91	90	88	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Surrogate Quality Control

Batch number: 11181SLA026

	N-Nitrosodimethylamine-d6
6314468	65
Blank	75
LCS	72
MS	72
MSD	77
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11166B34A

	Trifluorotoluene-F
6314462	76
6314463	78
6314464	78
6314465	77
6314466	106
6314467	79
6314468	104
6314469	80
Blank	83
LCS	89
MS	81
MSD	73
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11173A20A

	Trifluorotoluene-F
6314474	87
Blank	86
LCS	120
LCSD	126
Limits:	63-135

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111710005A

	Butyraldehyde
6314462	111
6314463	103
6314464	109
6314465	67
6314466	82
6314467	98
6314468	70
6314469	87
Blank	106
LCS	107
MS	127*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Surrogate Quality Control

MSD	118
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111710007A

	2-Nitro-m-xylene
6314462	112
6314463	129
6314464	122
6314465	118
6314466	125
6314467	127
6314468	122
6314469	113
Blank	118
LCS	120
LCSD	116
MS	121
MSD	113
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111780018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6314462	72	78
6314463	88	85
6314464	75	72
6314465	72	80
6314466	81	89
6314467	65	73
6314468	71	73
6314469	75	89
6314470	71	88
6314471	88	92
6314472	73	74
6314473	87	93
Blank	94	107
LCS	91	106
LCSD	85	101
MS	77	79
MSD	83	90
Limits:	53-139	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 111650034A

	Acetone
6314462	73
6314463	77
6314464	76
6314465	80
6314466	82

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Surrogate Quality Control

6314467	81
6314468	79
6314469	78
Blank	93
LCS	91
MS	77
MSD	80

Limits: 42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111670001A

	Tetramethylene glycol
6314462	88
6314463	87
6314464	91
6314465	94
6314466	89
6314467	92
6314468	94
6314469	99
Blank	83
LCS	91
MS	95
MSD	94

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111720008A

	n-Triacontane-d62
6314462	123
6314463	88
6314464	99
6314465	89
6314466	92
6314467	96
6314468	88
6314469	90
Blank	93
LCS	92
MS	97
MSD	108

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111720037A

	Chlorobenzene	Orthoterphenyl
6314462	58	77
6314463	82	93
6314464	86	95
6314465	83	94
6314466	70	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251242
Reported: 07/11/11 at 03:37 PM

Surrogate Quality Control

6314467	75	99
6314468	76	85
6314469	67	84
Blank	86	95
LCS	88	98
MS	92	116
MSD	87	102
Limits:	37-125	47-145

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13013/1251242/6314462-74

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: 6-13-11

						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8650 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-042-SA5DN-SB-4.5	06.13.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-042-SA5DN-SB-4.0-5.0	06.13.11	1100	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-042-SA5DN-SB-9.5	06.13.11	1105	SOIL	NONE	5-Encores										X	X	X										
SL-042-SA5DN-SB-9.0-10.0	06.13.11	1110	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-043-SA5DN-SB-4.5	06.13.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-043-SA5DN-SB-4.0-5.0	06.13.11	1155	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-043-SA5DN-SB-9.5	06.13.11	1200	SOIL	NONE	5-Encores										X	X	X										
SL-043-SA5DN-SB-9.0-10.0	06.13.11	1205	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SB-4.5	06.13.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-046-SA5DN-SB-4.0-5.0	06.13.11	0950	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SB-9.5	06.13.11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-046-SA5DN-SB-9.0-10.0	06.13.11	1000	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SB-4.5	06.13.11	0855	SOIL	NONE	5-Encores										X	X	X										
SL-047-SA5DN-SB-4.0-5.0	06.13.11	0900	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SB-10.5	06.13.11	0905	SOIL	NONE	5-Encores										X	X	X										
SL-047-SA5DN-SB-10.0-11.0	06.13.11	0910	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-054-SA5DN-SB-4.5	06.13.11	1505	SOIL	NONE	4-Encores										X	X											
SL-054-SA5DN-SB-4.0-5.0	06.13.11	1510	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-054-SA5DN-SB-9.0-10.0	06.13.11	1515	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-202-SA5DN-SB-4.5	06.13.11	1415	SOIL	NONE	4-Encores										X	X											
SL-202-SA5DN-SB-4.0-5.0	06.13.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-202-SA5DN-SB-9.0-10.0	06.13.11	1425	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
TB-061311	06.13.11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/13/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	6/14/11 0025	8754 3340 0600, 0611	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/14/2011
Group Number: 1251246
SDG: DX101
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-042-SA5DN-SB-4.0-5.0 Soil	6314489
SL-042-SA5DN-SB-9.0-10.0 Soil	6314490
SL-043-SA5DN-SB-4.0-5.0 Soil	6314491
SL-043-SA5DN-SB-9.0-10.0 Soil	6314492
SL-046-SA5DN-SB-4.0-5.0 Soil	6314493
SL-046-SA5DN-SB-9.0-10.0 Soil	6314494

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314489
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4245 SDG#: DX101-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314489
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4245 SDG#: DX101-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0594	JBQ	0.0265	1.15	1
11031	12378-PeCDD	40321-76-4	0.249	JB	0.0302	5.77	1
11031	123478-HxCDD	39227-28-6	0.276	J	0.0594	5.77	1
11031	123678-HxCDD	57653-85-7	1.28	JB	0.0590	5.77	1
11031	123789-HxCDD	19408-74-3	0.562	JB	0.0573	5.77	1
11031	1234678-HpCDD	35822-46-9	58.4	B	0.0919	5.77	1
11031	OCDD	3268-87-9	750	B	0.110	11.5	1
11031	2378-TCDF	51207-31-9	0.0863	J	0.0450	1.15	1
11031	12378-PeCDF	57117-41-6	0.386	JB	0.0177	5.77	1
11031	23478-PeCDF	57117-31-4	0.363	JB	0.0193	5.77	1
11031	123478-HxCDF	70648-26-9	0.229	JB	0.0337	5.77	1
11031	123678-HxCDF	57117-44-9	0.207	JB	0.0262	5.77	1
11031	123789-HxCDF	72918-21-9	0.243	JB	0.0441	5.77	1
11031	234678-HxCDF	60851-34-5	0.236	JB	0.0314	5.77	1
11031	1234678-HpCDF	67562-39-4	2.44	JB	0.0258	5.77	1
11031	1234789-HpCDF	55673-89-7	0.282	JB	0.0550	5.77	1
11031	OCDF	39001-02-0	7.22	JB	0.0535	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314489
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4245 SDG#: DX101-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314489
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4245 SDG#: DX101-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 07:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314490
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4291 SDG#: DX101-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314490
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4291 SDG#: DX101-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0660	JB	0.0327	1.09	1
11031	12378-PeCDD	40321-76-4	0.310	JB	0.0351	5.46	1
11031	123478-HxCDD	39227-28-6	0.221	J	0.0503	5.46	1
11031	123678-HxCDD	57653-85-7	0.633	JB	0.0501	5.46	1
11031	123789-HxCDD	19408-74-3	0.349	JB	0.0488	5.46	1
11031	1234678-HpCDD	35822-46-9	23.6	B	0.0878	5.46	1
11031	OCDD	3268-87-9	322	B	0.0821	10.9	1
11031	2378-TCDF	51207-31-9	0.143	J	0.0670	1.09	1
11031	12378-PeCDF	57117-41-6	0.418	JB	0.0248	5.46	1
11031	23478-PeCDF	57117-31-4	0.432	JB	0.0252	5.46	1
11031	123478-HxCDF	70648-26-9	0.314	JB	0.0386	5.46	1
11031	123678-HxCDF	57117-44-9	0.258	JBQ	0.0323	5.46	1
11031	123789-HxCDF	72918-21-9	0.258	JBQ	0.0488	5.46	1
11031	234678-HxCDF	60851-34-5	0.222	JBQ	0.0355	5.46	1
11031	1234678-HpCDF	67562-39-4	1.03	JB	0.0293	5.46	1
11031	1234789-HpCDF	55673-89-7	0.173	JBQ	0.0536	5.46	1
11031	OCDF	39001-02-0	2.93	JB	0.0523	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-042-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314490
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4291 SDG#: DX101-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314490
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:10

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4291 SDG#: DX101-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 08:18	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314491
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4345 SDG#: DX101-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314491
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4345 SDG#: DX101-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0359	JBQ	0.0230	1.13	1
11031	12378-PeCDD	40321-76-4	0.151	JB	0.0257	5.67	1
11031	123478-HxCDD	39227-28-6	0.104	J	0.0424	5.67	1
11031	123678-HxCDD	57653-85-7	0.663	JB	0.0443	5.67	1
11031	123789-HxCDD	19408-74-3	0.319	JB	0.0428	5.67	1
11031	1234678-HpCDD	35822-46-9	34.9	B	0.0801	5.67	1
11031	OCDD	3268-87-9	473	B	0.0836	11.3	1
11031	2378-TCDF	51207-31-9	0.0315	U	0.0315	1.13	1
11031	12378-PeCDF	57117-41-6	0.171	JB	0.0142	5.67	1
11031	23478-PeCDF	57117-31-4	0.224	JBQ	0.0148	5.67	1
11031	123478-HxCDF	70648-26-9	0.159	JBQ	0.0296	5.67	1
11031	123678-HxCDF	57117-44-9	0.144	JB	0.0251	5.67	1
11031	123789-HxCDF	72918-21-9	0.242	JB	0.0310	5.67	1
11031	234678-HxCDF	60851-34-5	0.141	JB	0.0268	5.67	1
11031	1234678-HpCDF	67562-39-4	1.44	JB	0.0266	5.67	1
11031	1234789-HpCDF	55673-89-7	0.177	JBQ	0.0519	5.67	1
11031	OCDF	39001-02-0	3.86	JB	0.0424	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-043-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314491
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4345 SDG#: DX101-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-043-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314491
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 11:55

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4345 SDG#: DX101-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 09:15	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314492
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4391 SDG#: DX101-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314492
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4391 SDG#: DX101-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0305 JBQ	0.0269	1.12	1
11031	12378-PeCDD	40321-76-4	0.0253 U	0.0253	5.58	1
11031	123478-HxCDD	39227-28-6	0.0188 U	0.0188	5.58	1
11031	123678-HxCDD	57653-85-7	0.0189 U	0.0189	5.58	1
11031	123789-HxCDD	19408-74-3	0.0240 JBQ	0.0191	5.58	1
11031	1234678-HpCDD	35822-46-9	0.473 JB	0.0312	5.58	1
11031	OCDD	3268-87-9	2.53 JB	0.0276	11.2	1
11031	2378-TCDF	51207-31-9	0.0263 U	0.0263	1.12	1
11031	12378-PeCDF	57117-41-6	0.0227 JBQ	0.0125	5.58	1
11031	23478-PeCDF	57117-31-4	0.0749 JBQ	0.0132	5.58	1
11031	123478-HxCDF	70648-26-9	0.0328 JBQ	0.0131	5.58	1
11031	123678-HxCDF	57117-44-9	0.0135 JBQ	0.00964	5.58	1
11031	123789-HxCDF	72918-21-9	0.0198 JBQ	0.0154	5.58	1
11031	234678-HxCDF	60851-34-5	0.0558 JB	0.0118	5.58	1
11031	1234678-HpCDF	67562-39-4	0.104 JB	0.00769	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0447 JBQ	0.0200	5.58	1
11031	OCDF	39001-02-0	0.192 JB	0.0553	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314492
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4391 SDG#: DX101-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-043-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314492
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 12:05

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4391 SDG#: DX101-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 10:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314493
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4645 SDG#: DX101-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314493
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4645 SDG#: DX101-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0242 JBQ	0.0225	1.12	1
11031	12378-PeCDD	40321-76-4	0.0217 U	0.0217	5.60	1
11031	123478-HxCDD	39227-28-6	0.0323 J	0.0214	5.60	1
11031	123678-HxCDD	57653-85-7	0.0826 JB	0.0218	5.60	1
11031	123789-HxCDD	19408-74-3	0.0898 JBQ	0.0217	5.60	1
11031	1234678-HpCDD	35822-46-9	0.851 JB	0.0351	5.60	1
11031	OCDD	3268-87-9	7.30 JB	0.0286	11.2	1
11031	2378-TCDF	51207-31-9	0.0212 U	0.0212	1.12	1
11031	12378-PeCDF	57117-41-6	0.0323 JB	0.00913	5.60	1
11031	23478-PeCDF	57117-31-4	0.0749 JBQ	0.00994	5.60	1
11031	123478-HxCDF	70648-26-9	0.0469 JB	0.0132	5.60	1
11031	123678-HxCDF	57117-44-9	0.0268 JBQ	0.0101	5.60	1
11031	123789-HxCDF	72918-21-9	0.106 JBQ	0.0146	5.60	1
11031	234678-HxCDF	60851-34-5	0.0743 JBQ	0.0121	5.60	1
11031	1234678-HpCDF	67562-39-4	0.166 JB	0.00832	5.60	1
11031	1234789-HpCDF	55673-89-7	0.122 JBQ	0.0187	5.60	1
11031	OCDF	39001-02-0	0.421 JB	0.0454	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314493
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4645 SDG#: DX101-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314493
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:50

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4645 SDG#: DX101-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 14:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314494
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4691 SDG#: DX101-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-046-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314494
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4691 SDG#: DX101-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0273	U	0.0273	1.11	1
11031	12378-PeCDD	40321-76-4	0.0251	U	0.0251	5.53	1
11031	123478-HxCDD	39227-28-6	0.0231	JQ	0.0217	5.53	1
11031	123678-HxCDD	57653-85-7	0.0554	JBQ	0.0211	5.53	1
11031	123789-HxCDD	19408-74-3	0.0486	JB	0.0201	5.53	1
11031	1234678-HpCDD	35822-46-9	0.659	JBQ	0.0370	5.53	1
11031	OCDD	3268-87-9	4.70	JB	0.0302	11.1	1
11031	2378-TCDF	51207-31-9	0.0222	U	0.0222	1.11	1
11031	12378-PeCDF	57117-41-6	0.0126	JBQ	0.0116	5.53	1
11031	23478-PeCDF	57117-31-4	0.0831	JB	0.0115	5.53	1
11031	123478-HxCDF	70648-26-9	0.0331	JBQ	0.0128	5.53	1
11031	123678-HxCDF	57117-44-9	0.0296	JBQ	0.0101	5.53	1
11031	123789-HxCDF	72918-21-9	0.0138	U	0.0138	5.53	1
11031	234678-HxCDF	60851-34-5	0.0523	JBQ	0.0106	5.53	1
11031	1234678-HpCDF	67562-39-4	0.147	JBQ	0.00847	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0833	JB	0.0195	5.53	1
11031	OCDF	39001-02-0	0.260	JB	0.0528	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314494
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4691 SDG#: DX101-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314494
LLI Group # 1251246
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 10:00

Submitted: 06/14/2011 10:05
Reported: 07/12/2011 22:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4691 SDG#: DX101-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11189001	07/11/2011 15:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	4	11189001	07/08/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251246
Reported: 07/12/11 at 10:00 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11180162401A	Sample number(s): 6314489-6314494								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11189001	Sample number(s): 6314489-6314494								
2378-TCDD	0.0484 J	0.0301	1.00	ng/kg	97		67-158		
12378-PeCDD	0.0813 J	0.0259	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0201 U	0.0201	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0652 J	0.0198	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0708 J	0.0192	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.430 J	0.0268	5.00	ng/kg	90		70-140		
OCDD	1.02 J	0.0189	10.0	ng/kg	92		78-144		
2378-TCDF	0.0249 U	0.0249	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0348 J	0.0107	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0794 J	0.0117	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0625 J	0.0163	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0628 J	0.0125	5.00	ng/kg	89		84-130		
123789-HxCDF	0.0946 J	0.0175	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0912 J	0.0141	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.145 J	0.0105	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0985 J	0.0187	5.00	ng/kg	93		78-138		
OCDF	0.388 J	0.0375	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11180162401A	Sample number(s): 6314489-6314494					BKG: P314468			
Moisture Content by 160.3						10.8	10	8	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251246
Reported: 07/12/11 at 10:00 PM

Surrogate Quality Control

Batch number: 11189001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6314489	74	70	64	82	66	56
6314490	73	73	66	77	69	62
6314491	87	80	72	84	77	78
6314492	65	67	60	78	64	59
6314493	78	74	64	83	71	69
6314494	74	70	62	77	70	66
Blank	67	69	65	81	71	66
OPR	67	67	61	77	64	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6314489	88	55	52	76	78	80
6314490	92	63	63	78	80	81
6314491	102	65	59	83	89	89
6314492	102	50	45	73	77	80
6314493	100	57	52	75	80	86
6314494	101	53	47	76	82	83
Blank	89	63	60	74	80	83
OPR	93	54	54	74	77	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6314489	77	78	75	68	84
6314490	78	84	86	71	80
6314491	87	90	85	82	94
6314492	78	83	79	63	78
6314493	82	85	80	73	88
6314494	84	85	79	69	79
Blank	82	83	79	64	83
OPR	78	83	80	61	78
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013/125124G/G-314489-94

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores																						
SL-042-SA5DN-SB-4.5	06.13.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-042-SA5DN-SB-4.0-5.0	06.13.11	1100	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-042-SA5DN-SB-9.5	06.13.11	1105	SOIL	NONE	5-Encores										X	X	X										
SL-042-SA5DN-SB-9.0-10.0	06.13.11	1110	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-043-SA5DN-SB-4.5	06.13.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-043-SA5DN-SB-4.0-5.0	06.13.11	1155	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-043-SA5DN-SB-9.5	06.13.11	1200	SOIL	NONE	5-Encores										X	X	X										
SL-043-SA5DN-SB-9.0-10.0	06.13.11	1205	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SB-4.5	06.13.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-046-SA5DN-SB-4.0-5.0	06.13.11	0950	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SB-9.5	06.13.11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-046-SA5DN-SB-9.0-10.0	06.13.11	1000	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SB-4.5	06.13.11	0855	SOIL	NONE	5-Encores										X	X	X										
SL-047-SA5DN-SB-4.0-5.0	06.13.11	0900	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SB-10.5	06.13.11	0905	SOIL	NONE	5-Encores										X	X	X										
SL-047-SA5DN-SB-10.0-11.0	06.13.11	0910	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-054-SA5DN-SB-4.5	06.13.11	1505	SOIL	NONE	4-Encores										X	X											
SL-054-SA5DN-SB-4.0-5.0	06.13.11	1510	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-054-SA5DN-SB-9.0-10.0	06.13.11	1515	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-202-SA5DN-SB-4.5	06.13.11	1415	SOIL	NONE	4-Encores										X	X											
SL-202-SA5DN-SB-4.0-5.0	06.13.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-202-SA5DN-SB-9.0-10.0	06.13.11	1425	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
TB-061311	06.13.11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/13/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	6/14/11 0005	8754 3340 0600, 0611	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

June 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/14/2011
Group Number: 1251251
SDG: DX102
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-047-SA5DN-SB-4.0-5.0 Soil	6314508
SL-047-SA5DN-SB-10.0-11.0 Soil	6314509
SL-054-SA5DN-SB-4.0-5.0 Soil	6314510
SL-054-SA5DN-SB-9.0-10.0 Soil	6314511
SL-202-SA5DN-SB-4.0-5.0 Soil	6314512
SL-202-SA5DN-SB-9.0-10.0 Soil	6314513

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314508
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4745 SDG#: DX102-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314508
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4745 SDG#: DX102-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0168 U	0.0168	1.12	1
11031	12378-PeCDD	40321-76-4	0.0172 U	0.0172	5.61	1
11031	123478-HxCDD	39227-28-6	0.0676 JB	0.0269	5.61	1
11031	123678-HxCDD	57653-85-7	0.145 JB	0.0272	5.61	1
11031	123789-HxCDD	19408-74-3	0.166 JBQ	0.0258	5.61	1
11031	1234678-HpCDD	35822-46-9	2.02 JB	0.0269	5.61	1
11031	OCDD	3268-87-9	16.0 B	0.0262	11.2	1
11031	2378-TCDF	51207-31-9	0.0168 U	0.0168	1.12	1
11031	12378-PeCDF	57117-41-6	0.0379 JBQ	0.00841	5.61	1
11031	23478-PeCDF	57117-31-4	0.0540 JBQ	0.00830	5.61	1
11031	123478-HxCDF	70648-26-9	0.0497 JBQ	0.0126	5.61	1
11031	123678-HxCDF	57117-44-9	0.0433 JB	0.0112	5.61	1
11031	123789-HxCDF	72918-21-9	0.0918 JB	0.0139	5.61	1
11031	234678-HxCDF	60851-34-5	0.0429 JBQ	0.0118	5.61	1
11031	1234678-HpCDF	67562-39-4	0.192 JBQ	0.0123	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0595 JBQ	0.0178	5.61	1
11031	OCDF	39001-02-0	0.448 JB	0.0253	11.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	74	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314508
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4745 SDG#: DX102-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314508
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:00

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4745 SDG#: DX102-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/28/2011 19:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314509
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX102-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314509
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX102-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0203 U	0.0203	1.05	1
11031	12378-PeCDD	40321-76-4	0.0203 JBQ	0.0177	5.27	1
11031	123478-HxCDD	39227-28-6	0.0324 JBQ	0.0193	5.27	1
11031	123678-HxCDD	57653-85-7	0.0732 JBQ	0.0191	5.27	1
11031	123789-HxCDD	19408-74-3	0.0783 JB	0.0182	5.27	1
11031	1234678-HpCDD	35822-46-9	1.18 JB	0.0229	5.27	1
11031	OCDD	3268-87-9	11.1 B	0.0181	10.5	1
11031	2378-TCDF	51207-31-9	0.0191 U	0.0191	1.05	1
11031	12378-PeCDF	57117-41-6	0.00847 U	0.00847	5.27	1
11031	23478-PeCDF	57117-31-4	0.0497 JBQ	0.00868	5.27	1
11031	123478-HxCDF	70648-26-9	0.0313 JBQ	0.00943	5.27	1
11031	123678-HxCDF	57117-44-9	0.0290 JBQ	0.00847	5.27	1
11031	123789-HxCDF	72918-21-9	0.0544 JB	0.0104	5.27	1
11031	234678-HxCDF	60851-34-5	0.0368 JBQ	0.00857	5.27	1
11031	1234678-HpCDF	67562-39-4	0.125 JBQ	0.00879	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0460 JBQ	0.0135	5.27	1
11031	OCDF	39001-02-0	0.435 JB	0.0228	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	86	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA5DN-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314509
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX102-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-047-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA5DN-SB-10.0-11.0

LLI Sample # SW 6314509
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 09:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX102-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/28/2011 20:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314510
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5445 SDG#: DX102-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314510
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5445 SDG#: DX102-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0213 U	0.0213	1.21	1
11031	12378-PeCDD	40321-76-4	0.0470 JBQ	0.0205	6.05	1
11031	123478-HxCDD	39227-28-6	0.0281 JB	0.0222	6.05	1
11031	123678-HxCDD	57653-85-7	0.144 JB	0.0223	6.05	1
11031	123789-HxCDD	19408-74-3	0.161 JB	0.0216	6.05	1
11031	1234678-HpCDD	35822-46-9	2.20 JB	0.0252	6.05	1
11031	OCDD	3268-87-9	45.5 B	0.0288	12.1	1
11031	2378-TCDF	51207-31-9	0.0200 U	0.0200	1.21	1
11031	12378-PeCDF	57117-41-6	0.0341 JBQ	0.00945	6.05	1
11031	23478-PeCDF	57117-31-4	0.0695 JB	0.00945	6.05	1
11031	123478-HxCDF	70648-26-9	0.0525 JB	0.0105	6.05	1
11031	123678-HxCDF	57117-44-9	0.0370 JB	0.00921	6.05	1
11031	123789-HxCDF	72918-21-9	0.115 JB	0.0126	6.05	1
11031	234678-HxCDF	60851-34-5	0.0426 JB	0.00994	6.05	1
11031	1234678-HpCDF	67562-39-4	0.215 JB	0.00873	6.05	1
11031	1234789-HpCDF	55673-89-7	0.0645 JBQ	0.0149	6.05	1
11031	OCDF	39001-02-0	0.754 JB	0.0227	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314510
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5445 SDG#: DX102-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-054-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314510
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:10

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5445 SDG#: DX102-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/28/2011 21:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314511
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5490 SDG#: DX102-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-054-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314511
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5490 SDG#: DX102-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0247 U	0.0247	1.18	1
11031	12378-PeCDD	40321-76-4	0.0195 U	0.0195	5.91	1
11031	123478-HxCDD	39227-28-6	0.0246 JB	0.0180	5.91	1
11031	123678-HxCDD	57653-85-7	0.0419 JBQ	0.0178	5.91	1
11031	123789-HxCDD	19408-74-3	0.0676 JBQ	0.0178	5.91	1
11031	1234678-HpCDD	35822-46-9	0.905 JB	0.0244	5.91	1
11031	OCDD	3268-87-9	7.71 JB	0.0182	11.8	1
11031	2378-TCDF	51207-31-9	0.0210 U	0.0210	1.18	1
11031	12378-PeCDF	57117-41-6	0.0347 JB	0.0116	5.91	1
11031	23478-PeCDF	57117-31-4	0.0425 JBQ	0.0105	5.91	1
11031	123478-HxCDF	70648-26-9	0.0414 JBQ	0.00920	5.91	1
11031	123678-HxCDF	57117-44-9	0.0214 JB	0.00836	5.91	1
11031	123789-HxCDF	72918-21-9	0.0373 JBQ	0.0102	5.91	1
11031	234678-HxCDF	60851-34-5	0.0232 JBQ	0.00836	5.91	1
11031	1234678-HpCDF	67562-39-4	0.0713 JBQ	0.00860	5.91	1
11031	1234789-HpCDF	55673-89-7	0.0297 JBQ	0.0130	5.91	1
11031	OCDF	39001-02-0	0.210 JB	0.0201	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	91	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314511
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5490 SDG#: DX102-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-054-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314511
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 15:15

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5490 SDG#: DX102-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/28/2011 22:03	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401A	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314512
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2024 SDG#: DX102-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	17.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314512
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2024 SDG#: DX102-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0328 U	0.0328	1.20	1
11031	12378-PeCDD	40321-76-4	0.0282 U	0.0282	5.99	1
11031	123478-HxCDD	39227-28-6	0.0201 U	0.0201	5.99	1
11031	123678-HxCDD	57653-85-7	0.0576 JBQ	0.0197	5.99	1
11031	123789-HxCDD	19408-74-3	0.104 JBQ	0.0199	5.99	1
11031	1234678-HpCDD	35822-46-9	0.903 JB	0.0310	5.99	1
11031	OCDD	3268-87-9	8.40 JB	0.0258	12.0	1
11031	2378-TCDF	51207-31-9	0.0312 U	0.0312	1.20	1
11031	12378-PeCDF	57117-41-6	0.0280 JBQ	0.0133	5.99	1
11031	23478-PeCDF	57117-31-4	0.0123 U	0.0123	5.99	1
11031	123478-HxCDF	70648-26-9	0.0269 JBQ	0.0115	5.99	1
11031	123678-HxCDF	57117-44-9	0.0228 JBQ	0.0101	5.99	1
11031	123789-HxCDF	72918-21-9	0.0802 JBQ	0.0124	5.99	1
11031	234678-HxCDF	60851-34-5	0.0265 JBQ	0.0104	5.99	1
11031	1234678-HpCDF	67562-39-4	0.0802 JB	0.00941	5.99	1
11031	1234789-HpCDF	55673-89-7	0.0151 U	0.0151	5.99	1
11031	OCDF	39001-02-0	0.191 JBQ	0.0285	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	78	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-202-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314512
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2024 SDG#: DX102-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-4.0-5.0

LLI Sample # SW 6314512
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:20

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2024 SDG#: DX102-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/28/2011 22:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314513
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2029 SDG#: DX102-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314513
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2029 SDG#: DX102-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0626	JBQ	0.0213	1.15	1
11031	12378-PeCDD	40321-76-4	0.225	JB	0.0227	5.77	1
11031	123478-HxCDD	39227-28-6	0.127	JBQ	0.0210	5.77	1
11031	123678-HxCDD	57653-85-7	0.129	JBQ	0.0203	5.77	1
11031	123789-HxCDD	19408-74-3	0.156	JBQ	0.0199	5.77	1
11031	1234678-HpCDD	35822-46-9	0.755	JB	0.0240	5.77	1
11031	OCDD	3268-87-9	5.76	JB	0.0199	11.5	1
11031	2378-TCDF	51207-31-9	0.0527	JB	0.0195	1.15	1
11031	12378-PeCDF	57117-41-6	0.244	JB	0.0109	5.77	1
11031	23478-PeCDF	57117-31-4	0.229	JBQ	0.0106	5.77	1
11031	123478-HxCDF	70648-26-9	0.174	JB	0.0142	5.77	1
11031	123678-HxCDF	57117-44-9	0.155	JB	0.0123	5.77	1
11031	123789-HxCDF	72918-21-9	0.119	JB	0.0155	5.77	1
11031	234678-HxCDF	60851-34-5	0.115	JB	0.0127	5.77	1
11031	1234678-HpCDF	67562-39-4	0.136	JB	0.00823	5.77	1
11031	1234789-HpCDF	55673-89-7	0.0805	JB	0.0130	5.77	1
11031	OCDF	39001-02-0	0.251	JB	0.0237	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-202-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314513
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2029 SDG#: DX102-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-202-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-202-SA5DN-SB-9.0-10.0

LLI Sample # SW 6314513
LLI Group # 1251251
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/13/2011 14:25

Submitted: 06/14/2011 10:05
Reported: 06/30/2011 11:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X2029 SDG#: DX102-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/28/2011 23:56	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251251
Reported: 06/30/11 at 11:01 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11168162401A	Sample number(s): 6314510-6314511								
Moisture Content by 160.3					100		80-120		
Batch number: 11168162401B	Sample number(s): 6314512-6314513								
Moisture Content by 160.3					100		80-120		
Batch number: 11180162401A	Sample number(s): 6314508-6314509								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11178002	Sample number(s): 6314508-6314513								
2378-TCDD	0.0358 J	0.0176	1.00	ng/kg	94		67-158		
12378-PeCDD	0.0516 J	0.0163	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0637 J	0.0207	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0721 J	0.0211	5.00	ng/kg	94		76-134		
123789-HxCDD	0.107 J	0.0205	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.456 J	0.0289	5.00	ng/kg	93		70-140		
OCDD	1.07 J	0.0177	10.0	ng/kg	92		78-144		
2378-TCDF	0.0243 J	0.0182	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0427 J	0.00800	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0735 J	0.00810	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0727 J	0.0124	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0592 J	0.0111	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0980 J	0.0150	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0541 J	0.0119	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.123 J	0.0102	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.132 J	0.0157	5.00	ng/kg	93		78-138		
OCDF	0.379 J	0.0227	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11168162401A	Sample number(s): 6314510-6314511					BKG: P314471			
Moisture Content by 160.3						16.3	16.2	0	20
Batch number: 11168162401B	Sample number(s): 6314512-6314513					BKG: P316985			
Moisture Content by 160.3						10.3	9.9	5	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251251
Reported: 06/30/11 at 11:01 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11180162401A	Sample number(s): 6314508-6314509					BKG: P314468			
Moisture Content by 160.3						10.8	10	8	20
Batch number: 11178002	Sample number(s): 6314508-6314513					UNSPK: P315648			
2378-TCDD	95	93	67-158	3	25				
12378-PeCDD	95	100	70-142	4	25				
123478-HxCDD	96	98	70-164	0	25				
123678-HxCDD	94	95	76-134	0	25				
123789-HxCDD	94	94	64-162	1	25				
1234678-HpCDD	92	101	70-140	8	25				
OCDD	90	125	78-144	30*	25				
2378-TCDF	93	93	75-158	1	25				
12378-PeCDF	96	97	80-134	0	25				
23478-PeCDF	92	97	68-160	4	25				
123478-HxCDF	93	93	72-134	1	25				
123678-HxCDF	93	93	84-130	1	25				
123789-HxCDF	91	90	78-130	2	25				
234678-HxCDF	93	93	70-156	2	25				
1234678-HpCDF	91	92	82-122	0	25				
1234789-HpCDF	94	93	78-138	2	25				
OCDF	92	94	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11178002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6314508	74	75	76	82	77	75
6314509	73	80	76	82	78	77
6314510	67	77	70	79	72	68
6314511	73	88	81	88	81	79
6314512	63	72	71	80	73	70
6314513	65	71	70	79	73	70
Blank	73	82	77	84	80	76
MS	64	76	67	74	75	72
MSD	73	77	88	97	94	94
OPR	60	63	58	63	63	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6314508	87	75	74	85	74	81
6314509	105	82	86	85	81	82

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251251
Reported: 06/30/11 at 11:01 AM

Surrogate Quality Control

6314510	99	73	78	82	79	78
6314511	106	85	91	84	90	87
6314512	97	73	78	76	72	78
6314513	93	70	71	75	70	77
Blank	104	81	87	94	86	89
MS	91	80	88	74	76	77
MSD	113	98	109	80	70	95
OPR	75	63	63	74	63	67
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6314508	82	81	85	84	74	79
6314509	84	84	95	104	72	86
6314510	78	78	88	96	65	82
6314511	89	87	99	106	72	90
6314512	79	78	87	93	61	76
6314513	78	77	83	84	64	75
Blank	89	88	97	103	67	86
MS	78	77	87	98	64	78
MSD	97	96	106	117	75	81
OPR	68	69	72	73	59	65
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 / 125125 / 6314508-13

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures: [signature] 6-13-11

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	5-Encores	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphanyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-042-SA5DN-SB-4.5	06.13.11	1055	SOIL	NONE	5-Encores										X	X	X										
SL-042-SA5DN-SB-4.0-5.0	06.13.11	1100	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-042-SA5DN-SB-9.5	06.13.11	1105	SOIL	NONE	5-Encores										X	X	X										
SL-042-SA5DN-SB-9.0-10.0	06.13.11	1110	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-043-SA5DN-SB-4.5	06.13.11	1150	SOIL	NONE	5-Encores										X	X	X										
SL-043-SA5DN-SB-4.0-5.0	06.13.11	1155	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-043-SA5DN-SB-9.5	06.13.11	1200	SOIL	NONE	5-Encores										X	X	X										
SL-043-SA5DN-SB-9.0-10.0	06.13.11	1205	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SB-4.5	06.13.11	0945	SOIL	NONE	5-Encores										X	X	X										
SL-046-SA5DN-SB-4.0-5.0	06.13.11	0950	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-046-SA5DN-SB-9.5	06.13.11	0955	SOIL	NONE	5-Encores										X	X	X										
SL-046-SA5DN-SB-9.0-10.0	06.13.11	1000	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SB-4.5	06.13.11	0855	SOIL	NONE	5-Encores										X	X	X										
SL-047-SA5DN-SB-4.0-5.0	06.13.11	0900	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-047-SA5DN-SB-10.5	06.13.11	0905	SOIL	NONE	5-Encores										X	X	X										
SL-047-SA5DN-SB-10.0-11.0	06.13.11	0910	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-054-SA5DN-SB-4.5	06.13.11	1505	SOIL	NONE	4-Encores										X	X											
SL-054-SA5DN-SB-4.0-5.0	06.13.11	1510	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-054-SA5DN-SB-9.0-10.0	06.13.11	1515	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-202-SA5DN-SB-4.5	06.13.11	1415	SOIL	NONE	4-Encores										X	X											
SL-202-SA5DN-SB-4.0-5.0	06.13.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
SL-202-SA5DN-SB-9.0-10.0	06.13.11	1425	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X														
TB-061311	06.13.11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
[signature]	06/13/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
[signature]	6/14/11 0025	8754 3340 0600, 0611	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/15/2011
Group Number: 1251483
SDG: DE180
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA5DN-SB-4.0-5.0 Soil	6315631
SL-032-SA5DN-SB-10.0-11.0 Soil	6315632
SL-033-SA5DN-SB-4.0-5.0 Soil	6315633
SL-033-SA5DN-SB-4.0-5.0MS Soil	6315634
SL-033-SA5DN-SB-4.0-5.0MSD Soil	6315635
SL-033-SA5DN-SB-4.0-5.0DUP Soil	6315636
SL-033-SA5DN-SB-11.0-12.0 Soil	6315637
SL-035-SA5DN-SB-4.0-5.0 Soil	6315638
SL-035-SA5DN-SB-9.5-10.5 Soil	6315639
SL-044-SA5DN-SB-4.0-5.0 Soil	6315640
SL-044-SA5DN-SB-12.0-13.0 Soil	6315641
DUP14-SA5DN-QC-061411 Soil	6315642
TB-061411 Water	6315643
EB17-SA5DN-SB-061411 Water	6315644

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18001 SDG#: DE180-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		6.9	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.9
06192	2-Butanone	78-93-3	1.3	U	1.3	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	3.2	J	0.25	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18001 SDG#: DE180-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.9
06192	Toluene	108-88-3	0.31	J	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.33
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	45.9		19.0	38.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

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Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18001 SDG#: DE180-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18001 SDG#: DE180-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.22
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Suite 210
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18001 SDG#: DE180-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,700		6.70	22.1		1
07914	Boron	7440-42-8	2.82	J	0.399	5.54		1
01650	Calcium	7440-70-2	9,080		2.77	22.1		1
01654	Iron	7439-89-6	29,900		5.78	44.3		2
01656	Lithium	7439-93-2	28.3		0.69	2.2		1
01657	Magnesium	7439-95-4	5,970		0.487	11.1		1

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Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18001 SDG#: DE180-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	268		0.0399	0.554		1
10145	Phosphorus	7723-14-0	209		0.387	11.1		1
01662	Potassium	7440-09-7	2,950		12.5	55.4		1
01667	Sodium	7440-23-5	535		6.59	111		1
07968	Strontium	7440-24-6	35.4		0.0277	0.554		1
06969	Tin	7440-31-5	2.84	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,110		0.0810	1.14		1
10146	Zirconium	7440-67-7	5.06	J	0.509	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0872	J	0.0827	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.00		0.0894	0.447		2
06126	Barium	7440-39-3	128		0.118	0.447		2
06127	Beryllium	7440-41-7	0.888		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.154		0.0492	0.112		2
06131	Chromium	7440-47-3	28.9		0.134	0.447		2
06132	Cobalt	7440-48-4	9.65		0.0224	0.112		2
06133	Copper	7440-50-8	12.2		0.0894	0.447		2
06135	Lead	7439-92-1	8.23		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.369		0.0559	0.112		2
06139	Nickel	7440-02-0	16.3		0.112	0.447		2
06141	Selenium	7782-49-2	0.0648	U	0.0648	0.447		2
06142	Silver	7440-22-4	0.104	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.349		0.0335	0.112		2
06148	Vanadium	7440-62-2	52.0		0.0246	0.112		2
06149	Zinc	7440-66-6	55.8		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0265	J	0.0079	0.113		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	20.7		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18001 SDG#: DE180-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.25	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 03:12	Holly Berry	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 17:16	Jason M Long	20.33
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 11:49	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011 11:49	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011 15:05	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011 15:01	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 21:18	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011 07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 20:54	Catherine J Schwarz	21.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 11:48	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 19:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/21/2011 22:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 21:54	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1

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SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
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CDM Federal Programs Corp.
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18001 SDG#: DE180-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/22/2011 22:11	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 01:09	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 18:29	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 01:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:13	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:28	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:01	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 09:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 09:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 09:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 09:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1

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Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315631
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18001 SDG#: DE180-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 20:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 20:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 11:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 09:19	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18002 SDG#: DE180-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.6		6.2	7.5		0.85
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.85
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.85
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.85
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.85
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.85
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.85
06192	2-Butanone	78-93-3	1.1	U	1.1	7.5		0.85
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.85
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.85
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.85
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.85
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.85
06192	Chloroform	67-66-3	0.11	U	0.11	3.7		0.85
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.85
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.85
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.85
06192	Chlorotrifluoroethene	79-38-9	0.47	U	0.47	4.7		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.85
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.85
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.85
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.85
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.85
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.85
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.85
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.85
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.85
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.85
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.85
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.85
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.85
06192	Freon 133a	75-88-7	0.47	U	0.47	4.7		0.85
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.85
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.5		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.85
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.5		0.85
06192	Methylene Chloride	75-09-2	3.2	J	0.22	3.7		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.85

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Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18002 SDG#: DE180-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.7		0.85
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.85
06192	Toluene	108-88-3	0.29	J	0.07	3.7		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.85
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.85
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.85
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.85
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.85
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		22.12
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.2	U	18.2	36.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1

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Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18002 SDG#: DE180-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

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18002 SDG#: DE180-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1

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Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
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Project Name: SSFL Area IV Collocated Soil Sampling

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18002 SDG#: DE180-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	3.2	J	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		6.29	20.8		1
07914	Boron	7440-42-8	0.374	U	0.374	5.20		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18002 SDG#: DE180-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,030		2.60	20.8		1
01654	Iron	7439-89-6	24,200		2.71	20.8		1
01656	Lithium	7439-93-2	22.9		0.64	2.1		1
01657	Magnesium	7439-95-4	4,690		0.457	10.4		1
06958	Manganese	7439-96-5	318		0.0374	0.520		1
10145	Phosphorus	7723-14-0	316		0.364	10.4		1
01662	Potassium	7440-09-7	2,370		11.7	52.0		1
01667	Sodium	7440-23-5	383		6.19	104		1
07968	Strontium	7440-24-6	22.9		0.0260	0.520		1
06969	Tin	7440-31-5	2.65	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,260		0.0760	1.07		1
10146	Zirconium	7440-67-7	3.55	J	0.478	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0792	U	0.0792	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.06		0.0856	0.428		2
06126	Barium	7440-39-3	85.3		0.113	0.428		2
06127	Beryllium	7440-41-7	0.589		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.138		0.0471	0.107		2
06131	Chromium	7440-47-3	20.2		0.128	0.428		2
06132	Cobalt	7440-48-4	5.75		0.0214	0.107		2
06133	Copper	7440-50-8	8.82		0.0856	0.428		2
06135	Lead	7439-92-1	4.07		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.277		0.0535	0.107		2
06139	Nickel	7440-02-0	12.9		0.107	0.428		2
06141	Selenium	7782-49-2	0.0621	U	0.0621	0.428		2
06142	Silver	7440-22-4	0.0409	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.233		0.0321	0.107		2
06148	Vanadium	7440-62-2	39.3		0.0235	0.107		2
06149	Zinc	7440-66-6	48.8		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0361	J	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18002 SDG#: DE180-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.20	U	0.20	0.55		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.46		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	8.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA5DN-SB-10.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011	03:34	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011	17:36	Jason M Long	22.12
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:24	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011	12:25	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011	15:23	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011	15:27	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011	21:49	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011	15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011	07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011	21:30	Catherine J Schwarz	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:24	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011	19:50	James H Place	1

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Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18002 SDG#: DE180-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/21/2011 23:15	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 13:54	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 22:13	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/22/2011 22:36	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 01:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 18:42	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 01:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:13	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:01	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315632
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18002 SDG#: DE180-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 20:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 20:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 12:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 09:25	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201A	06/22/2011 16:40	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201A	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6	U	6.6	7.9		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.33	U	0.33	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.40	U	0.40	3.9		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.33	U	0.33	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.85
06192	Methylene Chloride	75-09-2	3.6	J	0.24	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

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Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.24	J	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.16
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	194	U	194	388		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.99	J	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	8.3	J	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	9.6	J	6.9	21		1
10138	Chrysene	218-01-9	1.1	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.22
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	93	U	93	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

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18003 SDG#: DE180-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
Reporting limits were raised for RDX due to interference from the sample matrix.								
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.8	J	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	1.4	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	25		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.54	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		7.03	23.3		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

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18003 SDG#: DE180-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.35	J	0.419	5.81		1
01650	Calcium	7440-70-2	15,300		2.91	23.3		1
01654	Iron	7439-89-6	30,400		3.03	23.3		1
01656	Lithium	7439-93-2	25.2		0.72	2.3		1
01657	Magnesium	7439-95-4	6,920		0.512	11.6		1
06958	Manganese	7439-96-5	290		0.0419	0.581		1
10145	Phosphorus	7723-14-0	228		0.407	11.6		1
01662	Potassium	7440-09-7	3,130		13.1	58.1		1
01667	Sodium	7440-23-5	416		6.92	116		1
07968	Strontium	7440-24-6	43.7		0.0291	0.581		1
06969	Tin	7440-31-5	3.08	J	0.372	11.6		1
06970	Titanium	7440-32-6	1,240		0.0817	1.15		1
10146	Zirconium	7440-67-7	4.48	J	0.535	5.81		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0937	J	0.0852	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.90		0.0921	0.461		2
06126	Barium	7440-39-3	145		0.122	0.461		2
06127	Beryllium	7440-41-7	0.816		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.288		0.0507	0.115		2
06131	Chromium	7440-47-3	30.0		0.138	0.461		2
06132	Cobalt	7440-48-4	10.9		0.0230	0.115		2
06133	Copper	7440-50-8	14.2		0.0921	0.461		2
06135	Lead	7439-92-1	9.16		0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.321		0.0576	0.115		2
06139	Nickel	7440-02-0	18.4		0.115	0.461		2
06141	Selenium	7782-49-2	0.106	J	0.0668	0.461		2
06142	Silver	7440-22-4	0.0490	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.346		0.0345	0.115		2
06148	Vanadium	7440-62-2	52.7		0.0253	0.115		2
06149	Zinc	7440-66-6	75.0		0.645	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0691	J	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.79	J	0.23	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-033-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 03:56	Holly Berry	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 19:56	Jason M Long	20.16
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:11	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011 12:11	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011 14:10	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011 14:08	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 11:16	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011 07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 22:06	Catherine J Schwarz	21.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:10	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 20:32	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/21/2011 23:25	James H Place	1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 16:58	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 04:30	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 01:38	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 18:54	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 08:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 18:36	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 09:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 09:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 09:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:11	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315633
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 19:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 19:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 10:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 09:37	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:41	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402B	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	320	6.5	7.8		0.84
06192	Benzene	71-43-2	21	0.1	3.9		0.84
06192	Bromobenzene	108-86-1	19	0.13	3.9		0.84
06192	Bromochloromethane	74-97-5	20	0.32	3.9		0.84
06192	Bromodichloromethane	75-27-4	20	0.08	3.9		0.84
06192	Bromoform	75-25-2	20	0.39	3.9		0.84
06192	Bromomethane	74-83-9	15	0.24	3.9		0.84
06192	2-Butanone	78-93-3	220	1.2	7.8		0.84
06192	n-Butylbenzene	104-51-8	19	0.12	3.9		0.84
06192	sec-Butylbenzene	135-98-8	20	0.06	3.9		0.84
06192	tert-Butylbenzene	98-06-6	20	0.16	3.9		0.84
06192	Carbon Tetrachloride	56-23-5	22	0.14	3.9		0.84
06192	Chlorobenzene	108-90-7	20	0.11	3.9		0.84
06192	Chloroethane	75-00-3	14	0.13	3.9		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.29	3.9		0.84
06192	Chloroform	67-66-3	21	0.12	3.9		0.84
06192	Chloromethane	74-87-3	18	0.32	3.9		0.84
06192	2-Chlorotoluene	95-49-8	19	0.14	3.9		0.84
06192	4-Chlorotoluene	106-43-4	19	0.14	3.9		0.84
06192	Chlorotrifluoroethene	79-38-9	12	0.47	4.7		0.82
06192	1,2-Dibromo-3-chloropropane	96-12-8	21	0.68	3.9		0.84
06192	Dibromochloromethane	124-48-1	20	0.20	3.9		0.84
06192	1,2-Dibromoethane	106-93-4	20	0.17	3.9		0.84
06192	Dibromomethane	74-95-3	19	0.23	3.9		0.84
06192	1,2-Dichlorobenzene	95-50-1	18	0.09	3.9		0.84
06192	1,3-Dichlorobenzene	541-73-1	18	0.12	3.9		0.84
06192	1,4-Dichlorobenzene	106-46-7	18	0.16	3.9		0.84
06192	Dichlorodifluoromethane	75-71-8	16	0.12	3.9		0.84
06192	1,1-Dichloroethane	75-34-3	21	0.1	3.9		0.84
06192	1,2-Dichloroethane	107-06-2	21	0.15	3.9		0.84
06192	1,1-Dichloroethene	75-35-4	22	0.38	3.9		0.84
06192	cis-1,2-Dichloroethene	156-59-2	20	0.18	3.9		0.84
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	3.9		0.84
06192	1,2-Dichloropropane	78-87-5	20	0.17	3.9		0.84
06192	1,3-Dichloropropane	142-28-9	20	0.08	3.9		0.84
06192	2,2-Dichloropropane	594-20-7	21	0.17	3.9		0.84
06192	1,1-Dichloropropene	563-58-6	21	0.13	3.9		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	19	0.16	3.9		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.17	3.9		0.84
06192	Ethylbenzene	100-41-4	20	0.06	3.9		0.84
06192	Freon 113	76-13-1	23	0.11	3.9		0.84
06192	Freon 133a	75-88-7	20	0.47	4.7		0.82
06192	Hexachlorobutadiene	87-68-3	16	0.14	3.9		0.84
06192	2-Hexanone	591-78-6	140	1.6	7.8		0.84
06192	Isopropylbenzene	98-82-8	21	0.06	3.9		0.84
06192	p-Isopropyltoluene	99-87-6	19	0.11	3.9		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	21	0.20	3.9		0.84
06192	4-Methyl-2-pentanone	108-10-1	110	0.38	7.8		0.84
06192	Methylene Chloride	75-09-2	32	0.23	3.9		0.84
06192	n-Propylbenzene	103-65-1	20	0.07	3.9		0.84

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	20	0.1	3.9		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	20	0.11	3.9		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.22	3.9		0.84
06192	Tetrachloroethene	127-18-4	21	0.20	3.9		0.84
06192	Toluene	108-88-3	21	0.08	3.9		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	15	0.14	3.9		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	15	0.18	3.9		0.84
06192	1,1,1-Trichloroethane	71-55-6	21	0.20	3.9		0.84
06192	1,1,2-Trichloroethane	79-00-5	20	0.26	3.9		0.84
06192	Trichloroethene	79-01-6	20	0.15	3.9		0.84
06192	Trichlorofluoromethane	75-69-4	20	0.28	3.9		0.84
06192	1,2,3-Trichloropropane	96-18-4	20	0.32	3.9		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	19	0.39	3.9		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	20	0.1	3.9		0.84
06192	Vinyl Chloride	75-01-4	18	0.20	3.9		0.84
06192	m+p-Xylene	179601-23-1	42	0.17	3.9		0.84
06192	o-Xylene	95-47-6	20	0.17	3.9		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	120	5.0	15		21.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	827	194	388		10
Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800	19	190		1
04688	Acenaphthylene	208-96-8	1,900	19	190		1
04688	Aniline	62-53-3	1,400	190	580		1
04688	Anthracene	120-12-7	1,900	19	190		1
04688	Benzidine	92-87-5	4,300	1,300	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,800	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	19	190		1
04688	Benzoic acid	65-85-0	1,500	190	580		1
04688	Benzyl alcohol	100-51-6	1,800	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,100	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800	19	190		1
04688	Carbazole	86-74-8	1,800	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	39	190		1
04688	4-Chloroaniline	106-47-8	1,300	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,900	19	190		1
04688	2-Chlorophenol	95-57-8	1,700	19	190		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	39	190		1
04688	Chrysene	218-01-9	2,000	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,800	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	39	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	39	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,800	190	580		1
04688	2,4-Dinitrophenol	51-28-5	3,400	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,000	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	19	390		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,900	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,200	190	580		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	39	190		1
04688	4-Methylphenol	106-44-5	1,600	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	39	190		1
04688	4-Nitroaniline	100-01-6	1,300	77	190		1
04688	Nitrobenzene	98-95-3	1,800	19	190		1
04688	2-Nitrophenol	88-75-5	1,800	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	19	190		1
04688	Pentachlorophenol	87-86-5	1,700	190	580		1
04688	Phenanthrene	85-01-8	1,800	19	190		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	1,700		19	190		1
04688	Pyrene	129-00-0	2,000		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,900		39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31		0.78	1.9		1
10138	Acenaphthylene	208-96-8	30		0.39	1.9		1
10138	Anthracene	120-12-7	34		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	37		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	37		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	37		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	36		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	38		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	42		7.0	21		1
10138	Di-n-butylphthalate	84-74-2	45		7.0	21		1
10138	Chrysene	218-01-9	36		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	37		0.78	1.9		1
10138	Diethylphthalate	84-66-2	36		7.0	21		1
10138	Dimethylphthalate	131-11-3	33		7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44		7.0	21		1
10138	Fluoranthene	206-44-0	38		0.78	1.9		1
10138	Fluorene	86-73-7	32		0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	41		0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	35		0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.78	1.9		1
10138	Naphthalene	91-20-3	31		0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	39		7.0	21		1
10138	Phenanthrene	85-01-8	33		0.78	1.9		1
10138	Pyrene	129-00-0	31		0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.6		0.2	1		20.7
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,700		70	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		47	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,700		47	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,500		47	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,600		47	140		1
10132	HMX	2691-41-0	2,300		120	350		1
10132	Nitrobenzene	98-95-3	2,600		47	140		1
10132	Nitroglycerin	55-63-0	54,000		930	2,800		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Nitrotoluene	88-72-2	2,500		93	140		1
10132	3-Nitrotoluene	99-08-1	2,700		120	140		1
10132	4-Nitrotoluene	99-99-0	2,500		93	140		1
10132	PETN	78-11-5	60,000		930	2,800		1
10132	RDX	121-82-4	2,100		58	140		1
10132	Tetryl	479-45-8	2,300		71	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,500		47	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		47	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,800		700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	17		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	18		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.6	U	4.6	14		10
10199	EFH (C15-C20)	n.a.	5.0	J	4.6	14		10
10199	EFH (C21-C30)	n.a.	80		4.6	14		10
10199	EFH (C30 - C40)	n.a.	180		4.6	14		10
10199	EFH (C8-C11)	n.a.	4.6	U	4.6	14		10
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		120	580		1
10501	Isopropanol	67-63-0	2,100		120	580		1
10501	Methanol	67-56-1	2,100		120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	120		5.8	12		1
08283	Ethylene glycol	107-21-1	190		5.8	12		1
08283	Propylene glycol	57-55-6	180		5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	4.1		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	J	1.5	4.1		1
10318	p-Terphenyl	92-94-4	1.6	J	1.6	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		6.76	22.4		1
07914	Boron	7440-42-8	211		0.403	5.59		1
01650	Calcium	7440-70-2	13,300		2.80	22.4		1
01654	Iron	7439-89-6	34,500		5.84	44.7		2
01656	Lithium	7439-93-2	135		0.69	2.2		1
01657	Magnesium	7439-95-4	6,920		0.492	11.2		1
06958	Manganese	7439-96-5	398		0.0403	0.559		1
10145	Phosphorus	7723-14-0	392		0.391	11.2		1
01662	Potassium	7440-09-7	4,720		12.6	55.9		1
01667	Sodium	7440-23-5	1,410		6.65	112		1
07968	Strontium	7440-24-6	146		0.0280	0.559		1
06969	Tin	7440-31-5	385		0.358	11.2		1
06970	Titanium	7440-32-6	1,500		0.0802	1.13		1
10146	Zirconium	7440-67-7	110		0.514	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.548		0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.68		0.0903	0.452		2
06126	Barium	7440-39-3	146		0.120	0.452		2
06127	Beryllium	7440-41-7	1.64		0.0181	0.113		2
06128	Cadmium	7440-43-9	1.30		0.0497	0.113		2
06131	Chromium	7440-47-3	40.7		0.135	0.452		2
06132	Cobalt	7440-48-4	61.2		0.0226	0.113		2
06133	Copper	7440-50-8	23.5		0.0903	0.452		2
06135	Lead	7439-92-1	11.4		0.0115	0.226		2
06138	Molybdenum	7439-98-7	10.5		0.0564	0.113		2
06139	Nickel	7440-02-0	26.9		0.113	0.452		2
06141	Selenium	7782-49-2	2.18		0.0655	0.452		2
06142	Silver	7440-22-4	11.4		0.0160	0.113		2
06145	Thallium	7440-28-0	0.844		0.0339	0.113		2
06148	Vanadium	7440-62-2	65.2		0.0248	0.113		2
06149	Zinc	7440-66-6	92.6		0.632	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.227		0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.6		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.5		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

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18003 SDG#: DE180-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	575	10.5	34.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.8	1.2	5.8		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.4	0.21	0.57		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-033-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011	04:19	Holly Berry	0.84
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011	05:04	Holly Berry	0.82
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011	20:16	Jason M Long	21.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:07	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011	12:08	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011	14:29	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011	09:46	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011	11:47	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011	15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011	07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011	22:43	Catherine J Schwarz	20.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:07	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011	21:15	James H Place	1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/21/2011 23:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 17:17	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/25/2011 02:06	Heather E Williams	10
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 01:53	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 15:17	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 09:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:06	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 18:48	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 09:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 09:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 09:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 09:49	Choon Y Tian	2

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315634
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 20:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 20:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 11:00	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 12:06	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:43	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	320	7.1	8.5		0.92
06192	Benzene	71-43-2	22	0.11	4.3		0.92
06192	Bromobenzene	108-86-1	20	0.14	4.3		0.92
06192	Bromochloromethane	74-97-5	22	0.35	4.3		0.92
06192	Bromodichloromethane	75-27-4	21	0.08	4.3		0.92
06192	Bromoform	75-25-2	21	0.43	4.3		0.92
06192	Bromomethane	74-83-9	17	0.27	4.3		0.92
06192	2-Butanone	78-93-3	220	1.3	8.5		0.92
06192	n-Butylbenzene	104-51-8	20	0.13	4.3		0.92
06192	sec-Butylbenzene	135-98-8	21	0.06	4.3		0.92
06192	tert-Butylbenzene	98-06-6	21	0.17	4.3		0.92
06192	Carbon Tetrachloride	56-23-5	23	0.15	4.3		0.92
06192	Chlorobenzene	108-90-7	22	0.12	4.3		0.92
06192	Chloroethane	75-00-3	16	0.14	4.3		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	19	0.32	4.3		0.92
06192	Chloroform	67-66-3	22	0.13	4.3		0.92
06192	Chloromethane	74-87-3	20	0.35	4.3		0.92
06192	2-Chlorotoluene	95-49-8	20	0.15	4.3		0.92
06192	4-Chlorotoluene	106-43-4	21	0.15	4.3		0.92
06192	Chlorotrifluoroethene	79-38-9	12	0.51	5.1		0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	21	0.75	4.3		0.92
06192	Dibromochloromethane	124-48-1	21	0.21	4.3		0.92
06192	1,2-Dibromoethane	106-93-4	21	0.18	4.3		0.92
06192	Dibromomethane	74-95-3	21	0.26	4.3		0.92
06192	1,2-Dichlorobenzene	95-50-1	19	0.1	4.3		0.92
06192	1,3-Dichlorobenzene	541-73-1	19	0.13	4.3		0.92
06192	1,4-Dichlorobenzene	106-46-7	19	0.17	4.3		0.92
06192	Dichlorodifluoromethane	75-71-8	18	0.13	4.3		0.92
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.3		0.92
06192	1,2-Dichloroethane	107-06-2	23	0.16	4.3		0.92
06192	1,1-Dichloroethene	75-35-4	24	0.42	4.3		0.92
06192	cis-1,2-Dichloroethene	156-59-2	22	0.20	4.3		0.92
06192	trans-1,2-Dichloroethene	156-60-5	23	0.13	4.3		0.92
06192	1,2-Dichloropropane	78-87-5	21	0.18	4.3		0.92
06192	1,3-Dichloropropane	142-28-9	22	0.08	4.3		0.92
06192	2,2-Dichloropropane	594-20-7	23	0.18	4.3		0.92
06192	1,1-Dichloropropene	563-58-6	23	0.14	4.3		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	21	0.17	4.3		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.18	4.3		0.92
06192	Ethylbenzene	100-41-4	22	0.06	4.3		0.92
06192	Freon 113	76-13-1	24	0.12	4.3		0.92
06192	Freon 133a	75-88-7	20	0.51	5.1		0.88
06192	Hexachlorobutadiene	87-68-3	17	0.15	4.3		0.92
06192	2-Hexanone	591-78-6	150	1.7	8.5		0.92
06192	Isopropylbenzene	98-82-8	23	0.06	4.3		0.92
06192	p-Isopropyltoluene	99-87-6	20	0.12	4.3		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	22	0.22	4.3		0.92
06192	4-Methyl-2-pentanone	108-10-1	110	0.42	8.5		0.92
06192	Methylene Chloride	75-09-2	27	0.26	4.3		0.92
06192	n-Propylbenzene	103-65-1	21	0.07	4.3		0.92

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	21	0.11	4.3		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.12	4.3		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.25	4.3		0.92
06192	Tetrachloroethene	127-18-4	23	0.21	4.3		0.92
06192	Toluene	108-88-3	22	0.08	4.3		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	16	0.15	4.3		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	15	0.19	4.3		0.92
06192	1,1,1-Trichloroethane	71-55-6	23	0.21	4.3		0.92
06192	1,1,2-Trichloroethane	79-00-5	21	0.29	4.3		0.92
06192	Trichloroethene	79-01-6	22	0.16	4.3		0.92
06192	Trichlorofluoromethane	75-69-4	22	0.31	4.3		0.92
06192	1,2,3-Trichloropropane	96-18-4	21	0.35	4.3		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.43	4.3		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.11	4.3		0.92
06192	Vinyl Chloride	75-01-4	20	0.21	4.3		0.92
06192	m+p-Xylene	179601-23-1	45	0.18	4.3		0.92
06192	o-Xylene	95-47-6	22	0.18	4.3		0.92
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110	4.8	14		20.73
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	774	194	388		10
Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700	19	190		1
04688	Acenaphthylene	208-96-8	1,800	19	190		1
04688	Aniline	62-53-3	1,500	190	580		1
04688	Anthracene	120-12-7	1,800	19	190		1
04688	Benzidine	92-87-5	5,100	1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	1,900	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,600	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	19	190		1
04688	Benzoic acid	65-85-0	1,400	190	580		1
04688	Benzyl alcohol	100-51-6	1,800	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,000	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,700	19	190		1
04688	Carbazole	86-74-8	1,800	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	39	190		1
04688	4-Chloroaniline	106-47-8	1,400	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,700	19	190		1
04688	2-Chlorophenol	95-57-8	1,700	19	190		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	39	190		1
04688	Chrysene	218-01-9	1,900	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,500	120	390		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,800	39	190		1
04688	3,5-Dimethylphenol	108-68-9	1,800	39	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	190	580		1
04688	2,4-Dinitrophenol	51-28-5	3,400	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	390		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,700	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,100	190	580		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,600	39	190		1
04688	4-Methylphenol	106-44-5	1,600	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,900	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	39	190		1
04688	4-Nitroaniline	100-01-6	1,400	78	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	580		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	39	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,700	190	580		1
04688	Phenanthrene	85-01-8	1,800	19	190		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	1,700		19	190		1
04688	Pyrene	129-00-0	1,900		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	31		0.78	1.9		1
10138	Acenaphthylene	208-96-8	29		0.39	1.9		1
10138	Anthracene	120-12-7	33		0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	36		0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	37		0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	35		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	42		7.0	21		1
10138	Di-n-butylphthalate	84-74-2	44		7.0	21		1
10138	Chrysene	218-01-9	35		0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	39		0.78	1.9		1
10138	Diethylphthalate	84-66-2	35		7.0	21		1
10138	Dimethylphthalate	131-11-3	33		7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		7.0	21		1
10138	Fluoranthene	206-44-0	37		0.78	1.9		1
10138	Fluorene	86-73-7	32		0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	39		0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	34		0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	31		0.78	1.9		1
10138	Naphthalene	91-20-3	32		0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	38		7.0	21		1
10138	Phenanthrene	85-01-8	32		0.78	1.9		1
10138	Pyrene	129-00-0	31		0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	6.8		0.2	1		20.63
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,700		70	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		47	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,700		47	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,500		47	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,600		47	140		1
10132	HMX	2691-41-0	2,200		120	350		1
10132	Nitrobenzene	98-95-3	2,600		47	140		1
10132	Nitroglycerin	55-63-0	53,000		930	2,800		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Nitrotoluene	88-72-2	2,600		93	140		1
10132	3-Nitrotoluene	99-08-1	2,700		120	140		1
10132	4-Nitrotoluene	99-99-0	2,500		93	140		1
10132	PETN	78-11-5	59,000		930	2,800		1
10132	RDX	121-82-4	2,100		58	140		1
10132	Tetryl	479-45-8	2,100		71	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		47	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		47	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,600		700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	17		0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	20		0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.92	J	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	2.0		0.47	1.4		1
10199	EFH (C21-C30)	n.a.	11		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	30		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.90	J	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		120	580		1
10501	Isopropanol	67-63-0	2,000		120	580		1
10501	Methanol	67-56-1	2,100		120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	130		5.8	12		1
08283	Ethylene glycol	107-21-1	200		5.8	12		1
08283	Propylene glycol	57-55-6	190		5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.3	J	1.3	4.1		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	o-Terphenyl	84-15-1	1.6	J	1.5	4.1		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,900		6.76	22.4		1
07914	Boron	7440-42-8	216		0.403	5.59		1
01650	Calcium	7440-70-2	14,200		2.80	22.4		1
01654	Iron	7439-89-6	35,200		5.84	44.7		2
01656	Lithium	7439-93-2	139		0.69	2.2		1
01657	Magnesium	7439-95-4	7,640		0.492	11.2		1
06958	Manganese	7439-96-5	440		0.0403	0.559		1
10145	Phosphorus	7723-14-0	448		0.391	11.2		1
01662	Potassium	7440-09-7	4,880		12.6	55.9		1
01667	Sodium	7440-23-5	1,470		6.65	112		1
07968	Strontium	7440-24-6	150		0.0280	0.559		1
06969	Tin	7440-31-5	393		0.358	11.2		1
06970	Titanium	7440-32-6	1,490		0.0826	1.16		1
10146	Zirconium	7440-67-7	112		0.514	5.59		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.721		0.0852	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.01		0.0921	0.461		2
06126	Barium	7440-39-3	139		0.122	0.461		2
06127	Beryllium	7440-41-7	1.61		0.0184	0.115		2
06128	Cadmium	7440-43-9	1.47		0.0507	0.115		2
06131	Chromium	7440-47-3	39.5		0.138	0.461		2
06132	Cobalt	7440-48-4	62.5		0.0230	0.115		2
06133	Copper	7440-50-8	22.3		0.0921	0.461		2
06135	Lead	7439-92-1	11.3		0.0117	0.230		2
06138	Molybdenum	7439-98-7	11.5		0.0576	0.115		2
06139	Nickel	7440-02-0	25.8		0.115	0.461		2
06141	Selenium	7782-49-2	2.34		0.0668	0.461		2
06142	Silver	7440-22-4	11.8		0.0163	0.115		2
06145	Thallium	7440-28-0	0.819		0.0345	0.115		2
06148	Vanadium	7440-62-2	62.5		0.0253	0.115		2
06149	Zinc	7440-66-6	71.6		0.645	3.45		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.198		0.0080	0.114		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	14.0		0.50	0.50		1

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Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-033-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 04:41	Holly Berry	0.92
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 05:26	Holly Berry	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 20:36	Jason M Long	20.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011 12:04	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011 14:47	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011 10:12	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 12:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011 07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 23:19	Catherine J Schwarz	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:03	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 21:57	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/21/2011 23:44	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 17:35	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 05:20	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 02:08	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 15:30	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 10:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315635
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:10	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:19	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 18:53	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 09:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 09:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 09:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 09:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315636
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,400		6.83	22.6		1
07914	Boron	7440-42-8	2.18	J	0.406	5.64		1
01650	Calcium	7440-70-2	25,300		2.82	22.6		1
01654	Iron	7439-89-6	31,100		5.89	45.2		2
01656	Lithium	7439-93-2	24.2		0.70	2.3		1
01657	Magnesium	7439-95-4	6,610		0.497	11.3		1
06958	Manganese	7439-96-5	529		0.0406	0.564		1
10145	Phosphorus	7723-14-0	243		0.395	11.3		1
01662	Potassium	7440-09-7	3,160		12.8	56.4		1
01667	Sodium	7440-23-5	398		6.72	113		1
07968	Strontium	7440-24-6	45.1		0.0282	0.564		1
06969	Tin	7440-31-5	2.73	J	0.361	11.3		1
06970	Titanium	7440-32-6	1,200		0.0802	1.13		1
10146	Zirconium	7440-67-7	5.22	J	0.519	5.64		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0819	U	0.0819	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.17		0.0886	0.443		2
06126	Barium	7440-39-3	138		0.117	0.443		2
06127	Beryllium	7440-41-7	0.851		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.296		0.0487	0.111		2
06131	Chromium	7440-47-3	28.5		0.133	0.443		2
06132	Cobalt	7440-48-4	11.1		0.0221	0.111		2
06133	Copper	7440-50-8	13.6		0.0886	0.443		2
06135	Lead	7439-92-1	9.21		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.339		0.0554	0.111		2
06139	Nickel	7440-02-0	18.4		0.111	0.443		2
06141	Selenium	7782-49-2	0.139	J	0.0642	0.443		2
06142	Silver	7440-22-4	0.0574	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.333		0.0332	0.111		2
06148	Vanadium	7440-62-2	44.8		0.0244	0.111		2
06149	Zinc	7440-66-6	72.7		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0431	J	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.80	J	0.23	1.2		1

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315636
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:03	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 18:44	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 09:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315636
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18003 SDG#: DE180-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 09:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 09:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 09:46	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 19:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 19:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 10:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 13:21	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:42	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402B	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315637
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18004 SDG#: DE180-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		6.7	8.0		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.89
06192	Methylene Chloride	75-09-2	4.5		0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315637
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18004 SDG#: DE180-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.35	J	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.59
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	186	U	186	372		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1

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Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315637
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18004 SDG#: DE180-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1

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SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315637
LLI Group # 1251483
Account # 13013

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18004 SDG#: DE180-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.04
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1

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Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.60	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.6		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	3.0		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1

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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		6.56	21.7		1
07914	Boron	7440-42-8	0.391	U	0.391	5.42		1
01650	Calcium	7440-70-2	18,700		2.71	21.7		1
01654	Iron	7439-89-6	25,700		2.83	21.7		1
01656	Lithium	7439-93-2	29.3		0.67	2.2		1
01657	Magnesium	7439-95-4	5,600		0.477	10.8		1
06958	Manganese	7439-96-5	341		0.0391	0.542		1
10145	Phosphorus	7723-14-0	608		0.380	10.8		1
01662	Potassium	7440-09-7	2,290		12.3	54.2		1
01667	Sodium	7440-23-5	364		6.45	108		1
07968	Strontium	7440-24-6	42.6		0.0271	0.542		1
06969	Tin	7440-31-5	2.61	J	0.347	10.8		1
06970	Titanium	7440-32-6	1,310		0.0778	1.10		1
10146	Zirconium	7440-67-7	3.43	J	0.499	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0827	U	0.0827	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.44		0.0894	0.447		2
06126	Barium	7440-39-3	90.9		0.118	0.447		2
06127	Beryllium	7440-41-7	0.605		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.154		0.0492	0.112		2
06131	Chromium	7440-47-3	21.0		0.134	0.447		2
06132	Cobalt	7440-48-4	7.18		0.0223	0.112		2
06133	Copper	7440-50-8	9.05		0.0894	0.447		2
06135	Lead	7439-92-1	4.72		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.311		0.0559	0.112		2
06139	Nickel	7440-02-0	12.6		0.112	0.447		2
06141	Selenium	7782-49-2	0.0825	J	0.0648	0.447		2
06142	Silver	7440-22-4	0.0300	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.284		0.0335	0.112		2
06148	Vanadium	7440-62-2	39.4		0.0246	0.112		2
06149	Zinc	7440-66-6	56.5		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0264	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
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Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.77	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-033-SA5DN-SB-11.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 05:48	Holly Berry	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 17:56	Jason M Long	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011 12:01	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011 15:42	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011 15:53	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 22:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011 07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/16/2011 23:55	Catherine J Schwarz	21.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:00	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 22:40	James H Place	1

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Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315637
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18004 SDG#: DE180-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/21/2011 23:53	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111660019A	06/18/2011 14:01	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 22:31	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111660019A	06/16/2011 09:15	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 00:18	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 02:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 19:07	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 02:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:17	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:10	Choon Y Tian	2

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Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315637
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18004 SDG#: DE180-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 20:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 20:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 12:33	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 13:33	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:44	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402A	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315638
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18005 SDG#: DE180-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.8		6.6	7.9		0.84
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.84
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.84
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.84
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.84
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.84
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	4.0		0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.84
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.84
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.84
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.84
06192	Methylene Chloride	75-09-2	4.2		0.24	4.0		0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.84

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Sample Description: SL-035-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315638
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18005 SDG#: DE180-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.84
06192	Toluene	108-88-3	0.47	J	0.08	4.0		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.84
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	15		20.7
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	93.9		19.5	39.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1

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Sample Description: SL-035-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315638
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18005 SDG#: DE180-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1

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SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315638
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18005 SDG#: DE180-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		22.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1

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LLI Sample # SW 6315638
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18005 SDG#: DE180-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.47	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,500		7.08	23.4		1
07914	Boron	7440-42-8	1.31	J	0.422	5.85		1
01650	Calcium	7440-70-2	16,500		2.93	23.4		1
01654	Iron	7439-89-6	35,200		6.11	46.8		2
01656	Lithium	7439-93-2	26.6		0.73	2.3		1
01657	Magnesium	7439-95-4	6,920		0.515	11.7		1

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SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315638
LLI Group # 1251483
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18005 SDG#: DE180-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	169		0.0422	0.585		1
10145	Phosphorus	7723-14-0	127		0.410	11.7		1
01662	Potassium	7440-09-7	2,480		13.2	58.5		1
01667	Sodium	7440-23-5	491		6.97	117		1
07968	Strontium	7440-24-6	52.0		0.0293	0.585		1
06969	Tin	7440-31-5	2.96	J	0.375	11.7		1
06970	Titanium	7440-32-6	1,150		0.0807	1.14		1
10146	Zirconium	7440-67-7	5.04	J	0.539	5.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0973	J	0.0850	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.54		0.0918	0.459		2
06126	Barium	7440-39-3	119		0.122	0.459		2
06127	Beryllium	7440-41-7	0.728		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.0996	J	0.0505	0.115		2
06131	Chromium	7440-47-3	30.6		0.138	0.459		2
06132	Cobalt	7440-48-4	6.73		0.0230	0.115		2
06133	Copper	7440-50-8	12.6		0.0918	0.459		2
06135	Lead	7439-92-1	8.82		0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.267		0.0574	0.115		2
06139	Nickel	7440-02-0	14.5		0.115	0.459		2
06141	Selenium	7782-49-2	0.0666	U	0.0666	0.459		2
06142	Silver	7440-22-4	0.0255	J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.319		0.0344	0.115		2
06148	Vanadium	7440-62-2	52.8		0.0253	0.115		2
06149	Zinc	7440-66-6	52.6		0.643	3.44		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0388	J	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.6		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.58		1

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SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315638
LLI Group # 1251483
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Project Name: SSFL Area IV Collocated Soil Sampling

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18005 SDG#: DE180-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.44	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	14.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-035-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 06:11	Holly Berry	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 18:16	Jason M Long	20.7
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 11:57	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011 12:28	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011 11:57	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011 16:00	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011 16:20	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 22:51	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011 07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/17/2011 00:32	Catherine J Schwarz	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 11:56	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/23/2011 23:22	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/22/2011 00:03	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 22:50	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1

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18005 SDG#: DE180-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/22/2011 23:27	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 02:38	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 19:20	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 04:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:17	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:21	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315638
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18005 SDG#: DE180-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 21:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 21:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 12:56	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 13:46	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:46	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402B	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.0		6.7	8.0		0.89
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2	U	1.2	8.0		0.89
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.89
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.0		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	8.0		0.89
06192	Methylene Chloride	75-09-2	5.2		0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.89

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Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.45	J	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.6	U	4.6	14		20.42
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	28.5	J	18.7	37.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.37
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		6.77	22.4		1
07914	Boron	7440-42-8	0.403	U	0.403	5.60		1
01650	Calcium	7440-70-2	8,730		2.80	22.4		1
01654	Iron	7439-89-6	26,700		2.92	22.4		1
01656	Lithium	7439-93-2	32.7		0.69	2.2		1
01657	Magnesium	7439-95-4	8,300		0.493	11.2		1

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Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	370		0.0403	0.560		1
10145	Phosphorus	7723-14-0	498		0.392	11.2		1
01662	Potassium	7440-09-7	2,430		12.7	56.0		1
01667	Sodium	7440-23-5	222		6.66	112		1
07968	Strontium	7440-24-6	37.3		0.0280	0.560		1
06969	Tin	7440-31-5	2.35	J	0.358	11.2		1
06970	Titanium	7440-32-6	1,500		0.0779	1.10		1
10146	Zirconium	7440-67-7	4.61	J	0.515	5.60		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0829	U	0.0829	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.18		0.0896	0.448		2
06126	Barium	7440-39-3	82.4		0.119	0.448		2
06127	Beryllium	7440-41-7	0.577		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.110	J	0.0493	0.112		2
06131	Chromium	7440-47-3	42.7		0.134	0.448		2
06132	Cobalt	7440-48-4	8.41		0.0224	0.112		2
06133	Copper	7440-50-8	13.1		0.0896	0.448		2
06135	Lead	7439-92-1	7.27		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.258		0.0560	0.112		2
06139	Nickel	7440-02-0	27.2		0.112	0.448		2
06141	Selenium	7782-49-2	0.0649	U	0.0649	0.448		2
06142	Silver	7440-22-4	0.0244	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.281		0.0336	0.112		2
06148	Vanadium	7440-62-2	46.5		0.0246	0.112		2
06149	Zinc	7440-66-6	53.9		0.627	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0538	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1

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SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.27	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-035-SA5DN-SB-10.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 06:33	Holly Berry	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011 18:36	Jason M Long	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 11:53	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011 12:28	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011 12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011 11:53	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011 16:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011 16:46	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011 23:22	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011 14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011 07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/17/2011 01:08	Catherine J Schwarz	21.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011 11:52	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/24/2011 00:05	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/22/2011 00:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 23:08	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1

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Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/22/2011 23:02	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 02:52	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 19:33	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 04:54	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:26	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1

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Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315639
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18006 SDG#: DE180-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 21:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 21:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 13:19	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 14:05	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:47	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402B	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315640
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18007 SDG#: DE180-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.8	8.2		0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.87
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.87
06192	Methylene Chloride	75-09-2	4.9		0.24	4.1		0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.87

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SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315640
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18007 SDG#: DE180-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.87
06192	Toluene	108-88-3	0.33	J	0.08	4.1		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.87
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.26
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	195	U	195	391		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315640
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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18007 SDG#: DE180-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0		1

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18007 SDG#: DE180-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	71	U	71	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	94	U	94	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	94	U	94	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	940	U	940	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	94	U	94	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	94	U	94	140	10000000	1
10132	PETN	78-11-5	940	U	940	2,800	10000000	1
10132	RDX	121-82-4	59	U	59	140	10000000	1
10132	Tetryl	479-45-8	72	U	72	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	710	U	710	1,800		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	0.49	J	0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,500		6.98	23.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315640
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18007 SDG#: DE180-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.63	J	0.415	5.77		1
01650	Calcium	7440-70-2	10,300		2.88	23.1		1
01654	Iron	7439-89-6	32,600		6.02	46.1		2
01656	Lithium	7439-93-2	28.1		0.72	2.3		1
01657	Magnesium	7439-95-4	6,900		0.507	11.5		1
06958	Manganese	7439-96-5	392		0.0415	0.577		1
10145	Phosphorus	7723-14-0	282		0.404	11.5		1
01662	Potassium	7440-09-7	3,570		13.0	57.7		1
01667	Sodium	7440-23-5	432		6.86	115		1
07968	Strontium	7440-24-6	50.0		0.0288	0.577		1
06969	Tin	7440-31-5	2.62	J	0.369	11.5		1
06970	Titanium	7440-32-6	1,240		0.0819	1.15		1
10146	Zirconium	7440-67-7	5.41	J	0.531	5.77		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0965	J	0.0837	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0905	0.452		2
06126	Barium	7440-39-3	156		0.120	0.452		2
06127	Beryllium	7440-41-7	0.853		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.300		0.0498	0.113		2
06131	Chromium	7440-47-3	31.5		0.136	0.452		2
06132	Cobalt	7440-48-4	11.6		0.0226	0.113		2
06133	Copper	7440-50-8	18.6		0.0905	0.452		2
06135	Lead	7439-92-1	11.8		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.380		0.0566	0.113		2
06139	Nickel	7440-02-0	20.3		0.113	0.452		2
06141	Selenium	7782-49-2	0.116	J	0.0656	0.452		2
06142	Silver	7440-22-4	0.0884	J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.360		0.0339	0.113		2
06148	Vanadium	7440-62-2	56.3		0.0249	0.113		2
06149	Zinc	7440-66-6	107		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0399	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.94	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.94	1.8		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.24	1.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315640
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18007 SDG#: DE180-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.21	U	0.21	0.57		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.31		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-044-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011	06:55	Holly Berry	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011	18:56	Jason M Long	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:21	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011	12:22	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011	16:55	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011	17:12	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	06/30/2011	23:53	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011	15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011	07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/17/2011	01:44	Catherine J Schwarz	21.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:21	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/24/2011	02:12	James H Place	1

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Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315640
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18007 SDG#: DE180-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/22/2011 00:22	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 23:27	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/22/2011 23:52	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 03:07	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 19:46	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 07:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:20	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 12:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:30	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:20	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315640
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18007 SDG#: DE180-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 21:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 21:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 13:42	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 14:11	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402B	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315641
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18008 SDG#: DE180-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.6		7.2	8.7		0.96
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.96
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.96
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.96
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.96
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.96
06192	2-Butanone	78-93-3	1.3	U	1.3	8.7		0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.96
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.96
06192	Chloroform	67-66-3	0.14	J	0.13	4.3		0.96
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.96
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76	U	0.76	4.3		0.96
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.96
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.96
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.96
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.3		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.96
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.96
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.96
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.96
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.7		0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.96
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.7		0.96
06192	Methylene Chloride	75-09-2	10		0.26	4.3		0.96
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.96

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Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315641
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18008 SDG#: DE180-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.96
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.96
06192	Toluene	108-88-3	0.42	J	0.09	4.3		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.96
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.96
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.96
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.6	U	5.6	17		25
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	188	U	188	377		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Anthracene	120-12-7	19	J	19	190		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzo(a)anthracene	56-55-3	62	J	19	190		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	22	J	19	190		1
04688	Carbazole	86-74-8	25	J	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Chrysene	218-01-9	68	J	19	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1

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SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315641
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18008 SDG#: DE180-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenanthrene	85-01-8	69	J	19	190		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Pyrene	129-00-0	110	J	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Benzo(a)pyrene	50-32-8	14		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	21		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.7		0.75	1.9		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Dibenz(a,h)anthracene	53-70-3	1.2	J	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1

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SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315641
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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18008 SDG#: DE180-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	5.4		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.6	J	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	16	J	6.8	20		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.4
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	3.7		0.37	1.9		1
10225	PCB-1260	11096-82-5	1.3	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	7.0		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	12		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		6.70	22.2		1

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Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.699	J	0.399	5.54		1
01650	Calcium	7440-70-2	17,100		2.77	22.2		1
01654	Iron	7439-89-6	22,200		2.89	22.2		1
01656	Lithium	7439-93-2	23.3		0.69	2.2		1
01657	Magnesium	7439-95-4	4,850		0.487	11.1		1
06958	Manganese	7439-96-5	269		0.0399	0.554		1
10145	Phosphorus	7723-14-0	355		0.388	11.1		1
01662	Potassium	7440-09-7	2,570		12.5	55.4		1
01667	Sodium	7440-23-5	387		6.59	111		1
07968	Strontium	7440-24-6	41.2		0.0277	0.554		1
06969	Tin	7440-31-5	2.57	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,190		0.0779	1.10		1
10146	Zirconium	7440-67-7	4.50	J	0.510	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0836	U	0.0836	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.09		0.0904	0.452		2
06126	Barium	7440-39-3	89.0		0.120	0.452		2
06127	Beryllium	7440-41-7	0.513		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.136		0.0497	0.113		2
06131	Chromium	7440-47-3	19.6		0.136	0.452		2
06132	Cobalt	7440-48-4	5.99		0.0226	0.113		2
06133	Copper	7440-50-8	10.1		0.0904	0.452		2
06135	Lead	7439-92-1	4.67		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.370		0.0565	0.113		2
06139	Nickel	7440-02-0	10.5		0.113	0.452		2
06141	Selenium	7782-49-2	0.0661	J	0.0655	0.452		2
06142	Silver	7440-22-4	0.0265	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.246		0.0339	0.113		2
06148	Vanadium	7440-62-2	37.1		0.0249	0.113		2
06149	Zinc	7440-66-6	53.9		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.1		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.23	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315641
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18008 SDG#: DE180-08

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.19	U	0.19	0.54		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.25		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	11.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-044-SA5DN-SB-12.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011	07:17	Holly Berry	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011	19:16	Jason M Long	25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:18	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011	12:18	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011	17:13	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011	17:39	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	07/01/2011	00:24	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011	15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011	07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/17/2011	02:21	Catherine J Schwarz	21.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:17	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/24/2011	02:54	James H Place	1

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Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315641
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18008 SDG#: DE180-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/22/2011 00:31	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/20/2011 23:45	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 02:24	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 03:22	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 19:58	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 11:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:34	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:23	Choon Y Tian	2

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Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315641
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18008 SDG#: DE180-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 21:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 21:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 14:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 14:29	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402B	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4		6.2	7.4		0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.7		0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7		0.8
06192	Bromochloromethane	74-97-5	0.31	U	0.31	3.7		0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7		0.8
06192	Bromoform	75-25-2	0.37	U	0.37	3.7		0.8
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7		0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4		0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7		0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7		0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7		0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7		0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7		0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7		0.8
06192	Chloroform	67-66-3	0.19	J	0.11	3.7		0.8
06192	Chloromethane	74-87-3	0.31	U	0.31	3.7		0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7		0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7		0.8
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7		0.8
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.7		0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7		0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7		0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7		0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7		0.8
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7		0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7		0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7		0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7		0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7		0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7		0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.7		0.8
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6		0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7		0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4		0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7		0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.7		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4		0.8
06192	Methylene Chloride	75-09-2	15		0.22	3.7		0.8
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.7		0.8

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Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7		0.8
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.7		0.8
06192	Toluene	108-88-3	0.33	J	0.07	3.7		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.7		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7		0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7		0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.31	U	0.31	3.7		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7		0.8
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.7		0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7		0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7		0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16		22.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	193	U	193	387		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1

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Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.88	J	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.3	J	7.0	21		1
10138	Chrysene	218-01-9	0.73	J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1

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Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	70	U	70	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	47	U	47	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	93	U	93	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	93	U	93	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	47	U	47	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	47	U	47	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	47	U	47	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	47	U	47	140	10000000	1
10132	Nitroglycerin	55-63-0	930	U	930	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	93	U	93	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	93	U	93	140	10000000	1
10132	PETN	78-11-5	930	U	930	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	71	U	71	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	47	U	47	140	10000000	1

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Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4,6-Trinitrotoluene	118-96-7	47	U	47	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	700	U	700	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.83	J	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C15-C20)	n.a.	2.3	U	2.3	7.0		5
10199	EFH (C21-C30)	n.a.	22		2.3	7.0		5
10199	EFH (C30 - C40)	n.a.	75		2.3	7.0		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	7.0		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,600		7.04	23.3		1

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Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.66	J	0.419	5.82		1
01650	Calcium	7440-70-2	11,400		2.91	23.3		1
01654	Iron	7439-89-6	34,800		6.08	46.6		2
01656	Lithium	7439-93-2	25.0		0.72	2.3		1
01657	Magnesium	7439-95-4	6,820		0.512	11.6		1
06958	Manganese	7439-96-5	441		0.0419	0.582		1
10145	Phosphorus	7723-14-0	334		0.407	11.6		1
01662	Potassium	7440-09-7	3,760		13.2	58.2		1
01667	Sodium	7440-23-5	386		6.93	116		1
07968	Strontium	7440-24-6	43.8		0.0291	0.582		1
06969	Tin	7440-31-5	4.07	J	0.373	11.6		1
06970	Titanium	7440-32-6	1,340		0.0802	1.13		1
10146	Zirconium	7440-67-7	4.55	J	0.536	5.82		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0861	U	0.0861	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.97		0.0931	0.466		2
06126	Barium	7440-39-3	161		0.123	0.466		2
06127	Beryllium	7440-41-7	0.850		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.348		0.0512	0.116		2
06131	Chromium	7440-47-3	28.1		0.140	0.466		2
06132	Cobalt	7440-48-4	10.8		0.0233	0.116		2
06133	Copper	7440-50-8	14.9		0.0931	0.466		2
06135	Lead	7439-92-1	9.10		0.0119	0.233		2
06138	Molybdenum	7439-98-7	0.259		0.0582	0.116		2
06139	Nickel	7440-02-0	18.7		0.116	0.466		2
06141	Selenium	7782-49-2	0.0974	J	0.0675	0.466		2
06142	Silver	7440-22-4	0.0521	J	0.0165	0.116		2
06145	Thallium	7440-28-0	0.355		0.0349	0.116		2
06148	Vanadium	7440-62-2	42.7		0.0256	0.116		2
06149	Zinc	7440-66-6	77.4		0.652	3.49		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.267		0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.4		0.93	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.93	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.23	1.2		1

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Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B		57-12-5	0.21	U	0.21	0.57		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.17		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011	07:40	Holly Berry	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111681AA	06/17/2011	19:36	Jason M Long	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:14	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:27	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116624678	06/15/2011	12:28	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116624678	06/15/2011	12:15	Larry E Bevins	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLD026	07/01/2011	17:32	Timothy J Trees	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11172SLC026	06/26/2011	18:05	Chad A Moline	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11171SLA026	07/01/2011	00:55	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLD026	06/23/2011	15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11171SLA026	06/20/2011	14:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11172SLC026	06/22/2011	07:45	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11166B34A	06/17/2011	02:57	Catherine J Schwarz	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116624678	06/15/2011	12:14	Larry E Bevins	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710007A	06/24/2011	03:37	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111710006A	06/22/2011	00:41	James H Place	1

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Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111670028A	06/21/2011 00:04	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111670028A	06/17/2011 18:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111710006A	06/20/2011 15:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	111710007A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720037A	06/23/2011 06:36	Heather E Williams	5
10501	19a Alcohols by 8015B	SW-846 8015B	1	111660030A	06/16/2011 03:37	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111670001A	06/16/2011 20:11	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111720008A	06/22/2011 12:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720037A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111720008A	06/21/2011 14:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111660030A	06/15/2011 17:10	Tyler O Griffin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111670001A	06/16/2011 11:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:24	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:07	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:39	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:25	Damary Valentin	1

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Analysis Report

Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315642
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18009 SDG#: DE180-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202A	06/24/2011 22:27	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202A	06/24/2011 22:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203A	07/05/2011 14:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11181243201A	07/06/2011 14:42	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11173102201B	06/22/2011 16:53	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202A	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203A	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11173102201B	06/22/2011 08:50	Nancy J Shoop	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11167039402B	06/16/2011 21:25	Luz M Groff	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11181243201A	06/30/2011 21:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: TB-061411 Water
SSFL Area IV Collocated Soil Sampling
TB-061411

LLI Sample # WW 6315643
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:00

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18010 SDG#: DE180-10TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: TB-061411 Water
SSFL Area IV Collocated Soil Sampling
TB-061411

LLI Sample # WW 6315643
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:00

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18010 SDG#: DE180-10TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111712AA	06/20/2011 22:29	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111671AA	06/16/2011 19:32	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111671AA	06/16/2011 19:32	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111712AA	06/20/2011 22:29	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11173A20A	06/23/2011 11:06	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11173A20A	06/23/2011 11:06	Laura M Krieger	1

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Analysis Report

Sample Description: EB17-SA5DN-SB-061411 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315644
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 13:30

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18011 SDG#: DE180-11EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB17-SA5DN-SB-061411 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315644
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 13:30

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18011 SDG#: DE180-11EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	10		2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	1	J	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	59		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1

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Sample Description: EB17-SA5DN-SB-061411 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315644
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 13:30

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18011 SDG#: DE180-11EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.081	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.059	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.20	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.014	J	0.010	0.050		1

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Sample Description: EB17-SA5DN-SB-061411 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315644
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 13:30

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18011 SDG#: DE180-11EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	2-Methylnaphthalene	91-57-6	0.015	J	0.010	0.050		1
10137	Naphthalene	91-20-3	0.12		0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1
Diethylphthalate was detected in the method blank at a concentration of 0.057 ug/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.								
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0053	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB17-SA5DN-SB-061411 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315644
LLI Group # 1251483
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 13:30

Submitted: 06/15/2011 09:10
Reported: 07/11/2011 12:16

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18011 SDG#: DE180-11EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	18b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111712AA	06/20/2011 22:51	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111671AA	06/16/2011 19:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111671AA	06/16/2011 19:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111712AA	06/20/2011 22:51	Frank A Valla, Jr	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11171WAB026	06/23/2011 03:27	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11167WAE026	07/01/2011 09:37	Joseph M Gambler	1

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Sample Description: **EB17-SA5DN-SB-061411 Water**
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315644
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Suite 210
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18011 SDG#: DE180-11EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	11171WAB026	06/20/2011 19:15	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11167WAE026	06/17/2011 06:40	Roman Kuropatkin	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111720013A	06/24/2011 16:12	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111720013A	06/21/2011 15:20	JoElla L Rice	1
01743	Aluminum	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
08014	Boron	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
01750	Calcium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
01754	Iron	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
01756	Lithium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
07058	Manganese	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
01762	Potassium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
01767	Sodium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
08068	Strontium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
07069	Tin	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
07070	Titanium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111721848002	06/24/2011 17:47	John P Hook	1
06024	Antimony	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111726050004D	06/23/2011 13:30	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111726050004C	06/23/2011 13:30	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111726050004B	06/23/2011 13:30	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111726050004A	06/23/2011 13:30	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111735713002	06/23/2011 06:35	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111721848002	06/22/2011 09:44	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111726050004	06/22/2011 09:40	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111735713002	06/22/2011 16:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11172196602C	06/21/2011 23:09	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11173281701B	06/22/2011 18:38	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11166281401A	06/15/2011 11:18	Elyse P Brunstetter	1
00200	18b pH by 9040B	SW-846 9040B	1	11166020002A	06/15/2011 20:00	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111711AA	Sample number(s): 6315631-6315635,6315637-6315642									
Acetone	11		6.7	8.0	ug/kg	191		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	107		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	104		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	109		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	80		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	139		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	112		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	107		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	111		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	110		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	75		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	90		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	111		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	61		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	112		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	107		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	109		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	108		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	107		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	106		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	110		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	111		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	107		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	108		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	107		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	102		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	104		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	111		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	112		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	103		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	105		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	140		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	114		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	109		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108		61-134		
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	112		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	111		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	112		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	111		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	110		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	110		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	106		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	102		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	109		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	107		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	108		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	90		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	115		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	111		80-120		
Batch number: E111671AA	Sample number(s): 6315643-6315644									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	103	80-123	1	30
Batch number: E111681AA	Sample number(s): 6315631-6315635,6315637-6315642									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	100	103	70-130	3	30
Batch number: L111712AA	Sample number(s): 6315643-6315644									
Acetone	6	U	6.	20	ug/l	88	89	49-234	1	30
Benzene	0.5	U	0.5	5	ug/l	98	99	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	95	97	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	95	98	80-120	3	30
Bromodichloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
Bromoform	1	U	1.	5	ug/l	83	84	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	90	93	44-120	4	30
2-Butanone	3	U	3.	10	ug/l	86	88	66-151	2	30
n-Butylbenzene	1	U	1.	5	ug/l	98	99	74-120	1	30
sec-Butylbenzene	1	U	1.	5	ug/l	95	96	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
Carbon Tetrachloride	1	U	1.	5	ug/l	87	88	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
Chloroethane	1	U	1.	5	ug/l	87	90	49-129	3	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	93	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	94	96	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	94	98	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	96	99	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	41	40	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	83	83	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	90	91	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	100	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	92	95	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	96	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	97	97	80-120	0	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	86	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	95	99	79-120	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	94	95	70-130	0	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	89	74-123	3	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	98	80-120	3	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	95	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	96	98	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	99	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	92	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	91	94	80-120	3	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	90	92	80-120	2	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	90	90	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	100	79-120	1	30
Freon 113	2	U	2.	10	ug/l	83	87	69-128	5	30
Freon 133a	2	U	2.	5	ug/l	84	84	77-120	0	30
Hexachlorobutadiene	2	U	2.	5	ug/l	85	88	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	85	88	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	97	101	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	95	94	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	91	93	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	84	86	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	95	98	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	96	97	80-120	2	30
Styrene	1	U	1.	5	ug/l	96	99	80-120	2	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	93	94	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	97	98	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	94	98	80-121	4	30
Toluene	0.7	U	0.7	5	ug/l	101	103	79-120	2	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	87	90	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	83	86	67-120	3	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	90	94	75-127	4	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	97	99	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	94	96	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	93	97	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	97	99	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	96	97	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	92	95	65-125	3	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	101	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
Batch number: 11167WAE026	Sample number(s): 6315644									
Acenaphthene	0.010	U	0.010	0.050	ug/l	96	95	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	87	86	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	94	94	66-111	0	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	103	101	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	102	103	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	107	107	69-123	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	108	107	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	110	109	59-130	1	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	103	100	40-138	3	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	104	105	74-131	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	101	100	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	106	106	55-134	0	30
Diethylphthalate	0.057	J	0.050	1.0	ug/l	97	94	57-134	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	82	79	40-119	3	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	109	104	57-154	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	97	98	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	92	91	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	108	109	69-124	0	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	103	104	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	92	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	94	95	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	78	75	36-89	5	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	111	108	57-145	3	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	92	93	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	95	95	69-118	0	30
Batch number: 11171SLA026	Sample number(s): 6315631-6315635,6315637-6315642									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	78		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	86		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	92		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	86		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 11171WAB026	Sample number(s): 6315644									
Aniline	1	U	1.	5	ug/l	72	82	49-101	14	30
Benzidine	20	U	20.	60	ug/l	70	83	34-117	18	30
Benzoic acid	6	U	6.	15	ug/l	47	39	10-69	18	30
Benzyl alcohol	5	U	5.	15	ug/l	83	84	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	97	91	82-117	7	30
Carbazole	1	U	1.	5	ug/l	97	94	81-114	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	94	93	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	55	68	42-124	21	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	103	95	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	92	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	97	98	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	74	70	54-132	6	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	95	92	82-111	4	30
Dibenzofuran	1	U	1.	5	ug/l	96	94	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	92	55-118	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	94	50-119	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	53-119	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	57	67	49-111	16	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	94	80-109	3	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	93	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	97	97	70-130	0	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	97	97	78-119	0	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	93	92	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	95	94	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	92	94	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	103	99	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	94	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	95	94	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	86	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	90	89	52-113	1	30
Isophorone	1	U	1.	5	ug/l	99	96	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	87	87	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	79	81	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	96	94	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	94	97	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	76	77	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	97	96	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	98	91	86-120	7	30
4-Nitrophenol	10	U	10.	30	ug/l	51	49	16-78	4	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	93	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	97	93	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	94	93	53-110	1	30
Phenol	1	U	1.	5	ug/l	45	46	21-67	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	93	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	94	92	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	97	95	81-113	2	30
Batch number: 11172SLC026	Sample number(s): 6315631-6315635,6315637-6315642									
Acenaphthene	17	U	17.	170	ug/kg	97		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170	U	170.	500	ug/kg	78		34-94		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200	U	1,200.	3,300	ug/kg	61		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	102		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	94		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	92		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	99		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	89		67-125		
Benzoic acid	170	U	170.	500	ug/kg	97		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	105		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	96		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	70		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	84		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	79		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		79-110		
Chrysene	17	U	17.	170	ug/kg	99		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	99		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	80		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	93		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	96		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	93		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	107		75-117		
Fluoranthene	17	U	17.	170	ug/kg	94		78-116		
Fluorene	17	U	17.	170	ug/kg	92		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	92		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	89		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	102		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	84		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	69		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	93		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	94		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	88		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	88		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	102		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	90		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	98		78-111		
Batch number: 11174SLD026	Sample number(s): 6315631-6315635,6315637-6315642									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	84		70-130		
Batch number: 11166B34A	Sample number(s): 6315631-6315635,6315637-6315642									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11173A20A	Sample number(s): 6315643									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	109	75-135	9	30
Batch number: 111710007A	Sample number(s): 6315631-6315635,6315637-6315642									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	112		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	113		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	99	97	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	98	97	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	118		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	109		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	112		80-120		
HMX	100 U		100.	300	ug/kg	100		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	112		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	112		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	119		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	110		80-120		
PETN	800 U		800.	2,400	ug/kg	104		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	117		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	117		80-120		
Batch number: 111710006A	Sample number(s): 6315631-6315635,6315637-6315642									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	95		80-126		
Batch number: 111660019A	Sample number(s): 6315632,6315637									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 111670028A	Sample number(s): 6315631-6315635,6315637-6315642									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	81	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	90		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	112		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111720013A	Sample number(s): 6315644									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	62	82	35-84	28	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	96	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1260	0.15	U	0.15	0.50	ug/l	96	96	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111720037A	Sample number(s): 6315631-6315635,6315637-6315642									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	94		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	75		54-107		
Batch number: 111660030A	Sample number(s): 6315631-6315635,6315637-6315642									
Ethanol	150	J	100.	500	ug/kg	88		71-129		
Isopropanol	100	U	100.	500	ug/kg	82		75-125		
Methanol	100	U	100.	500	ug/kg	87		68-129		
Batch number: 111670001A	Sample number(s): 6315631-6315635,6315637-6315642									
Diethylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Batch number: 111720008A	Sample number(s): 6315631-6315635,6315637-6315642									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	83		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
Batch number: 111681026002A	Sample number(s): 6315631-6315642									
Antimony	0.0725	U	0.0725	0.196	mg/kg	65		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	100		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	101		86-111		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	102		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	102		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	97		82-118		
Copper	0.109	J	0.0784	0.392	mg/kg	93		83-110		
Lead	0.0100	U	0.0100	0.196	mg/kg	95		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	90		81-110		
Silver	0.0139	U	0.0139	0.0980	mg/kg	98		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	99		83-110		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	93		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	100		81-112		
Batch number: 111681026002B	Sample number(s): 6315631-6315642									
Selenium	0.0569	U	0.0569	0.392	mg/kg	100		83-111		
Batch number: 111681026002C	Sample number(s): 6315631-6315642									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	103		78-122		
Batch number: 111681026002D	Sample number(s): 6315631-6315642									
Barium	0.104	U	0.104	0.392	mg/kg	99		81-111		
Batch number: 111685708003	Sample number(s): 6315631-6315642									
Aluminum	6.05	U	6.05	20.0	mg/kg	86		61-110		
Boron	0.483	J	0.360	5.00	mg/kg	88		78-110		
Calcium	10.7	J	2.50	20.0	mg/kg	98		88-110		
Iron	3.28	J	2.61	20.0	mg/kg	79		61-110		

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Quality Control Summary

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lithium	0.62 U	0.62	2.0	mg/kg	99		80-120		
Magnesium	1.44 J	0.440	10.0	mg/kg	92		82-110		
Manganese	0.0550 J	0.0360	0.500	mg/kg	94		89-112		
Phosphorus	1.59 J	0.350	10.0	mg/kg	102		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	92		78-110		
Sodium	5.95 U	5.95	100	mg/kg	94		87-110		
Strontium	0.0550 J	0.0250	0.500	mg/kg	97		86-110		
Tin	2.05 J	0.320	10.0	mg/kg	94		90-114		
Zirconium	0.460 U	0.460	5.00	mg/kg	99		80-120		
Batch number: 111685711004	Sample number(s): 6315631-6315642								
Mercury	0.0133 J	0.0067	0.0952	mg/kg	102		88-123		
Batch number: 111721848002	Sample number(s): 6315644								
Aluminum	0.0801 U	0.0801	0.200	mg/l	103	103	90-112	0	20
Boron	0.0034 J	0.0022	0.0500	mg/l	102	101	89-110	1	20
Calcium	0.0705 U	0.0705	0.200	mg/l	104	103	90-112	1	20
Iron	0.0141 U	0.0141	0.200	mg/l	104	102	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	103	103	80-120	0	20
Magnesium	0.0092 J	0.0067	0.100	mg/l	101	101	89-110	0	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	107	106	90-110	1	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	105	103	80-120	2	20
Potassium	0.0874 U	0.0874	0.500	mg/l	102	101	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	105	104	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	105	103	90-110	2	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	105	105	90-113	1	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	109	110	80-120	1	20
Batch number: 111726050004A	Sample number(s): 6315644								
Antimony	0.00042 U	0.00042	0.0010	mg/l	106	113*	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	104	86-111	1	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	107	90-113	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	105	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	96	94	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	100	100	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	102	90-113	2	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	103	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	106	90-113	2	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	103	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	104	89-116	1	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	96	97	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	101	104	90-116	4	20
Batch number: 111726050004B	Sample number(s): 6315644								
Selenium	0.00027 U	0.00027	0.0020	mg/l	105	104	85-114	1	20
Batch number: 111726050004C	Sample number(s): 6315644								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	103	89-115	1	20
Batch number: 111726050004D	Sample number(s): 6315644								
Barium	0.00069 U	0.00069	0.0020	mg/l	104	101	88-113	3	20
Batch number: 111735713002	Sample number(s): 6315644								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	95	93	80-120	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 111795708004	Sample number(s): 6315631-6315642									
Titanium	0.0710	U	0.0710	1.00	mg/kg	104		80-120		
Batch number: 11166281401A	Sample number(s): 6315644									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	102	102	90-110	0	20
Batch number: 11172196602C	Sample number(s): 6315644									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	98	98	90-110	1	20
Batch number: 11173102201A	Sample number(s): 6315631-6315632									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11173102201B	Sample number(s): 6315633-6315634,6315636-6315642									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11173281701B	Sample number(s): 6315644									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	104	89	85-115	16	20
Batch number: 11174621203A	Sample number(s): 6315631-6315634,6315636-6315642									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11175621202A	Sample number(s): 6315631-6315634,6315636-6315642									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11181243201A	Sample number(s): 6315631-6315634,6315636-6315642									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	94		80-120		
Batch number: 11166020002A	Sample number(s): 6315644									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11167039402A	Sample number(s): 6315631-6315632,6315637									
18a pH by 9045C						100		95-105		
Batch number: 11167039402B	Sample number(s): 6315633,6315636,6315638-6315642									
18a pH by 9045C						100		95-105		
Batch number: 11180162401A	Sample number(s): 6315631									
Moisture Content by 160.3						100		80-120		
Batch number: 11180162401B	Sample number(s): 6315632-6315642									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111711AA	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acetone	216*	199	15-210	1	30				
Benzene	106	105	55-143	8	30				
Bromobenzene	97	96	43-139	8	30				
Bromochloromethane	104	101	60-137	6	30				
Bromodichloromethane	102	99	53-136	6	30				
Bromoform	102	98	38-124	4	30				
Bromomethane	78	78	42-168	9	30				
2-Butanone	150	136	37-163	0	30				
n-Butylbenzene	97	94	30-146	5	30				
sec-Butylbenzene	102	98	33-157	6	30				
tert-Butylbenzene	100	98	41-152	7	30				
Carbon Tetrachloride	111	109	45-153	7	30				
Chlorobenzene	102	101	49-135	8	30				
Chloroethane	73	73	39-152	9	30				
2-Chloroethyl Vinyl Ether	90	87	32-139	6	30				
Chloroform	107	105	61-142	8	30				
Chloromethane	92	93	51-163	11	30				
2-Chlorotoluene	97	95	42-146	7	30				
4-Chlorotoluene	99	96	39-145	7	30				
Chlorotrifluoroethene	61*	59*	70-130	4	30				
1,2-Dibromo-3-chloropropane	106	99	30-139	2	30				
Dibromochloromethane	103	100	51-128	5	30				
1,2-Dibromoethane	105	101	54-129	5	30				
Dibromomethane	100	97	57-130	7	30				
1,2-Dichlorobenzene	94	90	36-133	5	30				
1,3-Dichlorobenzene	92	90	34-134	7	30				
1,4-Dichlorobenzene	92	90	35-136	7	30				
Dichlorodifluoromethane	83	83	26-151	9	30				
1,1-Dichloroethane	107	105	63-142	8	30				
1,2-Dichloroethane	109	106	68-131	6	30				
1,1-Dichloroethene	113	111	61-149	7	30				
cis-1,2-Dichloroethene	105	103	60-136	7	30				
trans-1,2-Dichloroethene	106	106	59-142	8	30				
1,2-Dichloropropane	101	100	62-135	9	30				
1,3-Dichloropropane	104	101	58-129	6	30				
2,2-Dichloropropane	110	110	53-147	9	30				
1,1-Dichloropropene	108	107	54-145	8	30				
cis-1,3-Dichloropropene	99	97	51-131	7	30				
trans-1,3-Dichloropropene	99	95	49-129	5	30				
Ethylbenzene	105	104	44-141	8	30				
Freon 113	117	112	56-156	5	30				
Freon 133a	103	99	61-131	4	30				
Hexachlorobutadiene	84	78	10-155	1	30				
2-Hexanone	148	137	32-160	1	30				
Isopropylbenzene	107	106	38-144	9	30				
p-Isopropyltoluene	99	96	29-152	5	30				
Methyl Tertiary Butyl Ether	106	102	55-129	5	30				
4-Methyl-2-pentanone	108	99	46-139	1	30				
Methylene Chloride	144*	109	61-141	17	30				
n-Propylbenzene	103	100	39-157	7	30				
Styrene	101	100	35-134	8	30				
1,1,1,2-Tetrachloroethane	104	105	52-130	10	30				
1,1,2,2-Tetrachloroethane	98	92	40-152	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetrachloroethene	109	106	42-149	7	30				
Toluene	105	104	50-146	8	30				
1,2,3-Trichlorobenzene	78	73	10-140	2	30				
1,2,4-Trichlorobenzene	75	72	10-136	5	30				
1,1,1-Trichloroethane	107	107	64-142	9	30				
1,1,2-Trichloroethane	103	99	54-139	5	30				
Trichloroethene	102	101	53-144	8	30				
Trichlorofluoromethane	103	102	47-163	9	30				
1,2,3-Trichloropropane	100	96	45-154	5	30				
1,2,4-Trimethylbenzene	99	97	37-149	7	30				
1,3,5-Trimethylbenzene	102	100	38-150	7	30				
Vinyl Chloride	93	94	50-154	10	30				
m+p-Xylene	107	106	44-137	9	30				
o-Xylene	102	103	42-137	10	30				
Batch number: E111681AA	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
1,4-Dioxane	98	94	70-130	7	30				
Batch number: 11171SLA026	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
Acenaphthene	81	80	63-105	1	30				
Acenaphthylene	77	76	67-114	1	30				
Anthracene	88	85	60-122	3	30				
Benzo(a)anthracene	94	93	59-128	2	30				
Benzo(a)pyrene	92	91	45-138	1	30				
Benzo(b)fluoranthene	94	95	43-155	1	30				
Benzo(g,h,i)perylene	89	88	33-141	2	30				
Benzo(k)fluoranthene	94	91	42-144	3	30				
Butylbenzylphthalate	87	88	57-173	1	30				
Di-n-butylphthalate	92	89	65-148	2	30				
Chrysene	90	89	48-134	2	30				
Dibenz(a,h)anthracene	96	101	22-133	4	30				
Diethylphthalate	92	90	70-136	2	30				
Dimethylphthalate	85	84	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	114	108	39-167	6	30				
Fluoranthene	98	95	26-166	3	30				
Fluorene	82	81	66-122	1	30				
Indeno(1,2,3-cd)pyrene	105	102	21-143	3	30				
1-Methylnaphthalene	90	88	72-123	1	30				
2-Methylnaphthalene	81	79	64-103	2	30				
Naphthalene	81	83	61-102	3	30				
N-Nitrosodimethylamine	86	87	48-113	1	30				
Di-n-octylphthalate	101	99	40-192	2	30				
Phenanthrene	85	83	12-165	2	30				
Pyrene	80	80	15-153	1	30				
Batch number: 11172SLC026	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
Acenaphthene	95	90	75-115	5	30				
Acenaphthylene	97	94	81-110	3	30				
Aniline	73	76	35-95	5	30				
Anthracene	96	93	75-115	3	30				
Benzidine	45	53	35-141	17	30				
Benzo(a)anthracene	100	96	65-122	3	30				
Benzo(a)pyrene	92	89	57-126	2	30				

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Quality Control Summary

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Reported: 07/11/11 at 12:16 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	87	84	59-125	4	30				
Benzo(g,h,i)perylene	97	95	59-127	1	30				
Benzo(k)fluoranthene	87	89	56-132	2	30				
Benzoic acid	76	70	10-173	7	30				
Benzyl alcohol	91	91	67-115	0	30				
4-Bromophenyl-phenylether	93	89	67-129	3	30				
Butylbenzylphthalate	107	101	73-134	5	30				
Di-n-butylphthalate	93	87	67-123	6	30				
Carbazole	93	93	64-120	0	30				
4-Chloro-3-methylphenol	93	91	76-110	2	30				
4-Chloroaniline	68	74	23-95	9	30				
bis(2-Chloroethoxy)methane	91	85	75-104	6	30				
bis(2-Chloroethyl)ether	85	86	60-116	2	30				
bis(2-Chloroisopropyl)ether	81	78	55-142	3	30				
2-Chloronaphthalene	101	90	50-141	11	30				
2-Chlorophenol	89	87	73-121	1	30				
4-Chlorophenyl-phenylether	92	89	80-109	3	30				
Chrysene	102	96	62-128	6	30				
Dibenz(a,h)anthracene	96	95	65-125	0	30				
Dibenzofuran	93	90	71-112	2	30				
1,2-Dichlorobenzene	84	83	66-108	1	30				
1,3-Dichlorobenzene	84	82	63-109	1	30				
1,4-Dichlorobenzene	84	82	70-100	1	30				
3,3'-Dichlorobenzidine	80	80	16-119	0	30				
2,4-Dichlorophenol	93	90	78-117	2	30				
Diethylphthalate	92	87	66-118	5	30				
2,4-Dimethylphenol	95	93	78-110	1	30				
3,5-Dimethylphenol	99	95	70-130	4	30				
Dimethylphthalate	93	88	64-118	5	30				
4,6-Dinitro-2-methylphenol	93	90	24-116	3	30				
2,4-Dinitrophenol	88	87	20-143	0	30				
2,4-Dinitrotoluene	92	91	73-113	0	30				
2,6-Dinitrotoluene	95	92	69-123	2	30				
1,2-Diphenylhydrazine	103	95	71-129	7	30				
bis(2-Ethylhexyl)phthalate	109	102	63-122	6	30				
Fluoranthene	92	91	73-112	0	30				
Fluorene	91	90	77-111	0	30				
Hexachlorobenzene	96	90	77-114	7	30				
Hexachlorobutadiene	90	85	62-120	5	30				
Hexachlorocyclopentadiene	84	80	10-153	5	30				
Hexachloroethane	85	81	57-109	4	30				
Indeno(1,2,3-cd)pyrene	99	97	61-126	2	30				
Isophorone	92	89	73-102	3	30				
1-Methylnaphthalene	91	88	73-112	2	30				
2-Methylnaphthalene	83	81	76-114	2	30				
2-Methylphenol	88	85	75-111	3	30				
4-Methylphenol	85	85	71-111	0	30				
Naphthalene	90	89	72-116	1	30				
2-Nitroaniline	97	96	67-125	0	30				
3-Nitroaniline	86	87	59-122	2	30				
4-Nitroaniline	68	72	52-112	6	30				
Nitrobenzene	92	90	72-106	2	30				
2-Nitrophenol	93	90	74-115	2	30				

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Quality Control Summary

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Reported: 07/11/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Nitrophenol	83	82	54-113	1	30				
N-Nitroso-di-n-propylamine	84	83	60-116	1	30				
N-Nitrosodimethylamine	88	87	47-116	0	30				
N-Nitrosodiphenylamine	100	94	86-145	6	30				
Di-n-octylphthalate	89	85	56-126	4	30				
Pentachlorophenol	90	89	28-127	1	30				
Phenanthrene	93	90	65-125	3	30				
Phenol	91	89	58-126	1	30				
Pyrene	105	96	74-126	8	30				
1,2,4-Trichlorobenzene	95	90	72-115	4	30				
2,4,5-Trichlorophenol	97	91	78-109	6	30				
2,4,6-Trichlorophenol	96	94	77-115	1	30				
Batch number: 11174SLD026	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
N-Nitrosodimethylamine	85	80	70-130	7	30				
Batch number: 11166B34A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
9a TPH by EPA 8015B Gas C5-C12	62	64	39-118	3	30				
Batch number: 111710007A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
4-Amino-2,6-Dinitrotoluene	114	114	80-127	0	50				
2-Amino-4,6-Dinitrotoluene	111	110	80-137	1	50				
1,3-Dinitrobenzene	117	115	38-166	2	50				
2,4-Dinitrotoluene	107	107	80-131	0	50				
2,6-Dinitrotoluene	111	110	80-127	1	50				
HMX	98	97	63-128	1	50				
Nitrobenzene	110	110	80-125	0	50				
Nitroglycerin	97	95	80-120	2	50				
2-Nitrotoluene	109	111	80-122	2	50				
3-Nitrotoluene	117	118	72-119	1	50				
4-Nitrotoluene	108	110	80-125	1	50				
PETN	107	105	80-121	1	50				
RDX	91	91	75-129	1	50				
Tetryl	99	91	55-174	8	50				
1,3,5-Trinitrobenzene	107	100	82-126	7	50				
2,4,6-Trinitrotoluene	114	113	82-130	1	50				
Batch number: 111710006A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
25a Formaldehyde 8315A	100	96	80-120	4	50				
Batch number: 111660019A	Sample number(s): 6315632,6315637 UNSPK: P309737								
6a Perchlorate EPA 6850	104	100	80-120	4	20				
Batch number: 111670028A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
PCB-1016	87	89	29-146	2	50				
PCB-1260	85	95	39-149	10	50				
Batch number: 111720037A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
EFH (C12-C14)	0*	95	49-123	200*	20				
EFH (C15-C20)	344*	139*	49-123	85*	20				
EFH (C21-C30)	2840 (2)	21 (2)	49-123	151*	20				
EFH (C30 - C40)	5317	171 (2)	49-123	142*	20				

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Reported: 07/11/11 at 12:16 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C8-C11)	0* (2)	36*	49-123	200*	20				
Batch number: 111660030A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
Ethanol	74	74	48-130	0	20				
Isopropanol	72	70	12-149	3	20				
Methanol	73	74	43-138	0	20				
Batch number: 111670001A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
Diethylene glycol	50*	53*	59-109	6	20				
Ethylene glycol	73	77	63-107	5	20				
Propylene glycol	78	83	63-107	6	20				
Batch number: 111720008A	Sample number(s): 6315631-6315635,6315637-6315642 UNSPK: 6315633								
m-Terphenyl	68*	69*	75-125	1	20				
o-Terphenyl	80	80	75-125	1	20				
p-Terphenyl	83	81	75-125	3	20				
Batch number: 111681026002A	Sample number(s): 6315631-6315642 UNSPK: 6315633 BKG: 6315633								
Antimony	33*	45*	75-125	27*	20	0.0806 J	0.0705 U	200* (1)	20
Arsenic	79	92	75-125	4	20	5.08	4.45	13	20
Beryllium	91	86	75-125	2	20	0.702	0.732	4	20
Cadmium	90	102	75-125	12	20	0.248	0.255	3 (1)	20
Chromium	94	82	75-125	3	20	25.8	24.5	5	20
Cobalt	89	90	75-125	2	20	9.34	9.52	2	20
Copper	82	70*	75-125	5	20	12.2	11.7	4	20
Lead	65*	62*	75-125	0	20	7.88	7.92	1	20
Nickel	75	64*	75-125	4	20	15.8	15.8	0	20
Silver	101	102	75-125	4	20	0.0422 J	0.0493 J	16 (1)	20
Thallium	110	103	75-125	3	20	0.298	0.286	4 (1)	20
Vanadium	110 (2)	85 (2)	75-125	4	20	45.3	38.5	16	20
Zinc	156 (2)	-29 (2)	75-125	26*	20	64.5	62.6	3	20
Batch number: 111681026002B	Sample number(s): 6315631-6315642 UNSPK: 6315633 BKG: 6315633								
Selenium	92	97	75-125	7	20	0.0916 J	0.119 J	26* (1)	20
Batch number: 111681026002C	Sample number(s): 6315631-6315642 UNSPK: 6315633 BKG: 6315633								
Molybdenum	91	97	75-125	8	20	0.276	0.291	5 (1)	20
Batch number: 111681026002D	Sample number(s): 6315631-6315642 UNSPK: 6315633 BKG: 6315633								
Barium	9 (2)	-52 (2)	75-125	5	20	125	119	5	20
Batch number: 111685708003	Sample number(s): 6315631-6315642 UNSPK: 6315633 BKG: 6315633								
Aluminum	1095 (2)	1773 (2)	75-125	5	20	24,900	23,600	5	20
Boron	93	95	84-115	2	20	2.02 J	1.88 J	7 (1)	20
Calcium	-439 (2)	-253 (2)	75-125	6	20	13,100	21,700	49*	20
Iron	3647 (2)	4280 (2)	75-125	2	20	26,200	26,800	2	20
Lithium	98	102	82-114	3	20	21.7	20.8	4	20
Magnesium	1 (2)	325 (2)	75-125	10	20	5,950	5,690	5	20
Manganese	195 (2)	270 (2)	75-125	10	20	249	455	59*	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Phosphorus	147*	197*	75-125	13	20	196		209		6	20
Potassium	142*	156*	75-125	3	20	2,690		2,720		1	20
Sodium	89	94	75-125	4	20	358		342		5 (1)	20
Strontium	92	95	75-115	3	20	37.6		38.8		3	20
Tin	85	87	80-110	2	20	2.65	J	2.34	J	12 (1)	20
Zirconium	95	96	75-125	1	20	3.86	J	4.49	J	15 (1)	20
Batch number: 111685711004	Sample number(s): 6315631-6315642 UNSPK: 6315633 BKG: 6315633										
Mercury	84	68*	80-120	14	20	0.0594	J	0.0371	J	46* (1)	20
Batch number: 111795708004	Sample number(s): 6315631-6315642 UNSPK: 6315633 BKG: 6315633										
Titanium	235 (2)	220 (2)	75-125	1	20	1,060		1,030		3	20
Batch number: 11166281401A	Sample number(s): 6315644 UNSPK: P315711 BKG: P315711										
3b Cr VI by EPA 7199	97		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 11173102201A	Sample number(s): 6315631-6315632 UNSPK: P314462 BKG: P314462										
17a Cyanide by 9012B	94		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11173102201B	Sample number(s): 6315633-6315634,6315636-6315642 UNSPK: 6315633 BKG: 6315633										
17a Cyanide by 9012B	95		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11174621203A	Sample number(s): 6315631-6315634,6315636-6315642 UNSPK: 6315633 BKG: 6315633										
7a Perchlorate EPA 314.0	99		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11175621202A	Sample number(s): 6315631-6315634,6315636-6315642 UNSPK: 6315633 BKG: 6315633										
11a Anions by 300.0 - Fluoride	72*		80-120			4.5		3.1		37* (1)	20
11a Anions by 300.0 - Nitrate	91		80-120			1.7		1.6		2 (1)	20
Batch number: 11181243201A	Sample number(s): 6315631-6315634,6315636-6315642 UNSPK: 6315633 BKG: 6315633										
3a Cr VI by EPA 7199	91		75-125			0.68	J	0.69	J	1 (1)	20
Batch number: 11167039402A	Sample number(s): 6315631-6315632,6315637 BKG: P314468										
18a pH by 9045C						8.15		8.17		0	3
Batch number: 11167039402B	Sample number(s): 6315633,6315636,6315638-6315642 BKG: 6315633										
18a pH by 9045C						8.58		8.54		0	3
Batch number: 11180162401A	Sample number(s): 6315631 BKG: P314468										
Moisture Content by 160.3						10.8		10		8	20
Batch number: 11180162401B	Sample number(s): 6315632-6315642 BKG: 6315633										
28a Moisture Content by 160.3						14.0		15.3		9	20
Moisture Content by 160.3						14.0		15.3		9	20
Moisture Content by 160.3						14.0		15.3		9	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Surrogate Quality Control

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111711AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6315631	105	113	100	100
6315632	102	101	103	97
6315633	103	104	101	96
6315634	102	106	103	103
6315635	101	103	104	103
6315637	102	105	100	97
6315638	103	104	100	98
6315639	102	101	100	96
6315640	101	99	101	95
6315641	103	102	101	95
6315642	103	103	101	95
Blank	103	110	100	99
LCS	101	102	104	103
MS	102	106	103	103
MSD	101	103	104	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111671AA

	Toluene-d8
6315643	101
6315644	101
Blank	101
LCS	101
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111681AA

	Toluene-d8
6315631	98
6315632	99
6315633	98
6315634	98
6315635	98
6315637	99
6315638	98
6315639	98
6315640	98
6315641	99
6315642	98
Blank	99
LCS	99
LCSD	99
MS	98
MSD	98
Limits:	70-130

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Surrogate Quality Control

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111712AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6315643	102	104	102	98
6315644	102	102	101	98
Blank	101	105	102	98
LCS	104	102	103	102
LCSD	103	101	103	101
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11167WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6315644	106	86	101
Blank	115	96	115
LCS	111	92	104
LCSD	112	90	103
Limits:	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11171SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6315631	95	75	88
6315632	101	81	89
6315633	97	79	92
6315634	99	81	88
6315635	100	81	87
6315637	95	78	88
6315638	98	79	88
6315639	96	78	87
6315640	101	82	92
6315641	100	79	73
6315642	97	77	81
Blank	96	84	100
LCS	103	85	96
MS	99	81	88
MSD	100	81	87
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11171WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6315644	61	40	87	89	86	81
Blank	69	48	92	93	89	84
LCS	73	47	94	99	99	91
LCSD	74	50	94	99	97	89
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11172SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6315631	79	79	89	76	78	89
6315632	84	84	92	84	90	89
6315633	77	75	80	71	73	81
6315634	88	88	90	88	91	90
6315635	88	88	91	90	88	86
6315637	84	87	86	86	86	85
6315638	79	79	87	79	83	88
6315639	79	80	84	74	77	86
6315640	83	82	86	80	81	87
6315641	85	86	85	87	92	89
6315642	81	78	88	87	87	92
Blank	84	86	88	87	89	86
LCS	90	94	92	93	91	90
MS	88	88	90	88	91	90
MSD	88	88	91	90	88	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 15a NDMA by 1625C
Batch number: 11174SLD026

	N-Nitrosodimethylamine-d6
6315631	97
6315632	98
6315633	103
6315634	107
6315635	107
6315637	108
6315638	98
6315639	101
6315640	105
6315641	109
6315642	110
Blank	107
LCS	112
MS	1075*
MSD	1070*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11166B34A

	Trifluorotoluene-F
6315631	77
6315632	75
6315633	82
6315634	81
6315635	73
6315637	70
6315638	73
6315639	72

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Surrogate Quality Control

6315640	81
6315641	79
6315642	75
Blank	83
LCS	89
MS	81
MSD	73
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11173A20A

	Trifluorotoluene-F
6315643	87
Blank	86
LCS	120
LCSD	126
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111670028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6315631	82	97
6315632	94	103
6315633	101	88
6315634	104	96
6315635	101	102
6315637	96	102
6315638	93	103
6315639	87	99
6315640	96	106
6315641	92	86
6315642	88	88
Blank	102	105
LCS	105	108
LCSD	98	115
MS	104	96
MSD	101	102
Limits:	53-139	45-120

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111710006A

	Butyraldehyde
6315631	99
6315632	129*
6315633	83
6315634	110
6315635	126
6315637	88
6315638	106
6315639	81
6315640	84

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Surrogate Quality Control

6315641	96
6315642	88
Blank	115
LCS	87
MS	110
MSD	126
Limits:	64-126

Analysis Name: 16a Energetics by 8330A
Batch number: 111710007A

	2-Nitro-m-xylene
6315631	115
6315632	117
6315633	120
6315634	121
6315635	113
6315637	114
6315638	109
6315639	106
6315640	104
6315641	109
6315642	115
Blank	118
LCS	120
LCSD	116
MS	121
MSD	113
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111720013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6315644	106	95
Blank	107	103
LCS	101	89
LCSD	110	80
Limits:	30-150	45-120

Analysis Name: 19a Alcohols by 8015B
Batch number: 111660030A

	Acetone
6315631	76
6315632	79
6315633	75
6315634	75
6315635	75
6315637	77
6315638	78
6315639	76
6315640	78
6315641	74

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Surrogate Quality Control

6315642	73
Blank	92
LCS	91
MS	75
MSD	75

Limits: 42-138

Analysis Name: 21a Glycols by 8015B
Batch number: 111670001A

	Tetramethylene glycol
6315631	95
6315632	88
6315633	91
6315634	95
6315635	94
6315637	105
6315638	92
6315639	98
6315640	73
6315641	85
6315642	89
Blank	83
LCS	91
MS	95
MSD	94

Limits: 29-137

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111720008A

	n-Triacontane-d62
6315631	93
6315632	90
6315633	106
6315634	97
6315635	108
6315637	88
6315638	102
6315639	88
6315640	95
6315641	126
6315642	97
Blank	93
LCS	92
MS	97
MSD	108

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111720037A

	Chlorobenzene	Orthoterphenyl
6315631	59	72

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251483
Reported: 07/11/11 at 12:16 PM

Surrogate Quality Control

6315632	78	88
6315633	92	107
6315634	92	116
6315635	87	102
6315637	61	89
6315638	66	78
6315639	69	88
6315640	74	86
6315641	69	96
6315642	73	88
Blank	86	95
LCS	88	98
MS	92	116
MSD	87	102
Limits:	37-125	47-145

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1251483 Sample#6315631-44

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/8471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-032-SA5DN-SB-4.5	06.14.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-032-SA5DN-SB-4.0-5.0	06.14.11	1220	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-032-SA5DN-SB-10.5	06.14.11	1210	SOIL	NONE	5-Encores										X	X	X										
SL-032-SA5DN-SB-10.0-11.0	06.14.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-033-SA5DN-SB-4.5MS	06.14.11	1030	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-033-SA5DN-SB-4.0-5.0MS	06.14.11	1035	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-033-SA5DN-SB-11.5	06.14.11	1045	SOIL	NONE	5-Encores										X	X	X										
SL-033-SA5DN-SB-11.0-12.0	06.14.11	1150	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-035-SA5DN-SB-4.5	06.14.11	0850	SOIL	NONE	5-Encores										X	X	X										
SL-035-SA5DN-SB-4.0-5.0	06.14.11	0855	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-035-SA5DN-SB-10.0	06.14.11	0900	SOIL	NONE	5-Encores										X	X	X										
SL-035-SA5DN-SB-9.5-10.5	06.14.11	0905	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-044-SA5DN-SB-4.5	06.14.11	1450	SOIL	NONE	5-Encores										X	X	X										
SL-044-SA5DN-SB-4.0-5.0	06.14.11	1455	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-044-SA5DN-SB-12.5	06.14.11	1500	SOIL	NONE	5-Encores										X	X	X										
SL-044-SA5DN-SB-12.0-13.0	06.14.11	1505	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP14-SA5DN-QC-061411	06.14.11	1040	SOIL	NONE	5-Encores										X	X	X										
DUP14-SA5DN-QC-061411	06.14.11	1045	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-061411	06.14.11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (*Signature*) — Date/Time: 06/14/2011 / 1700

Received for Laboratory by: (*Signature*) Yang Yuk 6/15/11 910

Received by: (*Signature*) — Date/Time

Airbill No(s): 8754 3349 1846, 1857, 1868

Laboratory: Lancaster Laboratories, Inc.

acct#13013 Cp#1251483 Sample#6315631-44

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	NONE	5-1 L Ambers			X	X	X								
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	NONE	1-500mL plastic		X				X	X	X					
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	HNO3	1-500 poly	X												
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	HCL	6-40mL Vials										X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	06/14/2011 / 1700	6/15/11 910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	
		8754 3349 1835,1846,1857,1868	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/15/2011
Group Number: 1251485
SDG: DX102
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA5DN-SB-4.0-5.0 Soil	6315646
SL-032-SA5DN-SB-10.0-11.0 Soil	6315647
SL-033-SA5DN-SB-4.0-5.0 Soil	6315648
SL-033-SA5DN-SB-4.0-5.0MS Soil	6315649
SL-033-SA5DN-SB-4.0-5.0MSD Soil	6315650
SL-033-SA5DN-SB-11.0-12.0 Soil	6315651
SL-035-SA5DN-SB-4.0-5.0 Soil	6315652
SL-035-SA5DN-SB-9.5-10.5 Soil	6315653
SL-044-SA5DN-SB-4.0-5.0 Soil	6315654
SL-044-SA5DN-SB-12.0-13.0 Soil	6315655
DUP14-SA5DN-QC-061411 Soil	6315656
EB17-SA5DN-SB-061411 Water	6315657

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315646
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10207 SDG#: DX102-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315646
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10207 SDG#: DX102-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0541 JBQ	0.0218	1.10	1
11031	12378-PeCDD	40321-76-4	0.244 JB	0.0244	5.51	1
11031	123478-HxCDD	39227-28-6	0.135 JBQ	0.0206	5.51	1
11031	123678-HxCDD	57653-85-7	0.123 JB	0.0211	5.51	1
11031	123789-HxCDD	19408-74-3	0.137 JBQ	0.0209	5.51	1
11031	1234678-HpCDD	35822-46-9	0.500 JB	0.0245	5.51	1
11031	OCDD	3268-87-9	1.52 JB	0.0219	11.0	1
11031	2378-TCDF	51207-31-9	0.0930 JBQ	0.0228	1.10	1
11031	12378-PeCDF	57117-41-6	0.244 JB	0.0107	5.51	1
11031	23478-PeCDF	57117-31-4	0.250 JBQ	0.0104	5.51	1
11031	123478-HxCDF	70648-26-9	0.137 JB	0.0108	5.51	1
11031	123678-HxCDF	57117-44-9	0.163 JB	0.00958	5.51	1
11031	123789-HxCDF	72918-21-9	0.112 JBQ	0.0128	5.51	1
11031	234678-HxCDF	60851-34-5	0.0947 JB	0.0103	5.51	1
11031	1234678-HpCDF	67562-39-4	0.106 JB	0.00787	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0694 JB	0.0123	5.51	1
11031	OCDF	39001-02-0	0.161 JBQ	0.0238	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	71	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-032-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315646
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10207 SDG#: DX102-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-032-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315646
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:20

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10207 SDG#: DX102-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 00:53	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401A	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315647
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10208 SDG#: DX102-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315647
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10208 SDG#: DX102-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0699 JBQ	0.0239	1.08	1
11031	12378-PeCDD	40321-76-4	0.0772 JBQ	0.0279	5.42	1
11031	123478-HxCDD	39227-28-6	0.0507 JBQ	0.0376	5.42	1
11031	123678-HxCDD	57653-85-7	0.117 JBQ	0.0370	5.42	1
11031	123789-HxCDD	19408-74-3	0.124 JB	0.0346	5.42	1
11031	1234678-HpCDD	35822-46-9	0.495 JB	0.0424	5.42	1
11031	OCDD	3268-87-9	0.938 JB	0.0371	10.8	1
11031	2378-TCDF	51207-31-9	0.0269 JBQ	0.0210	1.08	1
11031	12378-PeCDF	57117-41-6	0.0847 JB	0.0115	5.42	1
11031	23478-PeCDF	57117-31-4	0.132 JB	0.0112	5.42	1
11031	123478-HxCDF	70648-26-9	0.0643 JBQ	0.0198	5.42	1
11031	123678-HxCDF	57117-44-9	0.0700 JBQ	0.0169	5.42	1
11031	123789-HxCDF	72918-21-9	0.104 JBQ	0.0224	5.42	1
11031	234678-HxCDF	60851-34-5	0.0776 JBQ	0.0187	5.42	1
11031	1234678-HpCDF	67562-39-4	0.118 JBQ	0.0180	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0966 JBQ	0.0296	5.42	1
11031	OCDF	39001-02-0	0.273 JB	0.0374	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	72	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-032-SA5DN-SB-10.0-11.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315647
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 12:25

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10208 SDG#: DX102-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-032-SA5DN-SB-10.0-11.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DN-SB-10.0-11.0

LLI Sample # SW 6315647
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Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10208 SDG#: DX102-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 04:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315648
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315648
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0244 JBQ	0.0190	1.12	1
11031	12378-PeCDD	40321-76-4	0.0241 U	0.0241	5.62	1
11031	123478-HxCDD	39227-28-6	0.0715 JBQ	0.0334	5.62	1
11031	123678-HxCDD	57653-85-7	0.264 JB	0.0341	5.62	1
11031	123789-HxCDD	19408-74-3	0.300 JB	0.0324	5.62	1
11031	1234678-HpCDD	35822-46-9	2.80 JB	0.0434	5.62	1
11031	OCDD	3268-87-9	14.7 B	0.0343	11.2	1
11031	2378-TCDF	51207-31-9	0.0326 JBQ	0.0185	1.12	1
11031	12378-PeCDF	57117-41-6	0.0797 JBQ	0.0127	5.62	1
11031	23478-PeCDF	57117-31-4	0.121 JB	0.0120	5.62	1
11031	123478-HxCDF	70648-26-9	0.0202 U	0.0202	5.62	1
11031	123678-HxCDF	57117-44-9	0.0548 JBQ	0.0172	5.62	1
11031	123789-HxCDF	72918-21-9	0.259 JBQ	0.0216	5.62	1
11031	234678-HxCDF	60851-34-5	0.0447 JBQ	0.0177	5.62	1
11031	1234678-HpCDF	67562-39-4	0.170 JB	0.0163	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0887 JB	0.0271	5.62	1
11031	OCDF	39001-02-0	0.446 JB	0.0334	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	69	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315648
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315648
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 05:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315649
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315649
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.2	B	0.0527	1.16	1
11031	12378-PeCDD	40321-76-4	110	B	0.0627	5.81	1
11031	123478-HxCDD	39227-28-6	112	B	0.0545	5.81	1
11031	123678-HxCDD	57653-85-7	110	B	0.0536	5.81	1
11031	123789-HxCDD	19408-74-3	109	B	0.0524	5.81	1
11031	1234678-HpCDD	35822-46-9	110	B	0.0594	5.81	1
11031	OCDD	3268-87-9	223	B	0.0485	11.6	1
11031	2378-TCDF	51207-31-9	21.7	B	0.0514	1.16	1
11031	12378-PeCDF	57117-41-6	111	B	0.0329	5.81	1
11031	23478-PeCDF	57117-31-4	107	B	0.0305	5.81	1
11031	123478-HxCDF	70648-26-9	108	B	0.0616	5.81	1
11031	123678-HxCDF	57117-44-9	108	B	0.0573	5.81	1
11031	123789-HxCDF	72918-21-9	106	B	0.0655	5.81	1
11031	234678-HxCDF	60851-34-5	109	B	0.0528	5.81	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0469	5.81	1
11031	1234789-HpCDF	55673-89-7	109	B	0.0663	5.81	1
11031	OCDF	39001-02-0	213	B	0.0526	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	88	17 - 157
13C12-1278-TCDD (CRS)	74	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315649
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315649
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 06:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315650
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315650
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.5	B	0.0303	1.15	1
11031	12378-PeCDD	40321-76-4	115	B	0.0540	5.76	1
11031	123478-HxCDD	39227-28-6	113	B	0.0547	5.76	1
11031	123678-HxCDD	57653-85-7	110	B	0.0534	5.76	1
11031	123789-HxCDD	19408-74-3	108	B	0.0514	5.76	1
11031	1234678-HpCDD	35822-46-9	119	B	0.0484	5.76	1
11031	OCDD	3268-87-9	303	B	0.0477	11.5	1
11031	2378-TCDF	51207-31-9	21.5	B	0.0730	1.15	1
11031	12378-PeCDF	57117-41-6	111	B	0.0407	5.76	1
11031	23478-PeCDF	57117-31-4	111	B	0.0407	5.76	1
11031	123478-HxCDF	70648-26-9	107	B	0.0600	5.76	1
11031	123678-HxCDF	57117-44-9	107	B	0.0542	5.76	1
11031	123789-HxCDF	72918-21-9	104	B	0.0620	5.76	1
11031	234678-HxCDF	60851-34-5	107	B	0.0526	5.76	1
11031	1234678-HpCDF	67562-39-4	106	B	0.0352	5.76	1
11031	1234789-HpCDF	55673-89-7	107	B	0.0502	5.76	1
11031	OCDF	39001-02-0	216	B	0.0435	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	117	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	98	26 - 138
13C12-OCDF	109	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315650
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315650
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:35

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10209 SDG#: DX102-09MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 07:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315651
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10210 SDG#: DX102-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315651
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10210 SDG#: DX102-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0318	JBQ	0.0178	1.11	1
11031	12378-PeCDD	40321-76-4	0.115	JB	0.0204	5.55	1
11031	123478-HxCDD	39227-28-6	0.136	JBQ	0.0197	5.55	1
11031	123678-HxCDD	57653-85-7	0.204	JBQ	0.0203	5.55	1
11031	123789-HxCDD	19408-74-3	0.182	JBQ	0.0199	5.55	1
11031	1234678-HpCDD	35822-46-9	0.871	JB	0.0277	5.55	1
11031	OCDD	3268-87-9	3.84	JB	0.0220	11.1	1
11031	2378-TCDF	51207-31-9	0.0313	JBQ	0.0193	1.11	1
11031	12378-PeCDF	57117-41-6	0.102	JBQ	0.0101	5.55	1
11031	23478-PeCDF	57117-31-4	0.142	JBQ	0.00972	5.55	1
11031	123478-HxCDF	70648-26-9	0.165	JB	0.0163	5.55	1
11031	123678-HxCDF	57117-44-9	0.129	JB	0.0120	5.55	1
11031	123789-HxCDF	72918-21-9	0.245	JBQ	0.0162	5.55	1
11031	234678-HxCDF	60851-34-5	0.138	JB	0.0136	5.55	1
11031	1234678-HpCDF	67562-39-4	0.248	JBQ	0.00939	5.55	1
11031	1234789-HpCDF	55673-89-7	0.260	JBQ	0.0191	5.55	1
11031	OCDF	39001-02-0	0.875	JB	0.0255	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	115	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	68	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5DN-SB-11.0-12.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315651
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10210 SDG#: DX102-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA5DN-SB-11.0-12.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DN-SB-11.0-12.0

LLI Sample # SW 6315651
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 11:50

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10210 SDG#: DX102-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 08:38	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315652
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10211 SDG#: DX102-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-035-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315652
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10211 SDG#: DX102-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0226 U	0.0226	1.14	1
11031	12378-PeCDD	40321-76-4	0.0221 U	0.0221	5.72	1
11031	123478-HxCDD	39227-28-6	0.0444 JBQ	0.0169	5.72	1
11031	123678-HxCDD	57653-85-7	0.0413 JBQ	0.0164	5.72	1
11031	123789-HxCDD	19408-74-3	0.0587 JBQ	0.0160	5.72	1
11031	1234678-HpCDD	35822-46-9	0.433 JBQ	0.0245	5.72	1
11031	OCDD	3268-87-9	1.91 JB	0.0232	11.4	1
11031	2378-TCDF	51207-31-9	0.0178 U	0.0178	1.14	1
11031	12378-PeCDF	57117-41-6	0.0133 JB	0.00925	5.72	1
11031	23478-PeCDF	57117-31-4	0.0631 JBQ	0.00890	5.72	1
11031	123478-HxCDF	70648-26-9	0.0296 JBQ	0.0129	5.72	1
11031	123678-HxCDF	57117-44-9	0.0457 JBQ	0.0110	5.72	1
11031	123789-HxCDF	72918-21-9	0.0714 JBQ	0.0118	5.72	1
11031	234678-HxCDF	60851-34-5	0.0334 JBQ	0.00948	5.72	1
11031	1234678-HpCDF	67562-39-4	0.0852 JB	0.00902	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0479 JBQ	0.0136	5.72	1
11031	OCDF	39001-02-0	0.243 JB	0.0311	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157
13C12-1278-TCDD (CRS)	93	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315652
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10211 SDG#: DX102-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315652
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 08:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10211 SDG#: DX102-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 09:35	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315653
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-12 SDG#: DX102-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315653
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-12 SDG#: DX102-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0188 JBQ	0.0166	1.11	1
11031	12378-PeCDD	40321-76-4	0.0241 JBQ	0.0209	5.53	1
11031	123478-HxCDD	39227-28-6	0.0313 JBQ	0.0187	5.53	1
11031	123678-HxCDD	57653-85-7	0.0605 JBQ	0.0185	5.53	1
11031	123789-HxCDD	19408-74-3	0.0778 JB	0.0184	5.53	1
11031	1234678-HpCDD	35822-46-9	0.581 JB	0.0245	5.53	1
11031	OCDD	3268-87-9	1.18 JB	0.0193	11.1	1
11031	2378-TCDF	51207-31-9	0.0180 JBQ	0.0169	1.11	1
11031	12378-PeCDF	57117-41-6	0.0423 JBQ	0.00985	5.53	1
11031	23478-PeCDF	57117-31-4	0.0868 JBQ	0.00974	5.53	1
11031	123478-HxCDF	70648-26-9	0.108 JB	0.0177	5.53	1
11031	123678-HxCDF	57117-44-9	0.0805 JB	0.0156	5.53	1
11031	123789-HxCDF	72918-21-9	0.0740 JB	0.0181	5.53	1
11031	234678-HxCDF	60851-34-5	0.172 JB	0.0174	5.53	1
11031	1234678-HpCDF	67562-39-4	0.584 JB	0.00862	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0895 JB	0.0167	5.53	1
11031	OCDF	39001-02-0	0.489 JBQ	0.0277	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA5DN-SB-9.5-10.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315653
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-12 SDG#: DX102-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-035-SA5DN-SB-9.5-10.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA5DN-SB-9.5-10.5

LLI Sample # SW 6315653
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 09:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-12 SDG#: DX102-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 10:32	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315654
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10213 SDG#: DX102-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315654
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10213 SDG#: DX102-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0194 U	0.0194	1.14	1
11031	12378-PeCDD	40321-76-4	0.0619 JBQ	0.0253	5.69	1
11031	123478-HxCDD	39227-28-6	0.0454 JBQ	0.0222	5.69	1
11031	123678-HxCDD	57653-85-7	0.240 JB	0.0226	5.69	1
11031	123789-HxCDD	19408-74-3	0.283 JBQ	0.0221	5.69	1
11031	1234678-HpCDD	35822-46-9	1.60 JB	0.0253	5.69	1
11031	OCDD	3268-87-9	11.2 JB	0.0227	11.4	1
11031	2378-TCDF	51207-31-9	0.0327 JBQ	0.0272	1.14	1
11031	12378-PeCDF	57117-41-6	0.268 JBQ	0.0168	5.69	1
11031	23478-PeCDF	57117-31-4	0.185 JBQ	0.0164	5.69	1
11031	123478-HxCDF	70648-26-9	0.132 JBQ	0.0228	5.69	1
11031	123678-HxCDF	57117-44-9	0.131 JBQ	0.0209	5.69	1
11031	123789-HxCDF	72918-21-9	0.382 JB	0.0241	5.69	1
11031	234678-HxCDF	60851-34-5	0.174 JB	0.0216	5.69	1
11031	1234678-HpCDF	67562-39-4	0.611 JB	0.00976	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0999 JBQ	0.0167	5.69	1
11031	OCDF	39001-02-0	0.657 JB	0.0231	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315654
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10213 SDG#: DX102-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-4.0-5.0

LLI Sample # SW 6315654
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 14:55

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10213 SDG#: DX102-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 11:28	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315655
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10214 SDG#: DX102-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315655
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10214 SDG#: DX102-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0564	JBQ	0.0235	1.10	1
11031	12378-PeCDD	40321-76-4	0.166	JBQ	0.0262	5.52	1
11031	123478-HxCDD	39227-28-6	0.109	JBQ	0.0232	5.52	1
11031	123678-HxCDD	57653-85-7	0.138	JBQ	0.0229	5.52	1
11031	123789-HxCDD	19408-74-3	0.157	JBQ	0.0227	5.52	1
11031	1234678-HpCDD	35822-46-9	1.02	JB	0.0250	5.52	1
11031	OCDD	3268-87-9	3.77	JB	0.0264	11.0	1
11031	2378-TCDF	51207-31-9	0.0421	JBQ	0.0290	1.10	1
11031	12378-PeCDF	57117-41-6	0.316	JB	0.0140	5.52	1
11031	23478-PeCDF	57117-31-4	0.242	JBQ	0.0142	5.52	1
11031	123478-HxCDF	70648-26-9	0.232	JBQ	0.0218	5.52	1
11031	123678-HxCDF	57117-44-9	0.192	JB	0.0182	5.52	1
11031	123789-HxCDF	72918-21-9	0.113	JBQ	0.0255	5.52	1
11031	234678-HxCDF	60851-34-5	0.229	JB	0.0197	5.52	1
11031	1234678-HpCDF	67562-39-4	0.600	JB	0.0104	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0976	JBQ	0.0215	5.52	1
11031	OCDF	39001-02-0	0.552	JBQ	0.0297	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157
13C12-1278-TCDD (CRS)	75	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-044-SA5DN-SB-12.0-13.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315655
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10214 SDG#: DX102-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-044-SA5DN-SB-12.0-13.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-044-SA5DN-SB-12.0-13.0

LLI Sample # SW 6315655
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 15:05

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10214 SDG#: DX102-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 12:25	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315656
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-15 SDG#: DX102-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315656
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-15 SDG#: DX102-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0727	JBQ	0.0228	1.14	1
11031	12378-PeCDD	40321-76-4	0.278	JBQ	0.0317	5.72	1
11031	123478-HxCDD	39227-28-6	0.150	JB	0.0322	5.72	1
11031	123678-HxCDD	57653-85-7	0.449	JB	0.0325	5.72	1
11031	123789-HxCDD	19408-74-3	0.410	JB	0.0317	5.72	1
11031	1234678-HpCDD	35822-46-9	6.19	B	0.0374	5.72	1
11031	OCDD	3268-87-9	54.0	B	0.0396	11.4	1
11031	2378-TCDF	51207-31-9	0.198	JB	0.0525	1.14	1
11031	12378-PeCDF	57117-41-6	0.789	JB	0.0314	5.72	1
11031	23478-PeCDF	57117-31-4	0.716	JB	0.0285	5.72	1
11031	123478-HxCDF	70648-26-9	0.402	JB	0.0292	5.72	1
11031	123678-HxCDF	57117-44-9	0.304	JB	0.0275	5.72	1
11031	123789-HxCDF	72918-21-9	0.394	JBQ	0.0295	5.72	1
11031	234678-HxCDF	60851-34-5	0.342	JB	0.0281	5.72	1
11031	1234678-HpCDF	67562-39-4	1.34	JB	0.0180	5.72	1
11031	1234789-HpCDF	55673-89-7	0.139	JBQ	0.0217	5.72	1
11031	OCDF	39001-02-0	1.57	JB	0.0247	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	73	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP14-SA5DN-QC-061411 Soil**
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315656
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-15 SDG#: DX102-15FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP14-SA5DN-QC-061411 Soil
SSFL Area IV Collocated Soil Sampling
DUP14-SA5DN-QC-061411

LLI Sample # SW 6315656
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 10:45

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

02-15 SDG#: DX102-15FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 13:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11180162401B	06/29/2011 18:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB17-SA5DN-SB-061411 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315657
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 13:30

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10216 SDG#: DX102-16EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.136	U	0.136	2.05	1
10915	12378-PeCDD	40321-76-4	0.188	U	0.188	10.3	1
10915	123478-HxCDD	39227-28-6	0.293	JBQ	0.186	10.3	1
10915	123678-HxCDD	57653-85-7	0.775	JBQ	0.196	10.3	1
10915	123789-HxCDD	19408-74-3	0.464	JBQ	0.185	10.3	1
10915	1234678-HpCDD	35822-46-9	6.79	JB	0.361	10.3	1
10915	OCDD	3268-87-9	13.1	JB	0.361	20.5	1
10915	2378-TCDF	51207-31-9	0.212	JQ	0.136	2.05	1
10915	12378-PeCDF	57117-41-6	0.376	JB	0.104	10.3	1
10915	23478-PeCDF	57117-31-4	1.37	JBQ	0.0944	10.3	1
10915	123478-HxCDF	70648-26-9	2.43	JBQ	0.313	10.3	1
10915	123678-HxCDF	57117-44-9	1.74	JB	0.298	10.3	1
10915	123789-HxCDF	72918-21-9	1.18	JB	0.292	10.3	1
10915	234678-HxCDF	60851-34-5	3.47	JB	0.299	10.3	1
10915	1234678-HpCDF	67562-39-4	13.5	B	0.191	10.3	1
10915	1234789-HpCDF	55673-89-7	1.28	JBQ	0.228	10.3	1
10915	OCDF	39001-02-0	6.35	JB	0.489	20.5	1

The recovery of 1234678-HpCDF was above QC limits in the OPR associated with this sample. Sufficient sample was not available to re-extract the sample.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	65	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	79	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB17-SA5DN-SB-061411 Water**
SSFL Area IV Collocated Soil Sampling
EB17-SA5DN-SB-061411

LLI Sample # WW 6315657
LLI Group # 1251485
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/14/2011 13:30

Submitted: 06/15/2011 09:10
Reported: 07/08/2011 16:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10216 SDG#: DX102-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11179001	06/30/2011 20:04	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	11179001	06/29/2011 06:30	Ginelle L Haines	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251485
Reported: 07/08/11 at 04:00 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11180162401A	Sample number(s): 6315646								
Moisture Content by 160.3					100		80-120		
Batch number: 11180162401B	Sample number(s): 6315647-6315656								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11178002	Sample number(s): 6315646-6315656								
2378-TCDD	0.0358 J	0.0176	1.00	ng/kg	94		67-158		
12378-PeCDD	0.0516 J	0.0163	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0637 J	0.0207	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0721 J	0.0211	5.00	ng/kg	94		76-134		
123789-HxCDD	0.107 J	0.0205	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.456 J	0.0289	5.00	ng/kg	93		70-140		
OCDD	1.07 J	0.0177	10.0	ng/kg	92		78-144		
2378-TCDF	0.0243 J	0.0182	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0427 J	0.00800	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0735 J	0.00810	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0727 J	0.0124	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0592 J	0.0111	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0980 J	0.0150	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0541 J	0.0119	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.123 J	0.0102	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.132 J	0.0157	5.00	ng/kg	93		78-138		
OCDF	0.379 J	0.0227	10.0	ng/kg	91		63-170		
Batch number: 11179001	Sample number(s): 6315657								
2378-TCDD	0.204 J	0.187	2.00	pg/l	93		67-158		
12378-PeCDD	0.462 J	0.188	10.0	pg/l	107		70-142		
123478-HxCDD	0.478 J	0.270	10.0	pg/l	122		70-164		
123678-HxCDD	0.892 J	0.272	10.0	pg/l	116		76-134		
123789-HxCDD	1.22 J	0.265	10.0	pg/l	118		64-162		
1234678-HpCDD	7.89 J	0.643	10.0	pg/l	127		70-140		
OCDD	15.9 J	0.694	20.0	pg/l	132		78-144		
2378-TCDF	0.164 U	0.164	2.00	pg/l	96		75-158		
12378-PeCDF	0.412 J	0.131	10.0	pg/l	111		80-134		
23478-PeCDF	1.37 J	0.117	10.0	pg/l	105		68-160		
123478-HxCDF	1.69 J	0.312	10.0	pg/l	124		72-134		
123678-HxCDF	1.55 J	0.300	10.0	pg/l	122		84-130		
123789-HxCDF	1.02 J	0.364	10.0	pg/l	121		78-130		
234678-HxCDF	2.76 J	0.288	10.0	pg/l	117		70-156		
1234678-HpCDF	12.2	0.361	10.0	pg/l	131*		82-122		
1234789-HpCDF	1.72 J	0.446	10.0	pg/l	128		78-138		
OCDF	6.55 J	0.829	20.0	pg/l	137		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251485
Reported: 07/08/11 at 04:00 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11180162401A	Sample number(s): 6315646 BKG: P314468								
Moisture Content by 160.3						10.8	10	8	20
Batch number: 11180162401B	Sample number(s): 6315647-6315656 BKG: P315633								
Moisture Content by 160.3						14.0	15.3	9	20
Batch number: 11178002	Sample number(s): 6315646-6315656 UNSPK: 6315648								
2378-TCDD	95	93	67-158	3	25				
12378-PeCDD	95	100	70-142	4	25				
123478-HxCDD	96	98	70-164	0	25				
123678-HxCDD	94	95	76-134	0	25				
123789-HxCDD	94	94	64-162	1	25				
1234678-HpCDD	92	101	70-140	8	25				
OCDD	90	125	78-144	30*	25				
2378-TCDF	93	93	75-158	1	25				
12378-PeCDF	96	97	80-134	0	25				
23478-PeCDF	92	97	68-160	4	25				
123478-HxCDF	93	93	72-134	1	25				
123678-HxCDF	93	93	84-130	1	25				
123789-HxCDF	91	90	78-130	2	25				
234678-HxCDF	93	93	70-156	2	25				
1234678-HpCDF	91	92	82-122	0	25				
1234789-HpCDF	94	93	78-138	2	25				
OCDF	92	94	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11178002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6315646	62	68	70	76	71	69
6315647	60	70	73	84	75	72
6315648	72	76	68	76	77	73
6315649	64	76	67	74	75	72
6315650	73	77	88	97	94	94
6315651	70	73	65	83	79	74
6315652	73	79	60	69	83	77
6315653	71	74	69	79	72	78
6315654	74	74	72	79	75	78
6315655	65	69	67	77	69	62

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251485
Reported: 07/08/11 at 04:00 PM

Surrogate Quality Control

6315656	73	73	74	75	76	82
Blank	73	82	77	84	80	76
MS	64	76	67	74	75	72
MSD	73	77	88	97	94	94
OPR	60	63	58	63	63	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6315646	90	73	71	75	68	74
6315647	100	74	72	75	70	77
6315648	92	69	69	81	75	77
6315649	91	80	88	74	76	77
6315650	113	98	109	80	70	95
6315651	115	70	68	83	78	85
6315652	92	75	70	93	77	84
6315653	104	67	61	86	73	74
6315654	100	74	76	81	72	76
6315655	103	63	61	75	68	73
6315656	78	76	73	80	69	74
Blank	104	81	87	94	86	89
MS	91	80	88	74	76	77
MSD	113	98	109	80	70	95
OPR	75	63	63	74	63	67
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6315646	74	75	82	83	61	71
6315647	78	80	88	89	60	75
6315648	81	79	82	84	74	82
6315649	78	77	87	98	64	78
6315650	97	96	106	117	75	81
6315651	86	85	93	93	68	81
6315652	86	87	89	90	77	85
6315653	76	75	83	82	72	80
6315654	78	77	84	91	75	81
6315655	75	74	81	85	64	78
6315656	76	76	78	75	78	74
Blank	89	88	97	103	67	86
MS	78	77	87	98	64	78
MSD	97	96	106	117	75	81
OPR	68	69	72	73	59	65
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11179001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6315657	63	58	59	61	61	70
Blank	60	55	56	58	60	59
OPR	47	42	41	42	44	44

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251485
Reported: 07/08/11 at 04:00 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6315657	59	60	53	79	60	64
Blank	52	52	43	85	57	61
OPR	39	39	35	74	43	44
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6315657	63	65	63	57	58	56
Blank	60	61	55	45	57	53
OPR	44	45	42	37	43	39
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1251485 Sample#6315646-57

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8650 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-032-SA5DN-SB-4.5	06.14.11	1215	SOIL	NONE	5-Encores										X	X	X										
SL-032-SA5DN-SB-4.0-5.0	06.14.11	1220	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-032-SA5DN-SB-10.5	06.14.11	1210	SOIL	NONE	5-Encores										X	X	X										
SL-032-SA5DN-SB-10.0-11.0	06.14.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-033-SA5DN-SB-4.5MS	06.14.11	1030	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-033-SA5DN-SB-4.0-5.0MS	06.14.11	1035	SOIL	NONE	12-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-033-SA5DN-SB-11.5	06.14.11	1045	SOIL	NONE	5-Encores										X	X	X										
SL-033-SA5DN-SB-11.0-12.0	06.14.11	1150	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-035-SA5DN-SB-4.5	06.14.11	0850	SOIL	NONE	5-Encores										X	X	X										
SL-035-SA5DN-SB-4.0-5.0	06.14.11	0855	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-035-SA5DN-SB-10.0	06.14.11	0900	SOIL	NONE	5-Encores										X	X	X										
SL-035-SA5DN-SB-9.5-10.5	06.14.11	0905	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-044-SA5DN-SB-4.5	06.14.11	1450	SOIL	NONE	5-Encores										X	X	X										
SL-044-SA5DN-SB-4.0-5.0	06.14.11	1455	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-044-SA5DN-SB-12.5	06.14.11	1500	SOIL	NONE	5-Encores										X	X	X										
SL-044-SA5DN-SB-12.0-13.0	06.14.11	1505	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
DUP14-SA5DN-QC-061411	06.14.11	1040	SOIL	NONE	5-Encores										X	X	X										
DUP14-SA5DN-QC-061411	06.14.11	1045	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-061411	06.14.11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (Signature) — **Date/Time** 06/14/2011 / 1700

Received for Laboratory by: (Signature) — 6/15/11 910

Received by: (Signature) — **Date/Time**

Airbill No(s)
8754 3349 1846, 1857, 1868

Laboratory:
Lancaster Laboratories, Inc.

acct#13013 Gp# 1251485 Sample# 6315646-57

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	Other Instructions and Notes
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	NONE	5-1 L Ambers			X	X	X								
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	NONE	1-500mL plastic		X				X	X	X					
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	HNO3	1-500 poly	X												
EB17-SA5DN-SB-061411	06.14.11	1330	WATER	HCL	6-40mL Vials										X	X		

Relinquished by: (*Signature*) — Date/Time: 06/14/2011 / 1700

Received for Laboratory by: (*Signature*) 6/15/11 910

Received by: (*Signature*) — Date/Time

Airbill No(s): 8754 3349 1835,1846,1857,1868

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/16/2011
Group Number: 1251717
SDG: DE181
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-020-SA5DN-SB-3.5-4.5 Soil	6316976
SL-029-SA5DN-SB-4.0-5.0 Soil	6316977
SL-030-SA5DN-SB-4.0-5.0 Soil	6316978
SL-030-SA5DN-SB-4.0-5.0MS Soil	6316979
SL-030-SA5DN-SB-4.0-5.0MSD Soil	6316980
SL-030-SA5DN-SB-4.0-5.0DUP Soil	6316981
SL-031-SA5DN-SB-4.0-5.0 Soil	6316982
SL-034-SA5DN-SB-4.0-5.0 Soil	6316983
SL-055-SA5DN-SB-4.0-5.0 Soil	6316984
SL-055-SA5DN-SB-9.0-10.0 Soil	6316985
SL-056-SA5DN-SB-4.0-5.0 Soil	6316986
SL-056-SA5DN-SB-9.0-10.0 Soil	6316987
DUP15-SA5DN-QC-061511 Soil	6316988
TB-061511 Water	6316989
EB18-SA5DN-SB-061511 Water	6316990

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	11		6.5	7.7		0.86
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.86
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.86
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.86
06192	Bromomethane	74-83-9	0.24	U	0.24	3.9		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.7		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.86
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.9		0.86
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.9		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.86
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.86
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.9		0.86
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.9		0.86
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68	U	0.68	3.9		0.86
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.9		0.86
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.9		0.86
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.9		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.9		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.86
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.9		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.86
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.9		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.86
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.9		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.9		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.9		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.86
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8		0.86
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.9		0.86
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.7		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.9		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.7		0.86
06192	Methylene Chloride	75-09-2	1.1	J	0.23	3.9		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.86

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.9		0.86
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.9		0.86
06192	Toluene	108-88-3	0.13	J	0.08	3.9		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.9		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.9		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.9		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.86
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.86
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.9		0.86
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.9		0.86
06192	o-Xylene	95-47-6	0.16	U	0.16	3.9		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.15
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	34.4	J	18.8	37.5		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1

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Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.93	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	1.6	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	2.3		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1

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Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.87	J	0.74	1.9		1
10138	Pyrene	129-00-0	2.4		0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		19.84
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	220	U	220	670	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1

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Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.4		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,300		6.74	22.3		1
07914	Boron	7440-42-8	6.47		0.401	5.57		1
01650	Calcium	7440-70-2	9,140		2.78	22.3		1
01654	Iron	7439-89-6	22,200		2.91	22.3		1
01656	Lithium	7439-93-2	19.4		0.69	2.2		1
01657	Magnesium	7439-95-4	4,260		0.490	11.1		1

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Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	276		0.0401	0.557		1
10145	Phosphorus	7723-14-0	272		0.390	11.1		1
01662	Potassium	7440-09-7	2,350		12.6	55.7		1
01667	Sodium	7440-23-5	262		6.63	111		1
07968	Strontium	7440-24-6	21.4		0.0278	0.557		1
06969	Tin	7440-31-5	2.36	J	0.356	11.1		1
06970	Titanium	7440-32-6	923		0.0791	1.11		1
10146	Zirconium	7440-67-7	3.03	J	0.512	5.57		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0824	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.41		0.0891	0.445		2
06126	Barium	7440-39-3	101		0.118	0.445		2
06127	Beryllium	7440-41-7	0.827		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.114		0.0490	0.111		2
06131	Chromium	7440-47-3	25.7		0.134	0.445		2
06132	Cobalt	7440-48-4	15.1		0.0223	0.111		2
06133	Copper	7440-50-8	13.8		0.0874	0.437		2
06135	Lead	7439-92-1	11.1		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.358		0.0557	0.111		2
06139	Nickel	7440-02-0	21.2		0.111	0.445		2
06141	Selenium	7782-49-2	0.0646	U	0.0646	0.445		2
06142	Silver	7440-22-4	0.0575	J	0.0158	0.111		2
06145	Thallium	7440-28-0	0.330		0.0334	0.111		2
06148	Vanadium	7440-62-2	45.7		0.0245	0.111		2
06149	Zinc	7440-66-6	63.1		0.624	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1

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Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.56	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-020-SA5DN-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 15:47	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 11:15	Jason M Long	21.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 12:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:26	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 12:48	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 20:53	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 14:53	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 15:25	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 17:43	Elizabeth J Marin	19.84
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 12:48	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/24/2011 21:18	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 20:47	Michele D Hamilton	1

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Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

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181-1 SDG#: DE181-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 18:04	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 12:03	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 03:39	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 15:34	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 15:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:15	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:25	Damary Valentin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316976
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-1 SDG#: DE181-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/24/2011 23:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/24/2011 23:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 16:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 09:22	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 18:55	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-2 SDG#: DE181-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7		6.9	8.3		0.91
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.91
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.91
06192	Bromomethane	74-83-9	0.26	U	0.26	4.1		0.91
06192	2-Butanone	78-93-3	1.3	U	1.3	8.3		0.91
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.91
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.91
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.91
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72	U	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.1		0.91
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.1		0.91
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.91
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.91
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2		0.91
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3		0.91
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.3		0.91
06192	Methylene Chloride	75-09-2	1.0	J	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.91

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Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-2 SDG#: DE181-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.1		0.91
06192	Toluene	108-88-3	0.1	J	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.1		0.91
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.1		0.91
06192	o-Xylene	95-47-6	0.18	U	0.18	4.1		0.91
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.8	U	4.8	14		21.11
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	33.3	J	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-2 SDG#: DE181-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

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Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-2 SDG#: DE181-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		23.36
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1

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Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

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181-2 SDG#: DE181-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400		6.59	21.8		1
07914	Boron	7440-42-8	6.81		0.392	5.44		1
01650	Calcium	7440-70-2	15,300		2.72	21.8		1
01654	Iron	7439-89-6	23,700		2.84	21.8		1
01656	Lithium	7439-93-2	19.8		0.68	2.2		1
01657	Magnesium	7439-95-4	4,430		0.479	10.9		1

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Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-2 SDG#: DE181-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	232		0.0392	0.544		1
10145	Phosphorus	7723-14-0	185		0.381	10.9		1
01662	Potassium	7440-09-7	1,960		12.3	54.4		1
01667	Sodium	7440-23-5	351		6.48	109		1
07968	Strontium	7440-24-6	26.2		0.0272	0.544		1
06969	Tin	7440-31-5	2.28	J	0.348	10.9		1
06970	Titanium	7440-32-6	936		0.0773	1.09		1
10146	Zirconium	7440-67-7	3.41	J	0.501	5.44		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0838	U	0.0838	0.227		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.42		0.0906	0.453		2
06126	Barium	7440-39-3	79.2		0.120	0.453		2
06127	Beryllium	7440-41-7	0.627		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.176		0.0498	0.113		2
06131	Chromium	7440-47-3	22.6		0.136	0.453		2
06132	Cobalt	7440-48-4	4.48		0.0227	0.113		2
06133	Copper	7440-50-8	12.1		0.0906	0.453		2
06135	Lead	7439-92-1	5.44		0.0116	0.227		2
06138	Molybdenum	7439-98-7	0.164		0.0566	0.113		2
06139	Nickel	7440-02-0	13.6		0.113	0.453		2
06141	Selenium	7782-49-2	0.0657	U	0.0657	0.453		2
06142	Silver	7440-22-4	0.0293	J	0.0161	0.113		2
06145	Thallium	7440-28-0	0.271		0.0340	0.113		2
06148	Vanadium	7440-62-2	37.3		0.0249	0.113		2
06149	Zinc	7440-66-6	43.1		0.634	3.40		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-2 SDG#: DE181-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.78	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-029-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 16:09	Chelsea B Eastep	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 11:35	Jason M Long	21.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 12:52	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:26	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 12:52	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 21:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 15:18	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 15:56	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 18:57	Elizabeth J Marin	23.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 12:51	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/24/2011 22:00	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 20:56	Michele D Hamilton	1

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Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
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SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
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181-2 SDG#: DE181-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 18:23	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 08:42	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 03:54	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 15:47	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 16:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:22	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:26	Damary Valentin	1

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Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316977
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-2 SDG#: DE181-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/24/2011 23:38	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/24/2011 23:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 16:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 09:35	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 18:56	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.1		6.6	7.9		0.86
06192	Benzene	71-43-2	0.1	U	0.1	4.0		0.86
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33	U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40	U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25	U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13	U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12	U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33	U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50	U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70	U	0.70	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39	U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11	U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50	U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39	U	0.39	7.9		0.86
06192	Methylene Chloride	75-09-2	1.1	J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.0		0.86

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Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.10	J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33	U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40	U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17	U	0.17	4.0		0.86
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.93
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	36.3	J	18.9	37.8		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

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181-3 SDG#: DE181-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.48
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	79	U	79	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
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Collected: 06/15/2011 09:55

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181-3 SDG#: DE181-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	690	U	690	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,100		6.69	22.1		1
07914	Boron	7440-42-8	8.77		0.398	5.53		1
01650	Calcium	7440-70-2	22,100		2.76	22.1		1
01654	Iron	7439-89-6	29,300		2.88	22.1		1
01656	Lithium	7439-93-2	25.7		0.69	2.2		1
01657	Magnesium	7439-95-4	5,950		0.486	11.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	179		0.0398	0.553		1
10145	Phosphorus	7723-14-0	174		0.387	11.1		1
01662	Potassium	7440-09-7	2,440		12.5	55.3		1
01667	Sodium	7440-23-5	338		6.58	111		1
07968	Strontium	7440-24-6	36.3		0.0276	0.553		1
06969	Tin	7440-31-5	2.87	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,170		0.0785	1.11		1
10146	Zirconium	7440-67-7	3.79	J	0.508	5.53		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0842	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.20		0.0910	0.455		2
06126	Barium	7440-39-3	118		0.121	0.455		2
06127	Beryllium	7440-41-7	0.982		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.138		0.0501	0.114		2
06131	Chromium	7440-47-3	30.0		0.137	0.455		2
06132	Cobalt	7440-48-4	5.52		0.0228	0.114		2
06133	Copper	7440-50-8	17.0		0.0902	0.451		2
06135	Lead	7439-92-1	8.11		0.0116	0.228		2
06138	Molybdenum	7439-98-7	0.269		0.0569	0.114		2
06139	Nickel	7440-02-0	20.6		0.114	0.455		2
06141	Selenium	7782-49-2	0.0660	U	0.0660	0.455		2
06142	Silver	7440-22-4	0.0864	J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.375		0.0341	0.114		2
06148	Vanadium	7440-62-2	51.0		0.0250	0.114		2
06149	Zinc	7440-66-6	57.8		0.637	3.41		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0215	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.1		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.59	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-030-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 16:32	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 11:56	Jason M Long	21.93
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 12:55	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 12:55	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 19:58	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 13:38	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 13:49	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 21:22	Elizabeth J Marin	21.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 12:55	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/24/2011 22:43	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 21:15	Michele D Hamilton	1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 18:41	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 09:07	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 04:09	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 16:00	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 17:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 10:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:01	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:27	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316978
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/24/2011 22:41	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/24/2011 22:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 14:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 09:49	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 18:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	160	6.7	8.0		0.87
06192	Benzene	71-43-2	21	0.10	4.0		0.87
06192	Bromobenzene	108-86-1	21	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	22	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	21	0.08	4.0		0.87
06192	Bromoform	75-25-2	20	0.40	4.0		0.87
06192	Bromomethane	74-83-9	16	0.25	4.0		0.87
06192	2-Butanone	78-93-3	140	1.2	8.0		0.87
06192	n-Butylbenzene	104-51-8	21	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	21	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	21	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	23	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	22	0.11	4.0		0.87
06192	Chloroethane	75-00-3	14	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.30	4.0		0.87
06192	Chloroform	67-66-3	22	0.12	4.0		0.87
06192	Chloromethane	74-87-3	19	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	21	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	22	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	11	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	20	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	21	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	21	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	20	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	21	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	21	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	19	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	22	0.10	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	23	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	23	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	21	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	22	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	20	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	21	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	22	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	22	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	22	0.06	4.0		0.87
06192	Freon 113	76-13-1	23	0.11	4.0		0.87
06192	Freon 133a	75-88-7	20	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	19	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	96	1.6	8.0		0.87
06192	Isopropylbenzene	98-82-8	22	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	21	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	20	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	95	0.39	8.0		0.87
06192	Methylene Chloride	75-09-2	23	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	22	0.07	4.0		0.87

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	22	0.10	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	23	0.20	4.0		0.87
06192	Toluene	108-88-3	22	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	20	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	19	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	22	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	21	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	21	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	21	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	20	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	22	0.10	4.0		0.87
06192	Vinyl Chloride	75-01-4	19	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	45	0.17	4.0		0.87
06192	o-Xylene	95-47-6	21	0.17	4.0		0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	97	4.7	14		20.42
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	879	19.2	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,600	19	190		1
04688	Acenaphthylene	208-96-8	1,600	19	190		1
04688	Aniline	62-53-3	1,300	190	570		1
04688	Anthracene	120-12-7	1,600	19	190		1
04688	Benzidine	92-87-5	5,100	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,600	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,500	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	19	190		1
04688	Benzoic acid	65-85-0	1,000	190	570		1
04688	Benzyl alcohol	100-51-6	1,700	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	19	190		1
04688	Butylbenzylphthalate	85-68-7	1,600	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,600	19	190		1
04688	Carbazole	86-74-8	1,600	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700	38	190		1
04688	4-Chloroaniline	106-47-8	1,100	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,100	19	190		1
04688	2-Chlorophenol	95-57-8	1,700	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	38	190		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,700	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	19	190		1
04688	Dibenzofuran	132-64-9	1,600	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	860	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,600	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,600	38	190		1
04688	Dimethylphthalate	131-11-3	1,600	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300	190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,900	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,600	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500	19	380		1
04688	Fluoranthene	206-44-0	1,700	19	190		1
04688	Fluorene	86-73-7	1,600	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,000	190	570		1
04688	Hexachloroethane	67-72-1	1,400	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,600	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,800	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,500	19	190		1
04688	2-Nitroaniline	88-74-4	1,700	19	190		1
04688	3-Nitroaniline	99-09-2	1,600	38	190		1
04688	4-Nitroaniline	100-01-6	1,300	77	190		1
04688	Nitrobenzene	98-95-3	1,600	19	190		1
04688	2-Nitrophenol	88-75-5	1,600	19	190		1
04688	4-Nitrophenol	100-02-7	1,600	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,400	190	570		1
04688	Phenanthrene	85-01-8	1,600	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,700		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	33		0.76	1.9		1
10138	Acenaphthylene	208-96-8	30		0.38	1.9		1
10138	Anthracene	120-12-7	33		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	39		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	40		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	42		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	40		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	43		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	44		6.8	20		1
10138	Chrysene	218-01-9	38		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	43		0.76	1.9		1
10138	Diethylphthalate	84-66-2	36		6.8	20		1
10138	Dimethylphthalate	131-11-3	34		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	46		6.8	20		1
10138	Fluoranthene	206-44-0	37		0.76	1.9		1
10138	Fluorene	86-73-7	31		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	44		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	36		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	32		0.76	1.9		1
10138	Naphthalene	91-20-3	34		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	42		6.8	20		1
10138	Phenanthrene	85-01-8	34		0.76	1.9		1
10138	Pyrene	129-00-0	33		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.4		0.2	1		21.26
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,600		69	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,600		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,700		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,500		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,500		46	140		1
10132	HMX	2691-41-0	2,300		110	340		1
10132	Nitrobenzene	98-95-3	2,600		46	140		1
10132	Nitroglycerin	55-63-0	53,000		920	2,800		1
10132	2-Nitrotoluene	88-72-2	2,500		92	140		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	2,700		110	140		1
10132	4-Nitrotoluene	99-99-0	2,500		92	140		1
10132	PETN	78-11-5	59,000		920	2,800		1
10132	RDX	121-82-4	2,100		57	140		1
10132	Tetryl	479-45-8	1,700		70	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,600		46	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,300		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	19		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	23		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.93	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.8		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.1		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.9		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.91	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		110	570		1
10501	Isopropanol	67-63-0	2,400		110	570		1
10501	Methanol	67-56-1	2,300		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	87		5.7	11		1
08283	Ethylene glycol	107-21-1	190		5.7	11		1
08283	Propylene glycol	57-55-6	190		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	J	1.4	4.0		1
10318	o-Terphenyl	84-15-1	1.8	J	1.7	4.0		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	p-Terphenyl	92-94-4	1.8	J	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	32,100		6.89	22.8		1
07914	Boron	7440-42-8	227		0.410	5.69		1
01650	Calcium	7440-70-2	28,900		2.85	22.8		1
01654	Iron	7439-89-6	29,700		2.97	22.8		1
01656	Lithium	7439-93-2	141		0.71	2.3		1
01657	Magnesium	7439-95-4	6,210		0.501	11.4		1
06958	Manganese	7439-96-5	233		0.0410	0.569		1
10145	Phosphorus	7723-14-0	315		0.398	11.4		1
01662	Potassium	7440-09-7	4,020		12.9	56.9		1
01667	Sodium	7440-23-5	1,380		6.77	114		1
07968	Strontium	7440-24-6	148		0.0285	0.569		1
06969	Tin	7440-31-5	385		0.364	11.4		1
06970	Titanium	7440-32-6	1,360		0.0808	1.14		1
10146	Zirconium	7440-67-7	113		0.524	5.69		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.673		0.0834	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.2		0.0902	0.451		2
06126	Barium	7440-39-3	181		0.119	0.451		2
06127	Beryllium	7440-41-7	2.42		0.0180	0.113		2
06128	Cadmium	7440-43-9	1.80		0.0496	0.113		2
06131	Chromium	7440-47-3	51.2		0.135	0.451		2
06132	Cobalt	7440-48-4	101		0.0225	0.113		2
06133	Copper	7440-50-8	24.5		0.0902	0.451		2
06135	Lead	7439-92-1	17.9		0.0115	0.225		2
06138	Molybdenum	7439-98-7	16.1		0.0563	0.113		2
06139	Nickel	7440-02-0	51.2		0.113	0.451		2
06141	Selenium	7782-49-2	1.95		0.0654	0.451		2
06142	Silver	7440-22-4	16.8		0.0160	0.113		2
06145	Thallium	7440-28-0	1.12		0.0338	0.113		2
06148	Vanadium	7440-62-2	86.0		0.0248	0.113		2
06149	Zinc	7440-66-6	98.5		0.631	3.38		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.183		0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	12.0		0.92	1.7		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	549		10.3	34.5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	44.6	1.1	5.7		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	5.7	0.21	0.57		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-030-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 16:54	Chelsea B Eastep	0.87
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 17:39	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 12:16	Jason M Long	20.42
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:03	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 13:02	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 20:17	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 14:03	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 14:21	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 21:58	Elizabeth J Marin	21.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:02	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/24/2011 23:25	James H Place	1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 21:25	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 19:00	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 09:32	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 04:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 14:43	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 18:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:08	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316979
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/24/2011 23:10	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/24/2011 23:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 15:37	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 10:02	Elyse P Brunstetter	5
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 19:02	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	180	6.9	8.2		0.89
06192	Benzene	71-43-2	22	0.10	4.1		0.89
06192	Bromobenzene	108-86-1	21	0.13	4.1		0.89
06192	Bromochloromethane	74-97-5	22	0.34	4.1		0.89
06192	Bromodichloromethane	75-27-4	21	0.08	4.1		0.89
06192	Bromoform	75-25-2	21	0.41	4.1		0.89
06192	Bromomethane	74-83-9	16	0.26	4.1		0.89
06192	2-Butanone	78-93-3	150	1.2	8.2		0.89
06192	n-Butylbenzene	104-51-8	21	0.12	4.1		0.89
06192	sec-Butylbenzene	135-98-8	21	0.06	4.1		0.89
06192	tert-Butylbenzene	98-06-6	21	0.16	4.1		0.89
06192	Carbon Tetrachloride	56-23-5	23	0.14	4.1		0.89
06192	Chlorobenzene	108-90-7	22	0.11	4.1		0.89
06192	Chloroethane	75-00-3	15	0.13	4.1		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.31	4.1		0.89
06192	Chloroform	67-66-3	22	0.12	4.1		0.89
06192	Chloromethane	74-87-3	20	0.34	4.1		0.89
06192	2-Chlorotoluene	95-49-8	20	0.14	4.1		0.89
06192	4-Chlorotoluene	106-43-4	21	0.14	4.1		0.89
06192	Chlorotrifluoroethene	79-38-9	10	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	21	0.72	4.1		0.89
06192	Dibromochloromethane	124-48-1	21	0.20	4.1		0.89
06192	1,2-Dibromoethane	106-93-4	21	0.17	4.1		0.89
06192	Dibromomethane	74-95-3	20	0.25	4.1		0.89
06192	1,2-Dichlorobenzene	95-50-1	21	0.09	4.1		0.89
06192	1,3-Dichlorobenzene	541-73-1	20	0.12	4.1		0.89
06192	1,4-Dichlorobenzene	106-46-7	20	0.16	4.1		0.89
06192	Dichlorodifluoromethane	75-71-8	19	0.12	4.1		0.89
06192	1,1-Dichloroethane	75-34-3	22	0.10	4.1		0.89
06192	1,2-Dichloroethane	107-06-2	23	0.15	4.1		0.89
06192	1,1-Dichloroethene	75-35-4	23	0.40	4.1		0.89
06192	cis-1,2-Dichloroethene	156-59-2	21	0.19	4.1		0.89
06192	trans-1,2-Dichloroethene	156-60-5	21	0.12	4.1		0.89
06192	1,2-Dichloropropane	78-87-5	21	0.17	4.1		0.89
06192	1,3-Dichloropropane	142-28-9	21	0.08	4.1		0.89
06192	2,2-Dichloropropane	594-20-7	23	0.17	4.1		0.89
06192	1,1-Dichloropropene	563-58-6	23	0.13	4.1		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.16	4.1		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	20	0.17	4.1		0.89
06192	Ethylbenzene	100-41-4	21	0.06	4.1		0.89
06192	Freon 113	76-13-1	23	0.11	4.1		0.89
06192	Freon 133a	75-88-7	20	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	18	0.14	4.1		0.89
06192	2-Hexanone	591-78-6	110	1.6	8.2		0.89
06192	Isopropylbenzene	98-82-8	22	0.06	4.1		0.89
06192	p-Isopropyltoluene	99-87-6	21	0.11	4.1		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	21	0.21	4.1		0.89
06192	4-Methyl-2-pentanone	108-10-1	100	0.40	8.2		0.89
06192	Methylene Chloride	75-09-2	23	0.25	4.1		0.89
06192	n-Propylbenzene	103-65-1	21	0.07	4.1		0.89

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	22	0.10	4.1		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	22	0.11	4.1		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	20	0.24	4.1		0.89
06192	Tetrachloroethene	127-18-4	24	0.20	4.1		0.89
06192	Toluene	108-88-3	22	0.08	4.1		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	20	0.14	4.1		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	18	0.18	4.1		0.89
06192	1,1,1-Trichloroethane	71-55-6	22	0.20	4.1		0.89
06192	1,1,2-Trichloroethane	79-00-5	21	0.28	4.1		0.89
06192	Trichloroethene	79-01-6	21	0.15	4.1		0.89
06192	Trichlorofluoromethane	75-69-4	21	0.30	4.1		0.89
06192	1,2,3-Trichloropropane	96-18-4	20	0.34	4.1		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	21	0.41	4.1		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.10	4.1		0.89
06192	Vinyl Chloride	75-01-4	19	0.20	4.1		0.89
06192	m+p-Xylene	179601-23-1	44	0.17	4.1		0.89
06192	o-Xylene	95-47-6	21	0.17	4.1		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	110	5.2	16		22.48
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	965	19.2	38.3		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700	19	190		1
04688	Acenaphthylene	208-96-8	1,800	19	190		1
04688	Aniline	62-53-3	1,400	190	570		1
04688	Anthracene	120-12-7	1,700	19	190		1
04688	Benzidine	92-87-5	5,500	1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,700	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,700	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,800	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	19	190		1
04688	Benzoic acid	65-85-0	640	190	570		1
04688	Benzyl alcohol	100-51-6	1,700	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	19	190		1
04688	Butylbenzylphthalate	85-68-7	1,600	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,600	19	190		1
04688	Carbazole	86-74-8	1,700	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	38	190		1
04688	4-Chloroaniline	106-47-8	1,300	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,800	19	190		1
04688	2-Chlorophenol	95-57-8	1,700	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	38	190		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,700	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700	19	190		1
04688	Dibenzofuran	132-64-9	1,700	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,800	19	190		1
04688	Diethylphthalate	84-66-2	1,700	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,700	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,700	38	190		1
04688	Dimethylphthalate	131-11-3	1,700	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000	190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,200	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,700	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600	19	380		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,700	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	3,200	190	570		1
04688	Hexachloroethane	67-72-1	1,400	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	19	190		1
04688	Isophorone	78-59-1	1,700	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,700	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,900	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,800	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	77	190		1
04688	Nitrobenzene	98-95-3	1,600	19	190		1
04688	2-Nitrophenol	88-75-5	1,600	19	190		1
04688	4-Nitrophenol	100-02-7	1,700	190	570		1
04688	N-Nitrosodimethylamine	62-75-9	1,500	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,400	190	570		1
04688	Phenanthrene	85-01-8	1,700	19	190		1
04688	Phenol	108-95-2	1,700	19	190		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pyrene	129-00-0	1,800		19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	30		0.76	1.9		1
10138	Acenaphthylene	208-96-8	28		0.38	1.9		1
10138	Anthracene	120-12-7	33		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	37		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	39		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	40		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	43		6.9	21		1
10138	Di-n-butylphthalate	84-74-2	42		6.9	21		1
10138	Chrysene	218-01-9	37		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	41		0.76	1.9		1
10138	Diethylphthalate	84-66-2	34		6.9	21		1
10138	Dimethylphthalate	131-11-3	32		6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43		6.9	21		1
10138	Fluoranthene	206-44-0	36		0.76	1.9		1
10138	Fluorene	86-73-7	29		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	41		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	34		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	30		0.76	1.9		1
10138	Naphthalene	91-20-3	31		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	34		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	40		6.9	21		1
10138	Phenanthrene	85-01-8	32		0.76	1.9		1
10138	Pyrene	129-00-0	33		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.1		0.2	1.0		22.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		69	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,300		46	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		46	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		46	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,300		46	140		1
10132	HMX	2691-41-0	2,000		110	340		1
10132	Nitrobenzene	98-95-3	2,500		46	140		1
10132	Nitroglycerin	55-63-0	50,000		920	2,800		1
10132	2-Nitrotoluene	88-72-2	2,400		92	140		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	3-Nitrotoluene	99-08-1	2,500		110	140		1
10132	4-Nitrotoluene	99-99-0	2,400		92	140		1
10132	PETN	78-11-5	54,000		920	2,800		1
10132	RDX	121-82-4	1,900		57	140		1
10132	Tetryl	479-45-8	1,600		70	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		46	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		46	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	5,600		690	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	16		0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	20		0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.90	J	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.5		0.46	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	3.4		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.85	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,400		110	570		1
10501	Isopropanol	67-63-0	2,500		110	570		1
10501	Methanol	67-56-1	2,300		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	80		5.7	11		1
08283	Ethylene glycol	107-21-1	190		5.7	11		1
08283	Propylene glycol	57-55-6	190		5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.4	J	1.4	4.0		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	4.0		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	p-Terphenyl	92-94-4	1.7	J	1.6	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,700		6.62	21.9		1
07914	Boron	7440-42-8	221		0.394	5.47		1
01650	Calcium	7440-70-2	13,400		2.74	21.9		1
01654	Iron	7439-89-6	30,500		14.3	109		5
01656	Lithium	7439-93-2	138		0.68	2.2		1
01657	Magnesium	7439-95-4	6,050		0.482	10.9		1
06958	Manganese	7439-96-5	369		0.0394	0.547		1
10145	Phosphorus	7723-14-0	317		0.383	10.9		1
01662	Potassium	7440-09-7	4,280		12.4	54.7		1
01667	Sodium	7440-23-5	1,360		6.51	109		1
07968	Strontium	7440-24-6	139		0.0274	0.547		1
06969	Tin	7440-31-5	383		0.350	10.9		1
06970	Titanium	7440-32-6	1,390		0.0777	1.09		1
10146	Zirconium	7440-67-7	111		0.504	5.47		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.792		0.0818	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.7		0.0884	0.442		2
06126	Barium	7440-39-3	141		0.117	0.442		2
06127	Beryllium	7440-41-7	2.23		0.0177	0.111		2
06128	Cadmium	7440-43-9	1.75		0.0486	0.111		2
06131	Chromium	7440-47-3	44.2		0.133	0.442		2
06132	Cobalt	7440-48-4	87.5		0.0221	0.111		2
06133	Copper	7440-50-8	25.6		0.0893	0.446		2
06135	Lead	7439-92-1	15.1		0.0113	0.221		2
06138	Molybdenum	7439-98-7	15.6		0.0553	0.111		2
06139	Nickel	7440-02-0	40.8		0.111	0.442		2
06141	Selenium	7782-49-2	2.04		0.0641	0.442		2
06142	Silver	7440-22-4	15.6		0.0157	0.111		2
06145	Thallium	7440-28-0	0.998		0.0332	0.111		2
06148	Vanadium	7440-62-2	75.3		0.0243	0.111		2
06149	Zinc	7440-66-6	85.1		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173		0.0079	0.112		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	13.0		0.50	0.50		1

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Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-030-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 17:16	Chelsea B Eastep	0.89
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 18:01	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 12:36	Jason M Long	22.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:06	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 13:05	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 20:35	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 14:28	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 14:53	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 22:35	Elizabeth J Marin	22.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:05	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/25/2011 00:08	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 21:34	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 19:19	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 09:57	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 04:38	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 14:56	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 18:46	Heather E Williams	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316980
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 15:59	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 10:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:11	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316981
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		6.75	22.3		1
07914	Boron	7440-42-8	7.72		0.402	5.58		1
01650	Calcium	7440-70-2	30,300		2.79	22.3		1
01654	Iron	7439-89-6	28,400		2.91	22.3		1
01656	Lithium	7439-93-2	24.0		0.69	2.2		1
01657	Magnesium	7439-95-4	5,670		0.491	11.2		1
06958	Manganese	7439-96-5	160		0.0402	0.558		1
10145	Phosphorus	7723-14-0	169		0.391	11.2		1
01662	Potassium	7440-09-7	2,320		12.6	55.8		1
01667	Sodium	7440-23-5	328		6.64	112		1
07968	Strontium	7440-24-6	38.5		0.0279	0.558		1
06969	Tin	7440-31-5	2.70	J	0.357	11.2		1
06970	Titanium	7440-32-6	1,100		0.0792	1.12		1
10146	Zirconium	7440-67-7	4.03	J	0.513	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0972	J	0.0834	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.45		0.0902	0.451		2
06126	Barium	7440-39-3	102		0.119	0.451		2
06127	Beryllium	7440-41-7	0.800		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.138		0.0496	0.113		2
06131	Chromium	7440-47-3	25.8		0.135	0.451		2
06132	Cobalt	7440-48-4	10.0		0.0225	0.113		2
06133	Copper	7440-50-8	13.5		0.0910	0.455		2
06135	Lead	7439-92-1	7.77		0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.229		0.0563	0.113		2
06139	Nickel	7440-02-0	19.9		0.113	0.451		2
06141	Selenium	7782-49-2	0.0654	U	0.0654	0.451		2
06142	Silver	7440-22-4	0.0492	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.295		0.0338	0.113		2
06148	Vanadium	7440-62-2	44.6		0.0248	0.113		2
06149	Zinc	7440-66-6	50.7		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084	J	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.2		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-030-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316981
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	12.2		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	13.0		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011	04:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011	10:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011	10:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011	10:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011	10:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011	10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011	10:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011	10:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011	09:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011	10:32	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316981
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-3 SDG#: DE181-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:06	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/24/2011 22:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/24/2011 22:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 15:14	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11186243201A	07/06/2011 12:23	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 18:58	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-4 SDG#: DE181-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	10		7.2	8.6		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.3		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.3		0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.3		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.3		0.94
06192	Bromoform	75-25-2	0.43	U	0.43	4.3		0.94
06192	Bromomethane	74-83-9	0.27	U	0.27	4.3		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.6		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.3		0.94
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.3		0.94
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.3		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.3		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.3		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.3		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.3		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.3		0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.3		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.3		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.3		0.94
06192	Chlorotrifluoroethene	79-38-9	0.54	U	0.54	5.4		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75	U	0.75	4.3		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.3		0.94
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.3		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.3		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.3		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.3		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.3		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.3		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.3		0.94
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.3		0.94
06192	1,1-Dichloroethene	75-35-4	0.42	U	0.42	4.3		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.3		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.3		0.94
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.3		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.3		0.94
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.3		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.3		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.3		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.3		0.94
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.3		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.3		0.94
06192	Freon 133a	75-88-7	0.54	U	0.54	5.4		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.3		0.94
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.6		0.94
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.3		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.3		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.3		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.42	U	0.42	8.6		0.94
06192	Methylene Chloride	75-09-2	1.6	J	0.26	4.3		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.3		0.94

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Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-4 SDG#: DE181-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.3		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.3		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.3		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.3		0.94
06192	Toluene	108-88-3	0.10	J	0.09	4.3		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.3		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.3		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.3		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.3		0.94
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.3		0.94
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.3		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.3		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.3		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.3		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.3		0.94
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.3		0.94
06192	o-Xylene	95-47-6	0.18	U	0.18	4.3		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15		21.66
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	36.0	J	19.1	38.2		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-4 SDG#: DE181-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-4 SDG#: DE181-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.12
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
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181-4 SDG#: DE181-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	25a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	3.6	J	2.4	5.7		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400		6.94	22.9		1
07914	Boron	7440-42-8	8.01		0.413	5.73		1

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Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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181-4 SDG#: DE181-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	73,600		14.3	115		5
01654	Iron	7439-89-6	23,300		2.99	22.9		1
01656	Lithium	7439-93-2	21.4		0.71	2.3		1
01657	Magnesium	7439-95-4	5,100		0.505	11.5		1
06958	Manganese	7439-96-5	201		0.0413	0.573		1
10145	Phosphorus	7723-14-0	314		0.401	11.5		1
01662	Potassium	7440-09-7	2,680		13.0	57.3		1
01667	Sodium	7440-23-5	427		6.82	115		1
07968	Strontium	7440-24-6	66.6		0.0287	0.573		1
06969	Tin	7440-31-5	2.11	J	0.367	11.5		1
06970	Titanium	7440-32-6	1,100		0.0814	1.15		1
10146	Zirconium	7440-67-7	4.15	J	0.528	5.73		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.155	J	0.0824	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.64		0.0891	0.445		2
06126	Barium	7440-39-3	177		0.118	0.445		2
06127	Beryllium	7440-41-7	1.03		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.489		0.0490	0.111		2
06131	Chromium	7440-47-3	35.1		0.134	0.445		2
06132	Cobalt	7440-48-4	13.1		0.0223	0.111		2
06133	Copper	7440-50-8	14.4		0.0899	0.450		2
06135	Lead	7439-92-1	11.8		0.0114	0.223		2
06138	Molybdenum	7439-98-7	0.389		0.0557	0.111		2
06139	Nickel	7440-02-0	28.9		0.111	0.445		2
06141	Selenium	7782-49-2	0.0646	U	0.0646	0.445		2
06142	Silver	7440-22-4	0.0672	J	0.0158	0.111		2
06145	Thallium	7440-28-0	0.431		0.0334	0.111		2
06148	Vanadium	7440-62-2	70.6		0.0245	0.111		2
06149	Zinc	7440-66-6	77.2		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.8		0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.23	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-4 SDG#: DE181-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.67		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-031-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 18:23	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 13:16	Jason M Long	21.66
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:10	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 13:10	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 21:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 15:43	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 20:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 19:33	Elizabeth J Marin	22.12

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-4 SDG#: DE181-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:09	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/25/2011 00:50	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 21:44	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111730021A	06/23/2011 19:31	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 19:37	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111730021A	06/23/2011 09:30	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 12:29	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 04:53	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 16:12	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 19:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 16:03	Eric L Eby	5
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:43	Choon Y Tian	2

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Analysis Report

Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316982
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-4 SDG#: DE181-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:25	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/24/2011 23:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/24/2011 23:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 17:09	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 12:30	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 19:03	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Analysis Report

Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-5 SDG#: DE181-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7		6.6	7.9		0.85
06192	Benzene	71-43-2	0.1	U	0.1	3.9		0.85
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9		0.85
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9		0.85
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9		0.85
06192	Bromoform	75-25-2	0.39	U	0.39	3.9		0.85
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9		0.85
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9		0.85
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9		0.85
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9		0.85
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9		0.85
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9		0.85
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.9		0.85
06192	Chloroform	67-66-3	0.12	U	0.12	3.9		0.85
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9		0.85
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9		0.85
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9		0.85
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9		0.85
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9		0.85
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9		0.85
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9		0.85
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9		0.85
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9		0.85
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9		0.85
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9		0.85
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9		0.85
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9		0.85
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9		0.85
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9		0.85
06192	Freon 113	76-13-1	0.11	U	0.11	3.9		0.85
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9		0.85
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9		0.85
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9		0.85
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9		0.85
06192	Methylene Chloride	75-09-2	1.7	J	0.24	3.9		0.85
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9		0.85

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-5 SDG#: DE181-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9		0.85
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9		0.85
06192	Toluene	108-88-3	0.09	J	0.08	3.9		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.9		0.85
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9		0.85
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.9		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9		0.85
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9		0.85
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9		0.85
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9		0.85
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16		23.19
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	30.4	J	19.2	38.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	77	U	77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200		1

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Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-5 SDG#: DE181-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	77	U	77	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.8		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	1.1	J	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1

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Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-5 SDG#: DE181-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.97	J	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	120	U	120	350	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	U	120	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	58	U	58	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
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Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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181-5 SDG#: DE181-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4		1
10199	EFH (C15-C20)	n.a.	1.2	J	0.46	1.4		1
10199	EFH (C21-C30)	n.a.	20		0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	35		0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.50	J	0.46	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		6.96	23.0		1
07914	Boron	7440-42-8	8.86		0.414	5.75		1
01650	Calcium	7440-70-2	42,900		2.88	23.0		1
01654	Iron	7439-89-6	27,500		3.00	23.0		1
01656	Lithium	7439-93-2	24.9		0.71	2.3		1
01657	Magnesium	7439-95-4	5,900		0.506	11.5		1

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Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-5 SDG#: DE181-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	263		0.0414	0.575		1
10145	Phosphorus	7723-14-0	306		0.403	11.5		1
01662	Potassium	7440-09-7	3,320		13.0	57.5		1
01667	Sodium	7440-23-5	557		6.85	115		1
07968	Strontium	7440-24-6	64.8		0.0288	0.575		1
06969	Tin	7440-31-5	2.27	J	0.368	11.5		1
06970	Titanium	7440-32-6	1,220		0.0817	1.15		1
10146	Zirconium	7440-67-7	4.45	J	0.529	5.75		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0843	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.14		0.0911	0.456		2
06126	Barium	7440-39-3	168		0.121	0.456		2
06127	Beryllium	7440-41-7	0.913		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.358		0.0501	0.114		2
06131	Chromium	7440-47-3	35.4		0.137	0.456		2
06132	Cobalt	7440-48-4	10.6		0.0228	0.114		2
06133	Copper	7440-50-8	11.9		0.0911	0.456		2
06135	Lead	7439-92-1	10.7		0.0116	0.228		2
06138	Molybdenum	7439-98-7	0.390		0.0570	0.114		2
06139	Nickel	7440-02-0	25.1		0.114	0.456		2
06141	Selenium	7782-49-2	0.0661	U	0.0661	0.456		2
06142	Silver	7440-22-4	0.0862	J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.392		0.0342	0.114		2
06148	Vanadium	7440-62-2	68.1		0.0251	0.114		2
06149	Zinc	7440-66-6	70.1		0.638	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.0		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.57		1

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Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

181-5 SDG#: DE181-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-034-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 18:45	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 13:36	Jason M Long	23.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 13:13	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 21:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 16:08	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 20:52	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 23:11	Elizabeth J Marin	21.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:13	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/25/2011 01:33	James H Place	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-5 SDG#: DE181-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 21:53	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 19:56	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 12:54	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 05:08	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 16:25	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 20:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:49	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 10:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 10:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:27	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2

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Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316983
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-5 SDG#: DE181-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 10:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/25/2011 00:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/25/2011 00:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 17:32	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 12:43	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 19:04	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316984
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-6 SDG#: DE181-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4	U	7.4	8.8		0.94
06192	Benzene	71-43-2	0.11	U	0.11	4.4		0.94
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.4		0.94
06192	Bromochloromethane	74-97-5	0.36	U	0.36	4.4		0.94
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.4		0.94
06192	Bromoform	75-25-2	0.44	U	0.44	4.4		0.94
06192	Bromomethane	74-83-9	0.28	U	0.28	4.4		0.94
06192	2-Butanone	78-93-3	1.3	U	1.3	8.8		0.94
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.4		0.94
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.4		0.94
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.4		0.94
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.4		0.94
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.4		0.94
06192	Chloroethane	75-00-3	0.14	U	0.14	4.4		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33	U	0.33	4.4		0.94
06192	Chloroform	67-66-3	0.13	U	0.13	4.4		0.94
06192	Chloromethane	74-87-3	0.36	U	0.36	4.4		0.94
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.4		0.94
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.4		0.94
06192	Chlorotrifluoroethene	79-38-9	0.55	U	0.55	5.5		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77	U	0.77	4.4		0.94
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.4		0.94
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.4		0.94
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.4		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.4		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.4		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.4		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.4		0.94
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.4		0.94
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.4		0.94
06192	1,1-Dichloroethene	75-35-4	0.43	U	0.43	4.4		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.4		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.4		0.94
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.4		0.94
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.4		0.94
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.4		0.94
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.4		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.4		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.4		0.94
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.4		0.94
06192	Freon 113	76-13-1	0.12	U	0.12	4.4		0.94
06192	Freon 133a	75-88-7	0.55	U	0.55	5.5		0.94
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.4		0.94
06192	2-Hexanone	591-78-6	1.8	U	1.8	8.8		0.94
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.4		0.94
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.4		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23	U	0.23	4.4		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.43	U	0.43	8.8		0.94
06192	Methylene Chloride	75-09-2	1.5	J	0.26	4.4		0.94
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.4		0.94

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Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316984
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-6 SDG#: DE181-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.4		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.4		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25	U	0.25	4.4		0.94
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.4		0.94
06192	Toluene	108-88-3	0.1	J	0.09	4.4		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.4		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.4		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.4		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.4		0.94
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.4		0.94
06192	Trichlorofluoromethane	75-69-4	0.32	U	0.32	4.4		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.36	U	0.36	4.4		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.44	U	0.44	4.4		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.4		0.94
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.4		0.94
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.4		0.94
06192	o-Xylene	95-47-6	0.19	U	0.19	4.4		0.94
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	15		21.97
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200		1
04688	4-Chloroaniline	106-47-8	78	U	78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316984
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-6 SDG#: DE181-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	39	U	39	200		1
04688	4-Methylphenol	106-44-5	39	U	39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	39	U	39	200		1
04688	4-Nitroaniline	100-01-6	78	U	78	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	3.8		0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	5.4		0.78	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6		0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316984
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-6 SDG#: DE181-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9		1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,500		7.09	23.4		1
07914	Boron	7440-42-8	12.7		0.422	5.86		1
01650	Calcium	7440-70-2	60,600		2.93	23.4		1
01654	Iron	7439-89-6	29,000		3.06	23.4		1
01656	Lithium	7439-93-2	25.6		0.73	2.3		1
01657	Magnesium	7439-95-4	6,890		0.516	11.7		1
06958	Manganese	7439-96-5	270		0.0422	0.586		1
10145	Phosphorus	7723-14-0	439		0.410	11.7		1
01662	Potassium	7440-09-7	3,350		13.2	58.6		1
01667	Sodium	7440-23-5	128		6.98	117		1
07968	Strontium	7440-24-6	97.9		0.0293	0.586		1
06969	Tin	7440-31-5	2.36	J	0.375	11.7		1
06970	Titanium	7440-32-6	1,140		0.0832	1.17		1
10146	Zirconium	7440-67-7	5.17	J	0.539	5.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0851	0.230		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.42		0.0919	0.460		2
06126	Barium	7440-39-3	164		0.122	0.460		2
06127	Beryllium	7440-41-7	0.958		0.0184	0.115		2
06128	Cadmium	7440-43-9	0.434		0.0506	0.115		2
06131	Chromium	7440-47-3	36.7		0.138	0.460		2
06132	Cobalt	7440-48-4	13.3		0.0230	0.115		2
06133	Copper	7440-50-8	14.2		0.0929	0.464		2
06135	Lead	7439-92-1	11.7		0.0117	0.230		2
06138	Molybdenum	7439-98-7	0.392		0.0575	0.115		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316984
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-6 SDG#: DE181-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	25.0	0.115	0.460		2
06141	Selenium	7782-49-2	0.0749 J	0.0667	0.460		2
06142	Silver	7440-22-4	0.0714 J	0.0163	0.115		2
06145	Thallium	7440-28-0	0.436	0.0345	0.115		2
06148	Vanadium	7440-62-2	68.5	0.0253	0.115		2
06149	Zinc	7440-66-6	79.0	0.644	3.45		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.0	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.20	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-055-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 19:08	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 13:56	Jason M Long	21.97

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Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316984
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-6 SDG#: DE181-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:17	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 13:16	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 16:33	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 21:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 20:14	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:53	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 11:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 11:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:29	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 11:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316984
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-6 SDG#: DE181-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/25/2011 00:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 17:55	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 12:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316985
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-7 SDG#: DE181-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316985
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-7 SDG#: DE181-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316985
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-7 SDG#: DE181-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		6.49	21.4		1
07914	Boron	7440-42-8	5.16	J	0.386	5.36		1
01650	Calcium	7440-70-2	3,590		2.68	21.4		1
01654	Iron	7439-89-6	20,400		2.80	21.4		1
01656	Lithium	7439-93-2	20.5		0.66	2.1		1
01657	Magnesium	7439-95-4	3,710		0.472	10.7		1
06958	Manganese	7439-96-5	147		0.0386	0.536		1
10145	Phosphorus	7723-14-0	132		0.375	10.7		1
01662	Potassium	7440-09-7	1,810		12.1	53.6		1
01667	Sodium	7440-23-5	150		6.38	107		1
07968	Strontium	7440-24-6	20.6		0.0268	0.536		1
06969	Tin	7440-31-5	2.56	J	0.343	10.7		1
06970	Titanium	7440-32-6	883		0.0761	1.07		1
10146	Zirconium	7440-67-7	2.55	J	0.493	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0817	U	0.0817	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.91		0.0883	0.442		2
06126	Barium	7440-39-3	67.4		0.117	0.442		2
06127	Beryllium	7440-41-7	0.591		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.0884	J	0.0486	0.110		2
06131	Chromium	7440-47-3	21.1		0.132	0.442		2
06132	Cobalt	7440-48-4	9.00		0.0221	0.110		2
06133	Copper	7440-50-8	9.41		0.0883	0.442		2
06135	Lead	7439-92-1	6.05		0.0113	0.221		2
06138	Molybdenum	7439-98-7	0.371		0.0552	0.110		2
06139	Nickel	7440-02-0	13.8		0.110	0.442		2
06141	Selenium	7782-49-2	0.0640	U	0.0640	0.442		2
06142	Silver	7440-22-4	0.0860	J	0.0157	0.110		2
06145	Thallium	7440-28-0	0.250		0.0331	0.110		2
06148	Vanadium	7440-62-2	33.8		0.0243	0.110		2
06149	Zinc	7440-66-6	41.9		0.618	3.31		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.3		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.22	1.1		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316985
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-7 SDG#: DE181-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.34	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011	16:58	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011	21:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011	07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011	18:05	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111730021A	06/23/2011	19:37	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011	20:33	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011	03:30	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111730021A	06/23/2011	09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011	04:58	Tara L Snyder	1

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Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316985
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-7 SDG#: DE181-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 04:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 11:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 11:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:32	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 11:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/25/2011 00:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 18:18	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 13:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316986
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-8 SDG#: DE181-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1	U	7.1	8.5		0.89
06192	Benzene	71-43-2	0.11	U	0.11	4.2		0.89
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2		0.89
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2		0.89
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.2		0.89
06192	Bromoform	75-25-2	0.43	U	0.43	4.2		0.89
06192	Bromomethane	74-83-9	0.27	U	0.27	4.2		0.89
06192	2-Butanone	78-93-3	1.3	U	1.3	8.5		0.89
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2		0.89
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2		0.89
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2		0.89
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2		0.89
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2		0.89
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32	U	0.32	4.2		0.89
06192	Chloroform	67-66-3	0.13	U	0.13	4.2		0.89
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2		0.89
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2		0.89
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2		0.89
06192	Chlorotrifluoroethene	79-38-9	0.53	U	0.53	5.3		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74	U	0.74	4.2		0.89
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2		0.89
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2		0.89
06192	Dibromomethane	74-95-3	0.26	U	0.26	4.2		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2		0.89
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2		0.89
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.2		0.89
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2		0.89
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2		0.89
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2		0.89
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.2		0.89
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2		0.89
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2		0.89
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2		0.89
06192	Freon 113	76-13-1	0.12	U	0.12	4.2		0.89
06192	Freon 133a	75-88-7	0.53	U	0.53	5.3		0.89
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2		0.89
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.5		0.89
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2		0.89
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.5		0.89
06192	Methylene Chloride	75-09-2	1.3	J	0.26	4.2		0.89
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2		0.89

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Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316986
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-8 SDG#: DE181-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.2		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2		0.89
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2		0.89
06192	Toluene	108-88-3	0.1	J	0.09	4.2		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.29	U	0.29	4.2		0.89
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2		0.89
06192	Trichlorofluoromethane	75-69-4	0.31	U	0.31	4.2		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.43	U	0.43	4.2		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.2		0.89
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2		0.89
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2		0.89
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2		0.89
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.5	U	5.5	17		23.32
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1

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Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316986
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-8 SDG#: DE181-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1

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Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316986
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-8 SDG#: DE181-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,700		6.91	22.8		1
07914	Boron	7440-42-8	12.3		0.411	5.71		1
01650	Calcium	7440-70-2	37,800		2.85	22.8		1
01654	Iron	7439-89-6	31,200		14.9	114		5
01656	Lithium	7439-93-2	26.2		0.71	2.3		1
01657	Magnesium	7439-95-4	7,140		0.502	11.4		1
06958	Manganese	7439-96-5	353		0.0411	0.571		1
10145	Phosphorus	7723-14-0	419		0.400	11.4		1
01662	Potassium	7440-09-7	3,570		12.9	57.1		1
01667	Sodium	7440-23-5	183		6.79	114		1
07968	Strontium	7440-24-6	61.5		0.0285	0.571		1
06969	Tin	7440-31-5	2.40	J	0.365	11.4		1
06970	Titanium	7440-32-6	1,220		0.0811	1.14		1
10146	Zirconium	7440-67-7	5.25	J	0.525	5.71		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0845	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.53		0.0914	0.457		2
06126	Barium	7440-39-3	157		0.121	0.457		2
06127	Beryllium	7440-41-7	0.913		0.0183	0.114		2
06128	Cadmium	7440-43-9	0.442		0.0502	0.114		2
06131	Chromium	7440-47-3	34.8		0.137	0.457		2
06132	Cobalt	7440-48-4	13.5		0.0228	0.114		2
06133	Copper	7440-50-8	17.6		0.0950	0.475		2
06135	Lead	7439-92-1	11.0		0.0116	0.228		2

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Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316986
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-8 SDG#: DE181-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.290	0.0571	0.114		2
06139	Nickel	7440-02-0	29.4	0.114	0.457		2
06141	Selenium	7782-49-2	0.0743 J	0.0662	0.457		2
06142	Silver	7440-22-4	0.0527 J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.402	0.0343	0.114		2
06148	Vanadium	7440-62-2	64.2	0.0251	0.114		2
06149	Zinc	7440-66-6	76.8	0.640	3.43		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081 U	0.0081	0.115		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.5	0.95	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.20	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-056-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 19:30	Chelsea B Eastep	0.89

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Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316986
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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181-8 SDG#: DE181-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 14:16	Jason M Long	23.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:19	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 13:19	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 17:23	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 22:26	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 22:06	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 16:07	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 05:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:34	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 11:09	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316986
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-8 SDG#: DE181-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/25/2011 01:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 18:41	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11186243201A	07/06/2011 13:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316987
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-9 SDG#: DE181-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316987
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-9 SDG#: DE181-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,500		6.92	22.9		1
07914	Boron	7440-42-8	8.09		0.412	5.72		1
01650	Calcium	7440-70-2	86,800		14.3	114		5

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Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316987
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-9 SDG#: DE181-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	24,900		2.99	22.9		1
01656	Lithium	7439-93-2	21.9		0.71	2.3		1
01657	Magnesium	7439-95-4	5,000		0.503	11.4		1
06958	Manganese	7439-96-5	150		0.0412	0.572		1
10145	Phosphorus	7723-14-0	235		0.400	11.4		1
01662	Potassium	7440-09-7	2,190		12.9	57.2		1
01667	Sodium	7440-23-5	148		6.81	114		1
07968	Strontium	7440-24-6	44.1		0.0286	0.572		1
06969	Tin	7440-31-5	2.26	J	0.366	11.4		1
06970	Titanium	7440-32-6	1,040		0.0812	1.14		1
10146	Zirconium	7440-67-7	3.94	J	0.526	5.72		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0830	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.71		0.0897	0.449		2
06126	Barium	7440-39-3	117		0.119	0.449		2
06127	Beryllium	7440-41-7	1.02		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.234		0.0494	0.112		2
06131	Chromium	7440-47-3	35.3		0.135	0.449		2
06132	Cobalt	7440-48-4	9.37		0.0224	0.112		2
06133	Copper	7440-50-8	11.3		0.0906	0.453		2
06135	Lead	7439-92-1	10.9		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.316		0.0561	0.112		2
06139	Nickel	7440-02-0	23.0		0.112	0.449		2
06141	Selenium	7782-49-2	0.0651	U	0.0651	0.449		2
06142	Silver	7440-22-4	0.0836	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.376		0.0337	0.112		2
06148	Vanadium	7440-62-2	59.2		0.0247	0.112		2
06149	Zinc	7440-66-6	73.3		0.628	3.37		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.114		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.7		0.92	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316987
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-9 SDG#: DE181-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011	17:48	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011	22:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011	07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011	18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011	22:24	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011	03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011	16:19	Eric L Eby	5
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011	05:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011	11:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011	11:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011	11:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316987
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

181-9 SDG#: DE181-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:36	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 11:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/25/2011 01:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 19:05	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11186243201A	07/06/2011 13:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6316988
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18110 SDG#: DE181-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8	U	6.8	8.2		0.9
06192	Benzene	71-43-2	0.10	U	0.10	4.1		0.9
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1		0.9
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1		0.9
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1		0.9
06192	Bromoform	75-25-2	0.41	U	0.41	4.1		0.9
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1		0.9
06192	2-Butanone	78-93-3	1.2	U	1.2	8.2		0.9
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1		0.9
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1		0.9
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1		0.9
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1		0.9
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1		0.9
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1		0.9
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1		0.9
06192	Chloroform	67-66-3	0.12	U	0.12	4.1		0.9
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1		0.9
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1		0.9
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1		0.9
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1		0.9
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1		0.9
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1		0.9
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1		0.9
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1		0.9
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1		0.9
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1		0.9
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1		0.9
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1		0.9
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1		0.9
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1		0.9
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1		0.9
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1		0.9
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1		0.9
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1		0.9
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1		0.9
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1		0.9
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1		0.9
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1		0.9
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1		0.9
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1		0.9
06192	Freon 113	76-13-1	0.11	U	0.11	4.1		0.9
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1		0.9
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1		0.9
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.2		0.9
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1		0.9
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1		0.9
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.1		0.9
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.2		0.9
06192	Methylene Chloride	75-09-2	1.9	J	0.24	4.1		0.9
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1		0.9

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Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6316988
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18110 SDG#: DE181-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1		0.9
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1		0.9
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1		0.9
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1		0.9
06192	Toluene	108-88-3	0.1	J	0.08	4.1		0.9
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1		0.9
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1		0.9
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1		0.9
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.1		0.9
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1		0.9
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.1		0.9
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1		0.9
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1		0.9
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1		0.9
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1		0.9
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1		0.9
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1		0.9
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.7	U	4.7	14		20.53
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	24.5	J	19.0	37.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1

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Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6316988
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18110 SDG#: DE181-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6316988
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18110 SDG#: DE181-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.97
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1

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Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6316988
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
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18110 SDG#: DE181-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	25a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	J	0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
Terphenyls	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		6.68	22.1		1
07914	Boron	7440-42-8	6.15		0.398	5.52		1
01650	Calcium	7440-70-2	4,520		2.76	22.1		1
01654	Iron	7439-89-6	23,700		2.88	22.1		1
01656	Lithium	7439-93-2	21.7		0.68	2.2		1
01657	Magnesium	7439-95-4	4,650		0.486	11.0		1

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SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6316988
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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18110 SDG#: DE181-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	156		0.0398	0.552		1
10145	Phosphorus	7723-14-0	215		0.387	11.0		1
01662	Potassium	7440-09-7	2,240		12.5	55.2		1
01667	Sodium	7440-23-5	250		6.57	110		1
07968	Strontium	7440-24-6	20.7		0.0276	0.552		1
06969	Tin	7440-31-5	2.52	J	0.353	11.0		1
06970	Titanium	7440-32-6	1,020		0.0784	1.10		1
10146	Zirconium	7440-67-7	3.00	J	0.508	5.52		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0834	U	0.0834	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.78		0.0901	0.451		2
06126	Barium	7440-39-3	101		0.119	0.451		2
06127	Beryllium	7440-41-7	0.793		0.0180	0.113		2
06128	Cadmium	7440-43-9	0.151		0.0496	0.113		2
06131	Chromium	7440-47-3	24.2		0.135	0.451		2
06132	Cobalt	7440-48-4	14.2		0.0225	0.113		2
06133	Copper	7440-50-8	20.3		0.0892	0.446		2
06135	Lead	7439-92-1	10.7		0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.265		0.0563	0.113		2
06139	Nickel	7440-02-0	19.4		0.113	0.451		2
06141	Selenium	7782-49-2	0.0653	U	0.0653	0.451		2
06142	Silver	7440-22-4	0.0470	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.269		0.0338	0.113		2
06148	Vanadium	7440-62-2	44.7		0.0248	0.113		2
06149	Zinc	7440-66-6	49.8		0.631	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103	J	0.0076	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	17a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.57		1

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18110 SDG#: DE181-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.36	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	12.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111712AA	06/20/2011 19:52	Chelsea B Eastep	0.9
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 14:36	Jason M Long	20.53
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:22	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116724687	06/16/2011 13:27	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116724687	06/16/2011 13:22	Christopher D Meeks	n.a.
11622	15a NDMA by 1625C	EPA 1625C	1	11174SLE026	07/01/2011 22:06	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 18:13	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172SLD026	07/01/2011 23:28	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11174SLE026	06/23/2011 15:00	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11172SLD026	06/22/2011 07:45	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11168A34A	06/17/2011 23:48	Elizabeth J Marin	21.97
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201116724687	06/16/2011 13:22	Christopher D Meeks	n.a.
10132	16a Energetics by 8330A	SW-846 8330A	1	111710008A	06/25/2011 03:40	James H Place	1
04173	25a Formaldehyde 8315A	SW-846 8315A	1	111720004A	06/22/2011 22:03	Michele D Hamilton	1

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 22:43	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	111720004A	06/21/2011 14:45	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	111710008A	06/20/2011 15:10	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720038A	06/23/2011 10:23	Heather E Williams	1
10501	19a Alcohols by 8015B	SW-846 8015B	1	111680012A	06/18/2011 05:23	Tyler O Griffin	1
08283	21a Glycols by 8015B	SW-846 8015B modified	1	111680006A	06/17/2011 16:38	Dustin A Underkoffler	1
10318	20a Terphenyls by 8015B	SW-846 8015B	1	111740021A	06/25/2011 21:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	111720038A	06/22/2011 07:30	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	111740021A	06/24/2011 02:30	Sherry L Morrow	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	111680012A	06/17/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	111680006A	06/17/2011 09:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	111725708004	06/29/2011 05:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111721026003D	06/23/2011 11:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111751026001A	06/29/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111721026003C	06/23/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111721026003B	06/24/2011 00:39	David K Beck	2
06142	Silver	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111721026003A	06/23/2011 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111725711007	06/23/2011 06:43	Damary Valentin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6316988
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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18110 SDG#: DE181-10FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	111725708004	06/22/2011 08:25	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111721026003	06/22/2011 09:17	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	111751026001	06/27/2011 08:40	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111725711007	06/22/2011 10:05	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621202B	06/25/2011 01:46	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11175621202B	06/25/2011 01:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11174621203B	07/05/2011 19:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/06/2011 13:50	Elyse P Brunstetter	1
05895	17a Cyanide by 9012B	SW-846 9012B	1	11175102201A	06/27/2011 19:05	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621202B	06/24/2011 06:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11174621203B	06/23/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11175102201A	06/24/2011 14:50	Carolyn M Mastropietro	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401A	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-061511 Water
SSFL Area IV Collocated Soil Sampling
TB-061511

LLI Sample # WW 6316989
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 08:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18111 SDG#: DE181-11TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-061511 Water
SSFL Area IV Collocated Soil Sampling
TB-061511

LLI Sample # WW 6316989
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 08:00

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18111 SDG#: DE181-11TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111691AA	06/18/2011 14:37	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111671AA	06/16/2011 20:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111671AA	06/16/2011 20:12	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111691AA	06/18/2011 14:37	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11174A20A	06/23/2011 20:09	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11174A20A	06/23/2011 20:09	Laura M Krieger	1

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Lancaster Laboratories

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Analysis Report

Sample Description: EB18-SA5DN-SB-061511 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18112 SDG#: DE181-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB18-SA5DN-SB-061511 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18112 SDG#: DE181-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	9		2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.8	J	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	3.37		0.531	1.06		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	2	U	2	10		1
04678	Benzidine	92-87-5	40	U	40	120		1
04678	Benzoic acid	65-85-0	12	U	12	30		1
04678	Benzyl alcohol	100-51-6	10	U	10	30		1
04678	4-Bromophenyl-phenylether	101-55-3	2	U	2	10		1
04678	Carbazole	86-74-8	2	U	2	10		1
04678	4-Chloro-3-methylphenol	59-50-7	2	U	2	10		1
04678	4-Chloroaniline	106-47-8	2	U	2	10		1
04678	bis(2-Chloroethoxy)methane	111-91-1	2	U	2	10		1
04678	bis(2-Chloroethyl)ether	111-44-4	2	U	2	10		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	2	U	2	10		1
04678	2-Chloronaphthalene	91-58-7	4	U	4	10		1
04678	2-Chlorophenol	95-57-8	2	U	2	10		1
04678	4-Chlorophenyl-phenylether	7005-72-3	4	U	4	10		1
04678	Dibenzofuran	132-64-9	2	U	2	10		1
04678	1,2-Dichlorobenzene	95-50-1	2	U	2	10		1
04678	1,3-Dichlorobenzene	541-73-1	2	U	2	10		1
04678	1,4-Dichlorobenzene	106-46-7	2	U	2	10		1
04678	3,3'-Dichlorobenzidine	91-94-1	4	U	4	10		1
04678	2,4-Dichlorophenol	120-83-2	2	U	2	10		1
04678	2,4-Dimethylphenol	105-67-9	6	U	6	20		1
04678	3,5-Dimethylphenol	108-68-9	6	U	6	20		1

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Sample Description: EB18-SA5DN-SB-061511 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18112 SDG#: DE181-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	4,6-Dinitro-2-methylphenol	534-52-1	10	U	10	30		1
04678	2,4-Dinitrophenol	51-28-5	20	U	20	60		1
04678	2,4-Dinitrotoluene	121-14-2	2	U	2	10		1
04678	2,6-Dinitrotoluene	606-20-2	2	U	2	10		1
04678	1,2-Diphenylhydrazine	122-66-7	2	U	2	10		1
04678	Hexachlorobenzene	118-74-1	2	U	2	10		1
04678	Hexachlorobutadiene	87-68-3	2	U	2	10		1
04678	Hexachlorocyclopentadiene	77-47-4	10	U	10	30		1
04678	Hexachloroethane	67-72-1	2	U	2	10		1
04678	Isophorone	78-59-1	2	U	2	10		1
04678	2-Methylphenol	95-48-7	2	U	2	10		1
04678	4-Methylphenol	106-44-5	4	U	4	10		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	2	U	2	10		1
04678	3-Nitroaniline	99-09-2	2	U	2	10		1
04678	4-Nitroaniline	100-01-6	2	U	2	10		1
04678	Nitrobenzene	98-95-3	2	U	2	10		1
04678	2-Nitrophenol	88-75-5	2	U	2	10		1
04678	4-Nitrophenol	100-02-7	20	U	20	60		1
04678	N-Nitroso-di-n-propylamine	621-64-7	2	U	2	10		1
04678	N-Nitrosodiphenylamine	86-30-6	4	U	4	10		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	6	U	6	30		1
04678	Phenol	108-95-2	2	U	2	10		1
04678	1,2,4-Trichlorobenzene	120-82-1	2	U	2	10		1
04678	2,4,5-Trichlorophenol	95-95-4	2	U	2	10		1
04678	2,4,6-Trichlorophenol	88-06-2	2	U	2	10		1
Reporting limits were raised due to limited sample volume.								
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.11	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.050	U	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.21	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1

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Sample Description: EB18-SA5DN-SB-061511 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18112 SDG#: DE181-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.013	J	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.014	J	0.010	0.050		1
10137	Naphthalene	91-20-3	0.11		0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010	U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
dimethylphthalate

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 0.069 ug/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and bis(2-ethylhexyl)phthalate was again detected in the method blank and sample. Comparable data was observed between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1

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SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18112 SDG#: DE181-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.95		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

The LCS recovery for Tetryl is outside the QC limits. Results from the reextraction are also outside the limits. The hold time had expired prior to the reextraction. The client was contacted and the original data is reported. Similar results were obtained in both extracts.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	25b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.099	U	0.099	0.50		1
10227	Aroclor 5442	12642-23-8	0.099	U	0.099	0.50		1
10227	Aroclor 5460	11126-42-4	0.099	U	0.099	0.50		1
10227	PCB-1016	12674-11-2	0.099	U	0.099	0.50		1
10227	PCB-1221	11104-28-2	0.099	U	0.099	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.099	U	0.099	0.50		1
10227	PCB-1248	12672-29-6	0.099	U	0.099	0.50		1
10227	PCB-1254	11097-69-1	0.099	U	0.099	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Extractable TPH	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18112 SDG#: DE181-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	100		1
Terphenyls	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.082	U	0.082	0.25		1
10319	o-Terphenyl	84-15-1	0.082	U	0.082	0.25		1
10319	p-Terphenyl	92-94-4	0.082	U	0.082	0.25		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0033	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026	U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB18-SA5DN-SB-061511 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

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18112 SDG#: DE181-12EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		ug/l		ug/l	ug/l	ug/l	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		ug/l		ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	SW-846 9012B		mg/l		mg/l	mg/l	mg/l	
08255	17b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1
	SW-846 9040B		Std. Units		Std. Units	Std. Units	Std. Units	
00200	18b pH by 9040B	n.a.	5.6		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111691AA	06/18/2011	14:59	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111671AA	06/16/2011	20:32	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E111671AA	06/16/2011	20:32	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L111691AA	06/18/2011	14:59	Nicholas R Rossi	1
10962	15b NDMA by 1625C	EPA 1625C	1	11171WAG026	07/01/2011	12:02	Timothy J Trees	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11171WAB026	06/23/2011	03:53	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11172WAB026	06/28/2011	17:22	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11171WAB026	06/20/2011	19:15	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11172WAB026	06/21/2011	18:30	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11171WAG026	06/21/2011	02:10	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11174A20A	06/23/2011	20:31	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11174A20A	06/23/2011	20:31	Laura M Krieger	1

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Laboratory Sample Analysis Record

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10131	16b Energetics by 8330A	SW-846 8330A	1	111670031A	06/19/2011 08:39	James H Place	1
04144	25b Formaldehyde 8315A	SW-846 8315A	1	111670003A	06/16/2011 23:32	Michele D Hamilton	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	111720013A	06/24/2011 16:31	Sarah M Snyder	1
11117	PCB Waters Extraction	SW-846 3510C	1	111720013A	06/21/2011 15:20	JoElla L Rice	1
01013	Formaldehyde Extraction	SW-846 8315A	1	111670003A	06/16/2011 13:45	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	111670031A	06/17/2011 16:15	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	111720025A	06/22/2011 19:39	Heather E Williams	1
06624	19b Alcohols by 8015B	SW-846 8015B	1	111680013A	06/18/2011 01:26	Tyler O Griffin	1
08278	21b Glycols by 8015B	SW-846 8015B modified	1	111710001A	06/20/2011 16:53	Dustin A Underkoffler	1
10319	20b Terphenyls by 8015B	SW-846 8015B	1	111670036A	06/20/2011 18:38	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	111720025A	06/22/2011 02:30	David V Hershey Jr	1
10304	Terphenyls water prep	SW-846 3510C	1	111670036A	06/18/2011 04:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
08014	Boron	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
01750	Calcium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
01754	Iron	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
01756	Lithium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
01757	Magnesium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
07058	Manganese	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
01762	Potassium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
01767	Sodium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
08068	Strontium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
07069	Tin	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
07070	Titanium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
10144	Zirconium	SW-846 6010B	1	111721848002	06/24/2011 17:50	John P Hook	1
06024	Antimony	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06026	Barium	SW-846 6020	1	111726050004D	06/23/2011 13:33	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06033	Copper	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06035	Lead	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	111726050004C	06/23/2011 13:33	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	111726050004B	06/23/2011 13:33	Choon Y Tian	1
06042	Silver	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	111726050004A	06/23/2011 13:33	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	111735713002	06/23/2011 06:36	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	111721848002	06/22/2011 09:44	Denise K Conners	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB18-SA5DN-SB-061511 Water**
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6316990
LLI Group # 1251717
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/12/2011 08:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

18112 SDG#: DE181-12EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	111726050004	06/22/2011 09:40	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	111735713002	06/22/2011 16:20	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11167196901C	06/17/2011 09:46	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11167196901C	06/17/2011 09:46	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11173281701B	06/22/2011 19:02	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11167281401A	06/16/2011 11:23	Elyse P Brunstetter	1
08255	17b Cyanide by 9012B	SW-846 9012B	1	11175117101B	06/27/2011 18:50	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11175117101B	06/24/2011 14:50	Carolyn M Mastropietro	1
00200	18b pH by 9040B	SW-846 9040B	1	11168020002A	06/17/2011 21:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111712AA	Sample number(s): 6316976-6316980,6316982-6316984,6316986,6316988									
Acetone	6.7	U	6.7	8.0	ug/kg	112		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	107		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	110		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	104		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	105		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	81		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	98		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	111		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	108		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	114		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	111		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	74		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	88		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	110		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	94		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	106		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	111		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	54		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	108		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	107		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	106		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	100		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	110		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	108		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	108		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	93		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	112		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	112		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	105		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	105		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	107		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	107		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	98		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	100		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	112		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	110		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	98		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	103		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	104		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	114		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	110		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	104		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	101		61-134		
Methylene Chloride	0.87	J	0.24	4.0	ug/kg	112		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	113		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	112		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	112		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	114		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	111		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	104		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	99		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	110		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	107		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	103		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	102		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	110		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	112		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	91		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	116		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	112		80-120		
Batch number: E111671AA	Sample number(s): 6316989-6316990									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	103	80-123	1	30
Batch number: E111711AA	Sample number(s): 6316976-6316980,6316982-6316984,6316986,6316988									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	95	104	70-130	9	30
Batch number: L111691AA	Sample number(s): 6316989-6316990									
Acetone	6	U	6.	20	ug/l	142	138	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	99	96	79-120	4	30
Bromobenzene	1	U	1.	5	ug/l	100	96	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	95	90	80-120	6	30
Bromoform	1	U	1.	5	ug/l	89	86	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	93	91	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	106	101	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	98	95	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	94	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	95	90	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	95	80-120	5	30
Chloroethane	1	U	1.	5	ug/l	93	91	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	87	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	98	94	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	94	92	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	44	46	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	80	79	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	94	93	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	97	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	95	91	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	95	80-120	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	96	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	78	76	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	91	79-120	5	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	96	93	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	92	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	94	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	93	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	93	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	93	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	91	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	89	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	84	81	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	87	88	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	87	87	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	91	89	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	101	97	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	92	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	93	90	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	81	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	98	94	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	97	94	80-120	3	30
Styrene	1	U	1.	5	ug/l	98	95	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	94	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	96	94	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	96	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	99	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	81	75-127	5	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	98	92	80-120	6	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	87	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	97	94	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	95	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	94	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	93	89	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	97	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
Batch number: 11171WAB026	Sample number(s): 6316990									
Aniline	1	U	1.	5	ug/l	72	82	49-101	14	30
Benzidine	20	U	20.	60	ug/l	70	83	34-117	18	30
Benzoic acid	6	U	6.	15	ug/l	47	39	10-69	18	30
Benzyl alcohol	5	U	5.	15	ug/l	83	84	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	97	91	82-117	7	30
Carbazole	1	U	1.	5	ug/l	97	94	81-114	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	94	93	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	55	68	42-124	21	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	103	95	74-124	8	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	95	92	77-108	4	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	97	98	62-127	1	30
2-Chloronaphthalene	2	U	2.	5	ug/l	74	70	54-132	6	30
2-Chlorophenol	1	U	1.	5	ug/l	94	93	77-108	1	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	95	92	82-111	4	30
Dibenzofuran	1	U	1.	5	ug/l	96	94	83-108	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	92	92	55-118	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	95	94	50-119	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	95	92	53-119	3	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	57	67	49-111	16	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	94	80-109	3	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	96	93	72-110	3	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	97	97	70-130	0	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	97	97	78-119	0	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	93	92	52-131	0	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	95	94	81-115	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	92	94	85-115	3	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	103	99	78-116	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	96	94	81-118	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	95	94	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	86	36-118	4	30
Hexachloroethane	1	U	1.	5	ug/l	90	89	52-113	1	30
Isophorone	1	U	1.	5	ug/l	99	96	74-117	3	30
2-Methylphenol	1	U	1.	5	ug/l	87	87	64-101	1	30
4-Methylphenol	2	U	2.	5	ug/l	79	81	61-103	3	30
2-Nitroaniline	1	U	1.	5	ug/l	96	94	83-116	2	30
3-Nitroaniline	1	U	1.	5	ug/l	94	97	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	76	77	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	97	96	75-109	1	30
2-Nitrophenol	1	U	1.	5	ug/l	98	91	86-120	7	30
4-Nitrophenol	10	U	10.	30	ug/l	51	49	16-78	4	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	93	93	69-110	0	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	97	93	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	94	93	53-110	1	30
Phenol	1	U	1.	5	ug/l	45	46	21-67	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	93	71-112	5	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	94	92	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	97	95	81-113	2	30
Batch number: 11171WAG026	Sample number(s): 6316990									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	101	103	70-130	2	30
Batch number: 11172SLD026	Sample number(s): 6316976-6316980,6316982-6316988									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	79		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	72		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	80		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	92		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	98		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	96		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	89		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	80		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	100		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	89		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	77		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	76		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	79		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	81		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	80		75-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Pyrene	0.67	U	0.67	1.7	ug/kg	85		56-121		
Batch number: 11172WAB026	Sample number(s): 6316990									
Acenaphthene	0.010	U	0.010	0.050	ug/l	97	90	74-109	7	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	88	83	70-110	6	30
Anthracene	0.010	U	0.010	0.050	ug/l	94	92	66-111	3	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	100	96	72-114	4	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	102	95	60-127	6	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	113	105	69-123	7	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	102	96	57-131	6	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	101	98	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	70	64	40-138	8	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	98	92	74-131	6	30
Chrysene	0.010	U	0.010	0.050	ug/l	99	95	76-116	4	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	102	96	55-134	7	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	79	72	57-134	10	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	43	39*	40-119	8	30
Bis(2-Ethylhexyl)phthalate	0.069	J	0.050	1.0	ug/l	110	108	57-154	2	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	98	94	75-116	4	30
Fluorene	0.010	U	0.010	0.050	ug/l	94	88	75-114	6	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	103	97	69-124	6	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	100	95	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	90	85	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	92	87	72-109	6	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	76	68	36-89	10	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	116	109	57-145	6	30
Phenanthrene	0.010	U	0.010	0.050	ug/l	92	88	76-111	5	30
Pyrene	0.010	U	0.010	0.050	ug/l	93	88	69-118	5	30
Batch number: 11174SLE026	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	88		70-130		
Batch number: 11180SLA026	Sample number(s): 6316976-6316980,6316982-6316988									
Acenaphthene	17	U	17.	170	ug/kg	91		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	95		75-122		
Aniline	170 U		170.	500	ug/kg	63		34-94		
Anthracene	17	U	17.	170	ug/kg	95		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	93		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	95		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	97		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	95		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	97		67-125		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92		68-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	98		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	93		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	35		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	95		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	62		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	98		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	90		75-117		
Fluoranthene	17	U	17.	170	ug/kg	97		78-116		
Fluorene	17	U	17.	170	ug/kg	95		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	91		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	93		64-119		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	87		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	97		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
Naphthalene	17	U	17.	170	ug/kg	88		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	85		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	96		68-130		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	93		58-112		
Pyrene	17	U	17.	170	ug/kg	100		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11168A34A	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11174A20A	Sample number(s): 6316989-6316990									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 111670031A	Sample number(s): 6316990									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	110	80-120	10	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	100	100	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	97	100	75-121	3	30
Nitroglycerin	5.2	U	5.2	15	ug/l	88	92	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	98	100	74-120	2	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	110*	110*	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	98	100	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	117	117	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	88	92	70-125	4	30
Tetryl	0.40	U	0.40	0.60	ug/l	44*	81	72-141	59*	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	67	93	53-129	33*	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	96	100	76-109	4	30
Batch number: 111710008A	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	114		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	116		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	97	98	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	97	97	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	121		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	111		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	114		80-120		
HMX	100 U		100.	300	ug/kg	102		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	117		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	97		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	114		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	122		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	112		80-120		
PETN	800 U		800.	2,400	ug/kg	106		80-120		
RDX	50	U	50.	120	ug/kg	107		75-131		
Tetryl	61	U	61.	120	ug/kg	118		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	118		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	120		80-120		
Batch number: 111670003A	Sample number(s): 6316990									
25b Formaldehyde 8315A	10	U	10.	50	ug/l	90	94	69-130	4	30
Batch number: 111720004A	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
25a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 111730021A	Sample number(s): 6316982,6316985									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	110		85-115		
Batch number: 111720013A	Sample number(s): 6316990									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	62	82	35-84	28	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	94	96	51-128	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	96	96	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 111730018A	Sample number(s): 6316976-6316980,6316982-6316988									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	98	96	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111720025A	Sample number(s): 6316990									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	94	88	69-125	7	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	93	88	77-125	6	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	85	68-124	9	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	87	80-121	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	74	72	46-103	3	30
Batch number: 111720038A	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		71-118		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	95		76-122		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		69-132		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	94		67-127		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	76		54-107		
Batch number: 111680006A	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
Diethylene glycol	5.0	U	5.0	10	mg/kg	88		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		65-122		
Propylene glycol	5.0	U	5.0	10	mg/kg	87		75-125		
Batch number: 111680012A	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
Ethanol	100 U		100.	500	ug/kg	98		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	102		68-129		
Batch number: 111680013A	Sample number(s): 6316990									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethanol	200 U		200.	1,000	ug/l	100		66-132		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	104		71-140		
Batch number: 111710001A	Sample number(s): 6316990									
Diethylene glycol	10	U	10.	100	mg/l	105	120	78-126	13	20
Ethylene glycol	10	U	10.	100	mg/l	95	110	80-124	15	20
Propylene glycol	10	U	10.	100	mg/l	95	110	80-120	15	20
Batch number: 111670036A	Sample number(s): 6316990									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	80	87	75-125	8	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	92	100	75-125	8	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	90	99	75-125	10	20
Batch number: 111740021A	Sample number(s): 6316976-6316980,6316982-6316983,6316988									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		75-125		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
Batch number: 111721026003A	Sample number(s): 6316976-6316988									
Antimony	0.0869	J	0.0718	0.194	mg/kg	68		27-181		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	104		83-113		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	104		86-111		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	107		82-118		
Chromium	0.117	U	0.117	0.388	mg/kg	96		80-120		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	103		82-118		
Lead	0.0099	U	0.0099	0.194	mg/kg	101		83-110		
Nickel	0.0971	U	0.0971	0.388	mg/kg	105		81-110		
Silver	0.0138	U	0.0138	0.0971	mg/kg	105		81-111		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	104		83-110		
Vanadium	0.0214	U	0.0214	0.0971	mg/kg	88		84-116		
Zinc	0.544	U	0.544	2.91	mg/kg	105		81-112		
Batch number: 111721026003B	Sample number(s): 6316976-6316988									
Selenium	0.0563	U	0.0563	0.388	mg/kg	101		83-111		
Batch number: 111721026003C	Sample number(s): 6316976-6316988									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	108		78-122		
Batch number: 111721026003D	Sample number(s): 6316976-6316988									
Barium	0.103	U	0.103	0.388	mg/kg	103		81-111		
Batch number: 111721848002	Sample number(s): 6316990									
Aluminum	0.0801	U	0.0801	0.200	mg/l	103	103	90-112	0	20
Boron	0.0034	J	0.0022	0.0500	mg/l	102	101	89-110	1	20
Calcium	0.0705	U	0.0705	0.200	mg/l	104	103	90-112	1	20
Iron	0.0141	U	0.0141	0.200	mg/l	104	102	90-112	1	20
Lithium	0.0076	U	0.0076	0.0200	mg/l	103	103	80-120	0	20
Magnesium	0.0092	J	0.0067	0.100	mg/l	101	101	89-110	0	20
Manganese	0.00044	U	0.00044	0.0050	mg/l	107	106	90-110	1	20
Phosphorus	0.0047	U	0.0047	0.100	mg/l	105	103	80-120	2	20
Potassium	0.0874	U	0.0874	0.500	mg/l	102	101	85-115	0	20
Sodium	0.0647	U	0.0647	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00022	U	0.00022	0.0050	mg/l	105	104	90-110	1	20
Tin	0.0043	U	0.0043	0.0200	mg/l	105	103	90-110	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.00046 U	0.00046	0.0100	mg/l	105	105	90-113	1	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	109	110	80-120	1	20
Batch number: 111725708004	Sample number(s): 6316976-6316988								
Aluminum	5.93 U	5.93	19.6	mg/kg	91		61-110		
Boron	0.353 U	0.353	4.90	mg/kg	91		78-110		
Calcium	4.41 J	2.45	19.6	mg/kg	99		88-110		
Iron	2.56 U	2.56	19.6	mg/kg	84		61-110		
Lithium	0.61 U	0.61	2.0	mg/kg	103		80-120		
Magnesium	0.431 U	0.431	9.80	mg/kg	93		82-110		
Manganese	0.0353 U	0.0353	0.490	mg/kg	96		89-112		
Phosphorus	1.56 J	0.343	9.80	mg/kg	105		80-120		
Potassium	11.1 U	11.1	49.0	mg/kg	93		78-110		
Sodium	5.83 U	5.83	98.0	mg/kg	91		87-110		
Strontium	0.0245 J	0.0245	0.490	mg/kg	94		86-110		
Tin	1.59 J	0.314	9.80	mg/kg	94		90-114		
Titanium	0.0696 U	0.0696	0.980	mg/kg	93		80-120		
Zirconium	0.451 U	0.451	4.90	mg/kg	104		80-120		
Batch number: 111725711007	Sample number(s): 6316976-6316988								
Mercury	0.0070 U	0.0070	0.0998	mg/kg	98		88-123		
Batch number: 111726050004A	Sample number(s): 6316990								
Antimony	0.00042 U	0.00042	0.0010	mg/l	106	113*	87-110	6	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	103	104	86-111	1	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	107	90-113	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	105	90-114	4	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	96	94	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	100	100	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	102	90-113	2	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	103	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	106	90-113	2	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	103	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	104	104	89-116	1	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	96	97	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	101	104	90-116	4	20
Batch number: 111726050004B	Sample number(s): 6316990								
Selenium	0.00027 U	0.00027	0.0020	mg/l	105	104	85-114	1	20
Batch number: 111726050004C	Sample number(s): 6316990								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	103	89-115	1	20
Batch number: 111726050004D	Sample number(s): 6316990								
Barium	0.00069 U	0.00069	0.0020	mg/l	104	101	88-113	3	20
Batch number: 111735713002	Sample number(s): 6316990								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	95	93	80-120	2	20
Batch number: 111751026001A	Sample number(s): 6316976-6316988								
Copper	0.0792 U	0.0792	0.396	mg/kg	97		83-110		
Batch number: 11167196901C	Sample number(s): 6316990								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	101	100	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	99	97	90-110	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11167281401A	Sample number(s): 6316990									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	99	101	90-110	2	20
Batch number: 11173281701B	Sample number(s): 6316990									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	104	89	85-115	16	20
Batch number: 11174621203B	Sample number(s): 6316976-6316979,6316981-6316988									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11175102201A	Sample number(s): 6316976-6316979,6316981-6316983,6316988									
17a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11175117101B	Sample number(s): 6316990									
17b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	101	98	90-110	2	20
Batch number: 11175621202B	Sample number(s): 6316976-6316979,6316981-6316988									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11186243201A	Sample number(s): 6316976-6316979,6316981-6316988									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11168020002A	Sample number(s): 6316990									
18b pH by 9040B						100	100	90-110	0	3
Batch number: 11179039401A	Sample number(s): 6316976-6316978,6316981-6316988									
18a pH by 9045C						100		95-105		
Batch number: 11168162401B	Sample number(s): 6316984-6316987									
Moisture Content by 160.3						100		80-120		
Batch number: 11182162401A	Sample number(s): 6316976-6316983,6316988									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111712AA	Sample number(s): 6316976-6316980,6316982-6316984,6316986,6316988 UNSPK: 6316978								
Acetone	100	111	15-210	13	30				
Benzene	107	107	55-143	2	30				
Bromobenzene	104	100	43-139	1	30				
Bromochloromethane	109	107	60-137	0	30				
Bromodichloromethane	103	102	53-136	1	30				
Bromoform	102	103	38-124	3	30				
Bromomethane	79	79	42-168	2	30				
2-Butanone	93	98	37-163	7	30				
n-Butylbenzene	106	102	30-146	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
sec-Butylbenzene	107	102	33-157	3	30				
tert-Butylbenzene	102	100	41-152	0	30				
Carbon Tetrachloride	115	112	45-153	0	30				
Chlorobenzene	109	106	49-135	1	30				
Chloroethane	71	72	39-152	5	30				
2-Chloroethyl Vinyl Ether	85	89	32-139	7	30				
Chloroform	110	108	61-142	0	30				
Chloromethane	95	97	51-163	4	30				
2-Chlorotoluene	103	99	42-146	2	30				
4-Chlorotoluene	107	102	39-145	3	30				
Chlorotrifluoroethene	55*	53*	70-130	5	30				
1,2-Dibromo-3-chloropropane	101	103	30-139	4	30				
Dibromochloromethane	104	103	51-128	1	30				
1,2-Dibromoethane	105	104	54-129	1	30				
Dibromomethane	100	100	57-130	2	30				
1,2-Dichlorobenzene	106	103	36-133	1	30				
1,3-Dichlorobenzene	104	99	34-134	3	30				
1,4-Dichlorobenzene	104	99	35-136	2	30				
Dichlorodifluoromethane	96	94	26-151	1	30				
1,1-Dichloroethane	109	107	63-142	0	30				
1,2-Dichloroethane	113	111	68-131	1	30				
1,1-Dichloroethene	113	112	61-149	1	30				
cis-1,2-Dichloroethene	106	104	60-136	1	30				
trans-1,2-Dichloroethene	109	102	59-142	4	30				
1,2-Dichloropropane	100	101	62-135	3	30				
1,3-Dichloropropane	105	104	58-129	2	30				
2,2-Dichloropropane	110	111	53-147	4	30				
1,1-Dichloropropene	110	110	54-145	2	30				
cis-1,3-Dichloropropene	98	98	51-131	3	30				
trans-1,3-Dichloropropene	99	99	49-129	2	30				
Ethylbenzene	109	105	44-141	2	30				
Freon 113	112	113	56-156	2	30				
Freon 133a	101	99	61-131	3	30				
Hexachlorobutadiene	95	90	10-155	3	30				
2-Hexanone	96	104	32-160	11	30				
Isopropylbenzene	111	107	38-144	1	30				
p-Isopropyltoluene	106	100	29-152	3	30				
Methyl Tertiary Butyl Ether	101	102	55-129	3	30				
4-Methyl-2-pentanone	95	101	46-139	8	30				
Methylene Chloride	108	107	61-141	1	30				
n-Propylbenzene	108	104	39-157	1	30				
Styrene	110	106	35-134	1	30				
1,1,1,2-Tetrachloroethane	107	106	52-130	1	30				
1,1,2,2-Tetrachloroethane	96	97	40-152	3	30				
Tetrachloroethene	115	115	42-149	2	30				
Toluene	108	106	50-146	0	30				
1,2,3-Trichlorobenzene	99	96	10-140	1	30				
1,2,4-Trichlorobenzene	93	89	10-136	2	30				
1,1,1-Trichloroethane	110	107	64-142	0	30				
1,1,2-Trichloroethane	104	104	54-139	2	30				
Trichloroethene	106	104	53-144	1	30				
Trichlorofluoromethane	105	104	47-163	1	30				
1,2,3-Trichloropropane	97	99	45-154	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trimethylbenzene	105	100	37-149	2	30				
1,3,5-Trimethylbenzene	108	104	38-150	2	30				
Vinyl Chloride	92	93	50-154	3	30				
m+p-Xylene	113	109	44-137	2	30				
o-Xylene	107	105	42-137	0	30				
Batch number: E111711AA	Sample number(s): 6316976-6316980,6316982-6316984,6316986,6316988 UNSPK: 6316978								
1,4-Dioxane	83	85	70-130	12	30				
Batch number: 11172SLD026	Sample number(s): 6316976-6316980,6316982-6316988 UNSPK: 6316978								
Acenaphthene	86	79	63-105	8	30				
Acenaphthylene	79	73	67-114	6	30				
Anthracene	88	85	60-122	3	30				
Benzo(a)anthracene	100	99	59-128	1	30				
Benzo(a)pyrene	102	98	45-138	3	30				
Benzo(b)fluoranthene	105	103	43-155	1	30				
Benzo(g,h,i)perylene	110	104	33-141	5	30				
Benzo(k)fluoranthene	105	98	42-144	6	30				
Butylbenzylphthalate	114	112	57-173	1	30				
Di-n-butylphthalate	117	111	65-148	4	30				
Chrysene	100	96	48-134	3	30				
Dibenz(a,h)anthracene	113	107	22-133	5	30				
Diethylphthalate	95	89	70-136	5	30				
Dimethylphthalate	90	84	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	120	113	39-167	6	30				
Fluoranthene	99	94	26-166	4	30				
Fluorene	83	77	66-122	7	30				
Indeno(1,2,3-cd)pyrene	115	108	21-143	5	30				
1-Methylnaphthalene	95	88	72-123	6	30				
2-Methylnaphthalene	84	78	64-103	7	30				
Naphthalene	89	81	61-102	9	30				
N-Nitrosodimethylamine	95	90	48-113	5	30				
Di-n-octylphthalate	111	105	40-192	5	30				
Phenanthrene	89	84	12-165	4	30				
Pyrene	89	87	15-153	1	30				
Batch number: 11174SLE026	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
N-Nitrosodimethylamine	88	97	70-130	9	30				
Batch number: 11180SLA026	Sample number(s): 6316976-6316980,6316982-6316988 UNSPK: 6316978								
Acenaphthene	81	88	75-115	8	30				
Acenaphthylene	84	91	81-110	8	30				
Aniline	69	72	35-95	5	30				
Anthracene	86	90	75-115	5	30				
Benzidine	54	57	35-141	7	30				
Benzo(a)anthracene	85	90	65-122	5	30				
Benzo(a)pyrene	85	89	57-126	5	30				
Benzo(b)fluoranthene	80	94	59-125	17	30				
Benzo(g,h,i)perylene	88	91	59-127	4	30				
Benzo(k)fluoranthene	94	90	56-132	4	30				
Benzoic acid	52	33	10-173	44*	30				
Benzyl alcohol	89	90	67-115	1	30				
4-Bromophenyl-phenylether	88	90	67-129	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	85	82	73-134	3	30				
Di-n-butylphthalate	84	86	67-123	3	30				
Carbazole	85	89	64-120	5	30				
4-Chloro-3-methylphenol	90	94	76-110	4	30				
4-Chloroaniline	57	65	23-95	13	30				
bis(2-Chloroethoxy)methane	85	86	75-104	2	30				
bis(2-Chloroethyl)ether	83	85	60-116	1	30				
bis(2-Chloroisopropyl)ether	81	85	55-142	4	30				
2-Chloronaphthalene	60	94	50-141	44*	30				
2-Chlorophenol	87	90	73-121	3	30				
4-Chlorophenyl-phenylether	85	92	80-109	7	30				
Chrysene	87	91	62-128	5	30				
Dibenz(a,h)anthracene	83	90	65-125	8	30				
Dibenzofuran	84	91	71-112	8	30				
1,2-Dichlorobenzene	79	79	66-108	1	30				
1,3-Dichlorobenzene	76	76	63-109	1	30				
1,4-Dichlorobenzene	77	76	70-100	0	30				
3,3'-Dichlorobenzidine	45	57	16-119	23	30				
2,4-Dichlorophenol	89	94	78-117	5	30				
Diethylphthalate	85	89	66-118	5	30				
2,4-Dimethylphenol	87	90	78-110	4	30				
3,5-Dimethylphenol	86	90	70-130	4	30				
Dimethylphthalate	84	90	64-118	7	30				
4,6-Dinitro-2-methylphenol	70	53	24-116	27	30				
2,4-Dinitrophenol	50	30	20-143	49*	30				
2,4-Dinitrotoluene	86	93	73-113	8	30				
2,6-Dinitrotoluene	86	91	69-123	6	30				
1,2-Diphenylhydrazine	88	92	71-129	4	30				
bis(2-Ethylhexyl)phthalate	81	84	63-122	5	30				
Fluoranthene	87	91	73-112	5	30				
Fluorene	84	90	77-111	8	30				
Hexachlorobenzene	88	90	77-114	2	30				
Hexachlorobutadiene	77	78	62-120	1	30				
Hexachlorocyclopentadiene	78	85	10-153	9	30				
Hexachloroethane	73	75	57-109	3	30				
Indeno(1,2,3-cd)pyrene	83	88	61-126	6	30				
Isophorone	86	87	73-102	2	30				
1-Methylnaphthalene	85	88	73-112	3	30				
2-Methylnaphthalene	78	81	76-114	4	30				
2-Methylphenol	87	90	75-111	4	30				
4-Methylphenol	94	100	71-111	6	30				
Naphthalene	80	82	72-116	2	30				
2-Nitroaniline	87	94	67-125	7	30				
3-Nitroaniline	84	92	59-122	9	30				
4-Nitroaniline	67	71	52-112	5	30				
Nitrobenzene	84	84	72-106	0	30				
2-Nitrophenol	82	85	74-115	4	30				
4-Nitrophenol	81	86	54-113	6	30				
N-Nitroso-di-n-propylamine	83	87	60-116	5	30				
N-Nitrosodimethylamine	81	78	47-116	3	30				
N-Nitrosodiphenylamine	87	91	86-145	4	30				
Di-n-octylphthalate	85	85	56-126	0	30				
Pentachlorophenol	72	73	28-127	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	85	88	65-125	2	30				
Phenol	83	88	58-126	6	30				
Pyrene	91	96	74-126	5	30				
1,2,4-Trichlorobenzene	82	83	72-115	1	30				
2,4,5-Trichlorophenol	86	93	78-109	7	30				
2,4,6-Trichlorophenol	84	93	77-115	10	30				
Batch number: 11168A34A	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
9a TPH by EPA 8015B Gas C5-C12	69	71	39-118	10	30				
Batch number: 111710008A	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
4-Amino-2,6-Dinitrotoluene	113	103	80-127	9	50				
2-Amino-4,6-Dinitrotoluene	112	102	80-137	9	50				
1,3-Dinitrobenzene	117	109	38-166	8	50				
2,4-Dinitrotoluene	108	99	80-131	8	50				
2,6-Dinitrotoluene	109	102	80-127	6	50				
HMX	98	88	63-128	11	50				
Nitrobenzene	111	108	80-125	3	50				
Nitroglycerin	96	90	80-120	6	50				
2-Nitrotoluene	109	103	80-122	6	50				
3-Nitrotoluene	117	110	72-119	6	50				
4-Nitrotoluene	109	103	80-125	5	50				
PETN	107	97	80-121	10	50				
RDX	93	84	75-129	10	50				
Tetryl	73	72	55-174	2	50				
1,3,5-Trinitrobenzene	91	94	82-126	4	50				
2,4,6-Trinitrotoluene	112	105	82-130	7	50				
Batch number: 111720004A	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
25a Formaldehyde 8315A	94	97	80-120	4	50				
Batch number: 111730021A	Sample number(s): 6316982,6316985 UNSPK: 6316982								
6a Perchlorate EPA 6850	102	105	80-120	3	20				
Batch number: 111730018A	Sample number(s): 6316976-6316980,6316982-6316988 UNSPK: 6316978								
PCB-1016	98	82	29-146	17	50				
PCB-1260	120	103	39-149	16	50				
Batch number: 111720038A	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
EFH (C12-C14)	96	94	49-123	4	20				
EFH (C15-C20)	123	105	49-123	16	20				
EFH (C21-C30)	130*	103	49-123	24*	20				
EFH (C30 - C40)	137*	118	49-123	15	20				
EFH (C8-C11)	94	89	49-123	7	20				
Batch number: 111680006A	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
Diethylene glycol	36*	33*	59-109	8	20				
Ethylene glycol	73	74	63-107	2	20				
Propylene glycol	81	84	63-107	4	20				
Batch number: 111680012A	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
Ethanol	81	84	48-130	4	20				
Isopropanol	82	87	12-149	5	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methanol	79	81	43-138	3	20				
Batch number: 111680013A	Sample number(s): 6316990 UNSPK: P316736								
Ethanol	100	100	62-145	0	20				
Isopropanol	100	96	73-131	4	20				
Methanol	104	100	52-159	4	20				
Batch number: 111740021A	Sample number(s): 6316976-6316980,6316982-6316983,6316988 UNSPK: 6316978								
m-Terphenyl	80	77	75-125	3	20				
o-Terphenyl	95	88	75-125	7	20				
p-Terphenyl	91	88	75-125	3	20				
Batch number: 111721026003A	Sample number(s): 6316976-6316988 UNSPK: 6316978 BKG: 6316978								
Antimony	41*	51*	75-125	16	20	0.0991 J	0.0846 J	16 (1)	20
Arsenic	311*	295*	75-125	4	20	5.39	4.75	13	20
Beryllium	160*	141*	75-125	8	20	0.854	0.696	20	20
Cadmium	148*	146*	75-125	3	20	0.120	0.120	0 (1)	20
Chromium	188*	128*	75-125	15	20	26.1	22.5	15	20
Cobalt	170*	148*	75-125	15	20	4.81	8.70	58*	20
Lead	291*	212*	75-125	17	20	7.06	6.76	4	20
Nickel	272*	183*	75-125	23*	20	17.9	17.3	3	20
Silver	148*	140*	75-125	7	20	0.0751 J	0.0428 J	55* (1)	20
Thallium	166*	141*	75-125	12	20	0.326	0.256	24* (1)	20
Vanadium	311 (2)	220 (2)	75-125	13	20	44.4	38.8	13	20
Zinc	361 (2)	247 (2)	75-125	15	20	50.3	44.1	13	20
Batch number: 111721026003B	Sample number(s): 6316976-6316988 UNSPK: 6316978 BKG: 6316978								
Selenium	86	93	75-125	5	20	0.0574 U	0.0569 U	0 (1)	20
Batch number: 111721026003C	Sample number(s): 6316976-6316988 UNSPK: 6316978 BKG: 6316978								
Molybdenum	140*	139*	75-125	3	20	0.234	0.200	16 (1)	20
Batch number: 111721026003D	Sample number(s): 6316976-6316988 UNSPK: 6316978 BKG: 6316978								
Barium	559 (2)	204 (2)	75-125	25*	20	103	89.0	15	20
Batch number: 111725708004	Sample number(s): 6316976-6316988 UNSPK: 6316978 BKG: 6316978								
Aluminum	915 (2)	1212 (2)	75-125	2	20	26,200	24,600	6	20
Boron	96	97	84-115	3	20	7.63	6.72	13 (1)	20
Calcium	1476 (2)	-1992 (2)	75-125	73*	20	19,300	26,400	31*	20
Iron	374 (2)	1119 (2)	75-125	3	20	25,500	24,700	3	20
Lithium	101	103	82-114	2	20	22.4	20.9	7	20
Magnesium	114 (2)	43 (2)	75-125	3	20	5,180	4,940	5	20
Manganese	94	346*	75-125	45*	20	156	139	11	20
Phosphorus	123	131*	75-125	1	20	152	147	3	20
Potassium	139*	168*	75-125	6	20	2,120	2,010	5	20
Sodium	91	93	75-125	1	20	294	286	3 (1)	20
Strontium	98	93	75-115	6	20	31.6	33.5	6	20
Tin	84	87	80-110	1	20	2.50 J	2.35 J	6 (1)	20
Titanium	162 (2)	201 (2)	75-125	3	20	1,020	954	7	20
Zirconium	96	98	75-125	2	20	3.30 J	3.51 J	6 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111725711007	Sample number(s): 6316976-6316988 UNSPK: 6316978 BKG: 6316978								
Mercury	88	82	65-135	6	20	0.0187 J	0.0073 J	88* (1)	20
Batch number: 111751026001A	Sample number(s): 6316976-6316988 UNSPK: 6316978 BKG: 6316978								
Copper	67*	77	75-125	4	20	14.8	11.8	23*	20
Batch number: 11167281401A	Sample number(s): 6316990 UNSPK: P316903 BKG: P316903								
3b Cr VI by EPA 7199	97		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 11174621203B	Sample number(s): 6316976-6316979,6316981-6316988 UNSPK: 6316978 BKG: 6316978								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11175102201A	Sample number(s): 6316976-6316979,6316981-6316983,6316988 UNSPK: 6316978 BKG: 6316978								
17a Cyanide by 9012B	100		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11175621202B	Sample number(s): 6316976-6316979,6316981-6316988 UNSPK: 6316978 BKG: 6316978								
11a Anions by 300.0 - Fluoride	70*		80-120			5.3	5.4	1	20
11a Anions by 300.0 - Nitrate	93		80-120			1.1 J	1.3 J	17 (1)	20
Batch number: 11186243201A	Sample number(s): 6316976-6316979,6316981-6316988 UNSPK: 6316978 BKG: 6316978								
3a Cr VI by EPA 7199	97		75-125			0.20 U	0.31 J	200* (1)	20
Batch number: 11179039401A	Sample number(s): 6316976-6316978,6316981-6316988 BKG: 6316978								
18a pH by 9045C						8.59	8.59	0	3
Batch number: 11168162401B	Sample number(s): 6316984-6316987 BKG: 6316985								
Moisture Content by 160.3						10.3	9.9	5	20
Batch number: 11182162401A	Sample number(s): 6316976-6316983,6316988 BKG: 6316978								
28a Moisture Content by 160.3						13.0	12.2	6	20
Moisture Content by 160.3						13.0	12.2	6	20
Moisture Content by 160.3						13.0	12.2	6	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111712AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6316976	103	100	102	96
6316977	102	102	101	95
6316978	103	100	101	95
6316979	103	102	104	104
6316980	103	103	104	104
6316982	105	106	100	98

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

6316983	103	101	102	96
6316984	105	106	99	96
6316986	106	107	100	97
6316988	105	106	98	97
Blank	103	102	100	95
LCS	102	103	104	103
MS	103	102	104	104
MSD	103	103	104	104
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111671AA

	Toluene-d8
6316989	102
6316990	102
Blank	101
LCS	101
LCSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111711AA

	Toluene-d8
6316976	97
6316977	97
6316978	97
6316979	97
6316980	97
6316982	97
6316983	97
6316984	97
6316986	97
6316988	97
Blank	98
LCS	99
LCSD	99
MS	97
MSD	97
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6316989	107	104	100	97
6316990	106	103	99	96
Blank	103	103	101	97
LCS	106	101	101	100
LCSD	105	104	101	99
Limits:	86-118	80-120	88-110	86-115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11171WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6316990	66	42	90	95	93	87
Blank	69	48	92	93	89	84
LCS	73	47	94	99	99	91
LCSD	74	50	94	99	97	89
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 15b NDMA by 1625C
Batch number: 11171WAG026

	N-Nitrosodimethylamine-d6
6316990	118
Blank	108
LCS	103
LCSD	98
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11172SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6316976	92	73	96
6316977	83	65	92
6316978	89	73	93
6316979	107	86	95
6316980	102	79	93
6316982	93	75	94
6316983	94	77	79
6316984	95	75	90
6316985	103	80	90
6316986	97	75	87
6316987	91	72	87
6316988	98	78	93
Blank	100	81	102
LCS	94	76	90
MS	107	86	95
MSD	102	79	93
Limits:	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11172WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6316990	113	84	103
Blank	103	86	106
LCS	114	93	103
LCSD	106	87	99
Limits:	40-130	45-130	45-135

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

Analysis Name: 15a NDMA by 1625C
Batch number: 11174SLE026

	N-Nitrosodimethylamine-d6
6316976	88
6316977	85
6316978	75
6316979	88
6316980	84
6316982	78
6316983	75
6316988	76
Blank	99
LCS	101
MS	88
MSD	84
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11180SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6316976	91	88	87	81	82	87
6316977	93	91	84	79	75	87
6316978	91	89	86	83	81	81
6316979	92	89	82	83	81	82
6316980	95	91	88	83	85	86
6316982	90	87	83	81	80	87
6316983	92	89	86	83	81	83
6316984	87	85	79	74	70	82
6316985	96	93	83	84	85	90
6316986	85	83	75	75	74	84
6316987	89	86	79	80	80	87
6316988	90	87	78	77	75	85
Blank	95	95	90	86	86	85
LCS	96	93	89	86	86	87
MS	92	89	82	83	81	82
MSD	95	91	88	83	85	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11168A34A

	Trifluorotoluene-F
6316976	70
6316977	71
6316978	69
6316979	74
6316980	73
6316982	70
6316983	70
6316988	70
Blank	83
LCS	81

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

MS	74
MSD	73

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11174A20A

Trifluorotoluene-F

6316989	89
6316990	91
Blank	90
LCS	123
LCSD	124

Limits: 63-135

Analysis Name: 25b Formaldehyde 8315A
Batch number: 111670003A

Butyraldehyde

6316990	117
Blank	97
LCS	93
LCSD	97

Limits: 45-145

Analysis Name: 16b Energetics by 8330A
Batch number: 111670031A

2-Nitro-m-xylene

6316990	96
Blank	109
LCS	106
LCSD	106

Limits: 50-134

Analysis Name: 16a Energetics by 8330A
Batch number: 111710008A

2-Nitro-m-xylene

6316976	115
6316977	112
6316978	107
6316979	129
6316980	113
6316982	106
6316983	113
6316988	95
Blank	125
LCS	127
LCSD	134
MS	129
MSD	113

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

Limits: 80-146

Analysis Name: 25a Formaldehyde 8315A
Batch number: 111720004A

	Butyraldehyde
6316976	85
6316977	87
6316978	83
6316979	79
6316980	85
6316982	89
6316983	85
6316988	82
Blank	99
LCS	91
MS	79
MSD	85
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 111720013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6316990	111	94
Blank	107	103
LCS	101	89
LCSD	110	80
Limits:	30-150	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111730018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6316976	106	111
6316977	97	105
6316978	93	108
6316979	103	113
6316980	100	108
6316982	90	103
6316983	99	76
6316984	89	87
6316985	89	87
6316986	81	88
6316987	89	99
6316988	96	106
Blank	101	108
LCS	106	116
LCSD	100	116
MS	103	113
MSD	100	108
Limits:	53-139	45-120

Analysis Name: 20b Terphenyls by 8015B

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

Batch number: 111670036A
n-Triacontane-d62

6316990	88
Blank	148
LCS	95
LCSD	116
Limits:	50-150

Analysis Name: 21a Glycols by 8015B
Batch number: 111680006A
Tetramethylene glycol

6316976	92
6316977	97
6316978	94
6316979	93
6316980	96
6316982	93
6316983	94
6316988	88
Blank	83
LCS	92
MS	93
MSD	96
Limits:	29-137

Analysis Name: 19a Alcohols by 8015B
Batch number: 111680012A
Acetone

6316976	80
6316977	80
6316978	78
6316979	73
6316980	76
6316982	75
6316983	78
6316988	78
Blank	93
LCS	92
MS	73
MSD	76
Limits:	42-138

Analysis Name: 19b Alcohols by 8015B
Batch number: 111680013A
Acetone

6316990	100
Blank	103
LCS	101
MS	101
MSD	101

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

Limits: 54-147

Analysis Name: 21b Glycols by 8015B
Batch number: 111710001A

	Tetramethylene glycol
6316990	97
Blank	91
LCS	99
LCSD	100

Limits: 77-119

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 111720025A

	Chlorobenzene	Orthoterphenyl
6316990	83	89
Blank	84	90
LCS	111	99
LCSD	105	91

Limits: 28-152 52-131

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 111720038A

	Chlorobenzene	Orthoterphenyl
6316976	98	104
6316977	90	99
6316978	86	91
6316979	81	96
6316980	81	98
6316982	85	97
6316983	89	98
6316988	60	88
Blank	82	92
LCS	88	98
MS	81	96
MSD	81	98

Limits: 37-125 47-145

Analysis Name: 20a Terphenyls by 8015B
Batch number: 111740021A

	n-Triacontane-d62
6316976	89
6316977	91
6316978	87
6316979	96
6316980	92
6316982	95
6316983	107
6316988	93
Blank	96

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251717
Reported: 07/12/11 at 08:22 AM

Surrogate Quality Control

LCS	95
MS	96
MSD	92
Limits:	50-150

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#125177 Sample#6316976-90

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260/SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-020-SA5DN-SB-4.0	06.15.11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-020-SA5DN-SB-3.5-4.5	06.15.11	1045	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-029-SA5DN-SB-4.5	06.15.11	0855	SOIL	NONE	5-Encores										X	X	X										
SL-029-SA5DN-SB-4.0-5.0	06.15.11	0900	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-030-SA5DN-SB-4.5MS	06.15.11	0950	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-030-SA5DN-SB-4.0-5.0MS	06.15.11	0955	SOIL	NONE	12-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-031-SA5DN-SB-4.5	06.15.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-031-SA5DN-SB-4.0-5.0	06.15.11	1125	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-034-SA5DN-SB-4.5	06.15.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-034-SA5DN-SB-4.0-5.0	06.15.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-055-SA5DN-SB-4.5	06.15.11	1425	SOIL	NONE	4-Encores										X	X											
SL-055-SA5DN-SB-4.0-5.0	06.15.11	1430	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-055-SA5DN-SB-9.0-10.0	06.15.11	1435	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
SL-056-SA5DN-SB-4.5	06.15.11	1515	SOIL	NONE	4-Encores										X	X											
SL-056-SA5DN-SB-4.0-5.0	06.15.11	1520	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-056-SA5DN-SB-9.0-10.0	06.15.11	1525	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
DUP15-SA5DN-QC-061511	06.15.11	1005	SOIL	NONE	5-Encores																						
DUP15-SA5DN-QC-061511	06.15.11	1005	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-061511	06.15.11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (Signature) | Date/Time: 06/15/2011 / 1700 | Received for Laboratory by: (Signature)

Received by: (Signature) | Date/Time: 6/16/11 1200 | Airbill No.(s): 8754 3349 1835, 5245,5234,5256

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1251717 sample# 6316976-90

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SM7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	10-1 L Ambers			X	X	X								X			X	X		X			
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	1-500mL plastic		X				X	X	X														
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	HNO3	1-500mL poly	X																					
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	1-250mL glass															X							
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NaOH	1-500mL poly																		X				
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	4-40mL Vials														X						X		
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	HCL	11-40mL Vials										X	X	X									X	

Relinquished by: (*Signature*) | **Date/Time** 06/15/2011 / 1700 | **Received for Laboratory by: (*Signature*)** | **Laboratory:** Lancaster Laboratories, Inc.

Received by: (*Signature*) | **Date/Time** Glenn for me | **Airbill No.(s)** 8754 3349 1835, 5245,5234,5256

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Friday, June 17, 2011 6:47 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 6/15/11: Dup15- missing VOCs

Nicole

Thanks! I was supposed to mark those boxes :)

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Friday, June 17, 2011 3:44 PM
To: Hartman, Pamela
Subject: FW: SSFL COC 6/15/11: Dup15- missing VOCs

Hi Pam,
I noticed on this COC that none of the volatile analyses are checked for DUP15-SA5DN-QC-061511, but 5 encores were submitted. We entered it for VOCs, 1,4-Dioxane, and TPH-GRO.

Thanks,
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, June 15, 2011 7:37 PM
To: Zakowski, Cherie; SA Env Entry; Nicole Maljovec; 'Laura Rainey'; Burgesser, Todd
Subject: SSFL COC 6/15/11

COC for Wednesday 6/15/11

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/16/2011
Group Number: 1251718
SDG: DX103
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-020-SA5DN-SB-3.5-4.5 Soil	6316991
SL-029-SA5DN-SB-4.0-5.0 Soil	6316992
SL-030-SA5DN-SB-4.0-5.0 Soil	6316993
SL-030-SA5DN-SB-4.0-5.0MS Soil	6316994
SL-030-SA5DN-SB-4.0-5.0MSD Soil	6316995
SL-031-SA5DN-SB-4.0-5.0 Soil	6316996
SL-034-SA5DN-SB-4.0-5.0 Soil	6316997
SL-055-SA5DN-SB-4.0-5.0 Soil	6316998
SL-055-SA5DN-SB-9.0-10.0 Soil	6316999
SL-056-SA5DN-SB-4.0-5.0 Soil	6317000
SL-056-SA5DN-SB-9.0-10.0 Soil	6317001
DUP15-SA5DN-QC-061511 Soil	6317002
EB18-SA5DN-SB-061511 Water	6317003

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316991
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-1 SDG#: DX103-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316991
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-1 SDG#: DX103-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0328 JQ	0.0276	1.09	1
11031	12378-PeCDD	40321-76-4	0.0555 JBQ	0.0270	5.47	1
11031	123478-HxCDD	39227-28-6	0.0443 JQ	0.0272	5.47	1
11031	123678-HxCDD	57653-85-7	0.0430 JBQ	0.0276	5.47	1
11031	123789-HxCDD	19408-74-3	0.0659 JBQ	0.0271	5.47	1
11031	1234678-HpCDD	35822-46-9	0.525 JB	0.0399	5.47	1
11031	OCDD	3268-87-9	2.12 JB	0.0297	10.9	1
11031	2378-TCDF	51207-31-9	0.0243 U	0.0243	1.09	1
11031	12378-PeCDF	57117-41-6	0.0370 JBQ	0.0132	5.47	1
11031	23478-PeCDF	57117-31-4	0.0766 JB	0.0138	5.47	1
11031	123478-HxCDF	70648-26-9	0.0822 JBQ	0.0164	5.47	1
11031	123678-HxCDF	57117-44-9	0.0299 JBQ	0.0138	5.47	1
11031	123789-HxCDF	72918-21-9	0.0617 JQ	0.0189	5.47	1
11031	234678-HxCDF	60851-34-5	0.0761 JBQ	0.0148	5.47	1
11031	1234678-HpCDF	67562-39-4	0.183 JBQ	0.0132	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0437 JB	0.0246	5.47	1
11031	OCDF	39001-02-0	0.253 JBQ	0.0403	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316991
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-1 SDG#: DX103-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA5DN-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DN-SB-3.5-4.5

LLI Sample # SW 6316991
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:45

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-1 SDG#: DX103-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/01/2011 20:34	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316992
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-2 SDG#: DX103-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316992
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-2 SDG#: DX103-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0215 U	0.0215	1.08	1
11031	12378-PeCDD	40321-76-4	0.0239 U	0.0239	5.42	1
11031	123478-HxCDD	39227-28-6	0.0292 J	0.0219	5.42	1
11031	123678-HxCDD	57653-85-7	0.0406 JBQ	0.0212	5.42	1
11031	123789-HxCDD	19408-74-3	0.0466 JBQ	0.0220	5.42	1
11031	1234678-HpCDD	35822-46-9	0.488 JBQ	0.0302	5.42	1
11031	OCDD	3268-87-9	1.43 JB	0.0277	10.8	1
11031	2378-TCDF	51207-31-9	0.0193 U	0.0193	1.08	1
11031	12378-PeCDF	57117-41-6	0.0181 JBQ	0.0108	5.42	1
11031	23478-PeCDF	57117-31-4	0.0727 JBQ	0.0112	5.42	1
11031	123478-HxCDF	70648-26-9	0.0532 JBQ	0.0138	5.42	1
11031	123678-HxCDF	57117-44-9	0.0359 JBQ	0.0114	5.42	1
11031	123789-HxCDF	72918-21-9	0.0440 JQ	0.0180	5.42	1
11031	234678-HxCDF	60851-34-5	0.0735 JBQ	0.0134	5.42	1
11031	1234678-HpCDF	67562-39-4	0.159 JB	0.00929	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0584 JBQ	0.0187	5.42	1
11031	OCDF	39001-02-0	0.253 JBQ	0.0356	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	84	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316992
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-2 SDG#: DX103-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-029-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316992
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:00

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-2 SDG#: DX103-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/01/2011 21:30	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316993
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316993
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0237 U	0.0237	1.13	1
11031	12378-PeCDD	40321-76-4	0.0239 U	0.0239	5.65	1
11031	123478-HxCDD	39227-28-6	0.0294 JQ	0.0209	5.65	1
11031	123678-HxCDD	57653-85-7	0.0271 JBQ	0.0205	5.65	1
11031	123789-HxCDD	19408-74-3	0.0422 JBQ	0.0203	5.65	1
11031	1234678-HpCDD	35822-46-9	0.388 JB	0.0315	5.65	1
11031	OCDD	3268-87-9	0.985 JB	0.0262	11.3	1
11031	2378-TCDF	51207-31-9	0.0223 U	0.0223	1.13	1
11031	12378-PeCDF	57117-41-6	0.0186 JBQ	0.0121	5.65	1
11031	23478-PeCDF	57117-31-4	0.0653 JB	0.0133	5.65	1
11031	123478-HxCDF	70648-26-9	0.0498 JBQ	0.0170	5.65	1
11031	123678-HxCDF	57117-44-9	0.0468 JBQ	0.0133	5.65	1
11031	123789-HxCDF	72918-21-9	0.0888 J	0.0207	5.65	1
11031	234678-HxCDF	60851-34-5	0.132 JB	0.0141	5.65	1
11031	1234678-HpCDF	67562-39-4	0.195 JBQ	0.00989	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0475 JBQ	0.0239	5.65	1
11031	OCDF	39001-02-0	0.255 JBQ	0.0447	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	44	17 - 157
13C12-1278-TCDD (CRS)	85	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-030-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316993
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316993
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/01/2011 22:27	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316994
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316994
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.4		0.0332	1.15	1
11031	12378-PeCDD	40321-76-4	114	B	0.0541	5.74	1
11031	123478-HxCDD	39227-28-6	111		0.0428	5.74	1
11031	123678-HxCDD	57653-85-7	105	B	0.0434	5.74	1
11031	123789-HxCDD	19408-74-3	108	B	0.0428	5.74	1
11031	1234678-HpCDD	35822-46-9	106	B	0.0528	5.74	1
11031	OCDD	3268-87-9	210	B	0.0549	11.5	1
11031	2378-TCDF	51207-31-9	22.7		0.0423	1.15	1
11031	12378-PeCDF	57117-41-6	108	B	0.0243	5.74	1
11031	23478-PeCDF	57117-31-4	105	B	0.0256	5.74	1
11031	123478-HxCDF	70648-26-9	103	B	0.0574	5.74	1
11031	123678-HxCDF	57117-44-9	103	B	0.0461	5.74	1
11031	123789-HxCDF	72918-21-9	102		0.0638	5.74	1
11031	234678-HxCDF	60851-34-5	105	B	0.0549	5.74	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0383	5.74	1
11031	1234789-HpCDF	55673-89-7	106	B	0.0808	5.74	1
11031	OCDF	39001-02-0	207	B	0.0693	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	54	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5DN-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316994
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316994
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/01/2011 23:24	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316995
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316995
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.2		0.0429	1.15	1
11031	12378-PeCDD	40321-76-4	115	B	0.0706	5.74	1
11031	123478-HxCDD	39227-28-6	112		0.0518	5.74	1
11031	123678-HxCDD	57653-85-7	109	B	0.0540	5.74	1
11031	123789-HxCDD	19408-74-3	106	B	0.0501	5.74	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0684	5.74	1
11031	OCDD	3268-87-9	207	B	0.0687	11.5	1
11031	2378-TCDF	51207-31-9	22.6		0.0553	1.15	1
11031	12378-PeCDF	57117-41-6	108	B	0.0364	5.74	1
11031	23478-PeCDF	57117-31-4	105	B	0.0377	5.74	1
11031	123478-HxCDF	70648-26-9	103	B	0.0867	5.74	1
11031	123678-HxCDF	57117-44-9	102	B	0.0718	5.74	1
11031	123789-HxCDF	72918-21-9	102		0.0967	5.74	1
11031	234678-HxCDF	60851-34-5	105	B	0.0801	5.74	1
11031	1234678-HpCDF	67562-39-4	101	B	0.0451	5.74	1
11031	1234789-HpCDF	55673-89-7	104	B	0.0941	5.74	1
11031	OCDF	39001-02-0	207	B	0.0783	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	58	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	76	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA5DN-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316995
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA5DN-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316995
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 09:55

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-3 SDG#: DX103-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 00:20	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Analysis Report

Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316996
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-4 SDG#: DX103-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316996
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-4 SDG#: DX103-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0240	U	0.0240	1.13	1
11031	12378-PeCDD	40321-76-4	0.106	JBQ	0.0265	5.65	1
11031	123478-HxCDD	39227-28-6	0.0876	JQ	0.0200	5.65	1
11031	123678-HxCDD	57653-85-7	0.113	JBQ	0.0201	5.65	1
11031	123789-HxCDD	19408-74-3	0.149	JB	0.0194	5.65	1
11031	1234678-HpCDD	35822-46-9	0.547	JB	0.0267	5.65	1
11031	OCDD	3268-87-9	2.80	JB	0.0205	11.3	1
11031	2378-TCDF	51207-31-9	0.0201	U	0.0201	1.13	1
11031	12378-PeCDF	57117-41-6	0.0591	JB	0.0112	5.65	1
11031	23478-PeCDF	57117-31-4	0.159	JB	0.0126	5.65	1
11031	123478-HxCDF	70648-26-9	0.148	JB	0.0298	5.65	1
11031	123678-HxCDF	57117-44-9	0.148	JB	0.0214	5.65	1
11031	123789-HxCDF	72918-21-9	0.130	JQ	0.0195	5.65	1
11031	234678-HxCDF	60851-34-5	0.166	JB	0.0139	5.65	1
11031	1234678-HpCDF	67562-39-4	0.284	JB	0.0139	5.65	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0204	5.65	1
11031	OCDF	39001-02-0	0.536	JB	0.0351	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-031-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316996
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-4 SDG#: DX103-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-031-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-031-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316996
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 11:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-4 SDG#: DX103-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 01:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Analysis Report

Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316997
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-5 SDG#: DX103-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316997
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-5 SDG#: DX103-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0259 U	0.0259	1.10	1
11031	12378-PeCDD	40321-76-4	0.0311 JBQ	0.0239	5.52	1
11031	123478-HxCDD	39227-28-6	0.0324 JQ	0.0215	5.52	1
11031	123678-HxCDD	57653-85-7	0.0442 JB	0.0219	5.52	1
11031	123789-HxCDD	19408-74-3	0.0781 JB	0.0209	5.52	1
11031	1234678-HpCDD	35822-46-9	0.468 JB	0.0310	5.52	1
11031	OCDD	3268-87-9	1.21 JBQ	0.0267	11.0	1
11031	2378-TCDF	51207-31-9	0.0254 U	0.0254	1.10	1
11031	12378-PeCDF	57117-41-6	0.0455 JBQ	0.0124	5.52	1
11031	23478-PeCDF	57117-31-4	0.0751 JB	0.0130	5.52	1
11031	123478-HxCDF	70648-26-9	0.0690 JBQ	0.0165	5.52	1
11031	123678-HxCDF	57117-44-9	0.0489 JBQ	0.0140	5.52	1
11031	123789-HxCDF	72918-21-9	0.0472 JQ	0.0181	5.52	1
11031	234678-HxCDF	60851-34-5	0.133 JBQ	0.0145	5.52	1
11031	1234678-HpCDF	67562-39-4	0.243 JB	0.00875	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0713 JBQ	0.0192	5.52	1
11031	OCDF	39001-02-0	0.311 JBQ	0.0430	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	48	17 - 157
13C12-1278-TCDD (CRS)	82	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316997
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-5 SDG#: DX103-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316997
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 12:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-5 SDG#: DX103-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 02:13	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

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Analysis Report

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316998
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-6 SDG#: DX103-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316998
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-6 SDG#: DX103-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0518 JQ	0.0250	1.16	1
11031	12378-PeCDD	40321-76-4	0.150 JB	0.0274	5.82	1
11031	123478-HxCDD	39227-28-6	0.0682 J	0.0220	5.82	1
11031	123678-HxCDD	57653-85-7	0.0871 JBQ	0.0227	5.82	1
11031	123789-HxCDD	19408-74-3	0.121 JB	0.0223	5.82	1
11031	1234678-HpCDD	35822-46-9	0.662 JB	0.0321	5.82	1
11031	OCDD	3268-87-9	4.66 JB	0.0268	11.6	1
11031	2378-TCDF	51207-31-9	0.0407 JQ	0.0234	1.16	1
11031	12378-PeCDF	57117-41-6	0.137 JB	0.0132	5.82	1
11031	23478-PeCDF	57117-31-4	0.167 JBQ	0.0143	5.82	1
11031	123478-HxCDF	70648-26-9	0.145 JB	0.0188	5.82	1
11031	123678-HxCDF	57117-44-9	0.110 JB	0.0143	5.82	1
11031	123789-HxCDF	72918-21-9	0.120 J	0.0205	5.82	1
11031	234678-HxCDF	60851-34-5	0.146 JB	0.0166	5.82	1
11031	1234678-HpCDF	67562-39-4	0.186 JB	0.00797	5.82	1
11031	1234789-HpCDF	55673-89-7	0.0692 JBQ	0.0189	5.82	1
11031	OCDF	39001-02-0	0.300 JB	0.0443	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	99	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316998
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-6 SDG#: DX103-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-4.0-5.0

LLI Sample # SW 6316998
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:30

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-6 SDG#: DX103-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 03:10	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316999
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-7 SDG#: DX103-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316999
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-7 SDG#: DX103-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0994	JQ	0.0281	1.11	1
11031	12378-PeCDD	40321-76-4	0.330	JB	0.0407	5.57	1
11031	123478-HxCDD	39227-28-6	0.165	JQ	0.0537	5.57	1
11031	123678-HxCDD	57653-85-7	0.252	JB	0.0534	5.57	1
11031	123789-HxCDD	19408-74-3	0.244	JBQ	0.0559	5.57	1
11031	1234678-HpCDD	35822-46-9	1.32	JB	0.0698	5.57	1
11031	OCDD	3268-87-9	11.4	B	0.0556	11.1	1
11031	2378-TCDF	51207-31-9	0.0549	JQ	0.0265	1.11	1
11031	12378-PeCDF	57117-41-6	0.335	JB	0.0174	5.57	1
11031	23478-PeCDF	57117-31-4	0.294	JBQ	0.0172	5.57	1
11031	123478-HxCDF	70648-26-9	0.261	JB	0.0337	5.57	1
11031	123678-HxCDF	57117-44-9	0.208	JB	0.0295	5.57	1
11031	123789-HxCDF	72918-21-9	0.173	J	0.0391	5.57	1
11031	234678-HxCDF	60851-34-5	0.208	JBQ	0.0321	5.57	1
11031	1234678-HpCDF	67562-39-4	0.371	JB	0.0280	5.57	1
11031	1234789-HpCDF	55673-89-7	0.145	JB	0.0466	5.57	1
11031	OCDF	39001-02-0	0.495	JB	0.0577	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	66	17 - 157
13C12-1278-TCDD (CRS)	87	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316999
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-7 SDG#: DX103-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-055-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA5DN-SB-9.0-10.0

LLI Sample # SW 6316999
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 14:35

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-7 SDG#: DX103-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 07:09	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6317000
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-8 SDG#: DX103-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6317000
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-8 SDG#: DX103-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0908	J	0.0257	1.16	1
11031	12378-PeCDD	40321-76-4	0.373	JB	0.0343	5.82	1
11031	123478-HxCDD	39227-28-6	0.157	JQ	0.0342	5.82	1
11031	123678-HxCDD	57653-85-7	0.189	JB	0.0341	5.82	1
11031	123789-HxCDD	19408-74-3	0.204	JB	0.0330	5.82	1
11031	1234678-HpCDD	35822-46-9	0.614	JB	0.0449	5.82	1
11031	OCDD	3268-87-9	1.51	JB	0.0284	11.6	1
11031	2378-TCDF	51207-31-9	0.0258	U	0.0258	1.16	1
11031	12378-PeCDF	57117-41-6	0.340	JB	0.0134	5.82	1
11031	23478-PeCDF	57117-31-4	0.311	JB	0.0135	5.82	1
11031	123478-HxCDF	70648-26-9	0.224	JBQ	0.0219	5.82	1
11031	123678-HxCDF	57117-44-9	0.170	JB	0.0170	5.82	1
11031	123789-HxCDF	72918-21-9	0.193	JQ	0.0251	5.82	1
11031	234678-HxCDF	60851-34-5	0.222	JBQ	0.0194	5.82	1
11031	1234678-HpCDF	67562-39-4	0.275	JB	0.0147	5.82	1
11031	1234789-HpCDF	55673-89-7	0.137	JB	0.0322	5.82	1
11031	OCDF	39001-02-0	0.391	JB	0.0443	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	49	17 - 157
13C12-1278-TCDD (CRS)	81	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-056-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6317000
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-8 SDG#: DX103-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-4.0-5.0

LLI Sample # SW 6317000
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:20

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-8 SDG#: DX103-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 08:06	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6317001
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-9 SDG#: DX103-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6317001
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-9 SDG#: DX103-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0380	JQ	0.0233	1.13	1
11031	12378-PeCDD	40321-76-4	0.186	JBQ	0.0287	5.66	1
11031	123478-HxCDD	39227-28-6	0.102	JQ	0.0283	5.66	1
11031	123678-HxCDD	57653-85-7	0.140	JBQ	0.0285	5.66	1
11031	123789-HxCDD	19408-74-3	0.131	JB	0.0277	5.66	1
11031	1234678-HpCDD	35822-46-9	0.673	JB	0.0412	5.66	1
11031	OCDD	3268-87-9	2.15	JB	0.0320	11.3	1
11031	2378-TCDF	51207-31-9	0.0625	JQ	0.0240	1.13	1
11031	12378-PeCDF	57117-41-6	0.234	JB	0.0125	5.66	1
11031	23478-PeCDF	57117-31-4	0.202	JB	0.0145	5.66	1
11031	123478-HxCDF	70648-26-9	0.138	JBQ	0.0246	5.66	1
11031	123678-HxCDF	57117-44-9	0.103	JB	0.0186	5.66	1
11031	123789-HxCDF	72918-21-9	0.124	J	0.0271	5.66	1
11031	234678-HxCDF	60851-34-5	0.190	JB	0.0195	5.66	1
11031	1234678-HpCDF	67562-39-4	0.211	JBQ	0.0128	5.66	1
11031	1234789-HpCDF	55673-89-7	0.113	JB	0.0336	5.66	1
11031	OCDF	39001-02-0	0.424	JBQ	0.0632	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	37	17 - 157
13C12-1278-TCDD (CRS)	86	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6317001
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-9 SDG#: DX103-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-056-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA5DN-SB-9.0-10.0

LLI Sample # SW 6317001
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 15:25

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

103-9 SDG#: DX103-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 09:02	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11168162401B	06/17/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6317002
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

03-10 SDG#: DX103-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6317002
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

03-10 SDG#: DX103-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0421	U	0.0421	1.10	1
11031	12378-PeCDD	40321-76-4	0.0397	U	0.0397	5.52	1
11031	123478-HxCDD	39227-28-6	0.0336	U	0.0336	5.52	1
11031	123678-HxCDD	57653-85-7	0.0436	JB	0.0323	5.52	1
11031	123789-HxCDD	19408-74-3	0.0481	JBQ	0.0322	5.52	1
11031	1234678-HpCDD	35822-46-9	0.514	JB	0.0547	5.52	1
11031	OCDD	3268-87-9	1.13	JB	0.0510	11.0	1
11031	2378-TCDF	51207-31-9	0.0394	U	0.0394	1.10	1
11031	12378-PeCDF	57117-41-6	0.0248	JBQ	0.0190	5.52	1
11031	23478-PeCDF	57117-31-4	0.0732	JB	0.0206	5.52	1
11031	123478-HxCDF	70648-26-9	0.0724	JBQ	0.0247	5.52	1
11031	123678-HxCDF	57117-44-9	0.0645	JBQ	0.0195	5.52	1
11031	123789-HxCDF	72918-21-9	0.111	J	0.0268	5.52	1
11031	234678-HxCDF	60851-34-5	0.103	JB	0.0205	5.52	1
11031	1234678-HpCDF	67562-39-4	0.180	JB	0.0152	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0942	JBQ	0.0394	5.52	1
11031	OCDF	39001-02-0	0.632	JBQ	0.0966	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	39	25 - 164
13C12-12378-PeCDD	39	25 - 181
13C12-123478-HxCDD	43	32 - 141
13C12-123678-HxCDD	46	28 - 130
13C12-123789-HxCDD	44	28 - 130
13C12-1234678-HpCDD	45	23 - 140
13C12-OCDD	40	17 - 157
13C12-2378-TCDF	40	24 - 169
13C12-12378-PeCDF	46	24 - 185
13C12-23478-PeCDF	39	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	41	28 - 136
13C12-123789-HxCDF	36	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	28	26 - 138
13C12-OCDF	22	17 - 157
13C12-1278-TCDD (CRS)	51	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6317002
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

03-10 SDG#: DX103-10FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP15-SA5DN-QC-061511 Soil
SSFL Area IV Collocated Soil Sampling
DUP15-SA5DN-QC-061511

LLI Sample # SW 6317002
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 10:05

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

03-10 SDG#: DX103-10FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11181001	07/02/2011 09:59	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11181001	06/30/2011 11:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11182162401A	07/01/2011 21:13	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: EB18-SA5DN-SB-061511 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6317003
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10311 SDG#: DX103-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.307	U	0.307	2.02	1
10915	12378-PeCDD	40321-76-4	0.392	JBQ	0.258	10.1	1
10915	123478-HxCDD	39227-28-6	0.227	JBQ	0.215	10.1	1
10915	123678-HxCDD	57653-85-7	0.620	JB	0.222	10.1	1
10915	123789-HxCDD	19408-74-3	0.691	JB	0.209	10.1	1
10915	1234678-HpCDD	35822-46-9	5.01	JBQ	0.329	10.1	1
10915	OCDD	3268-87-9	8.00	JB	0.291	20.2	1
10915	2378-TCDF	51207-31-9	0.436	JQ	0.243	2.02	1
10915	12378-PeCDF	57117-41-6	0.242	JBQ	0.155	10.1	1
10915	23478-PeCDF	57117-31-4	0.820	JBQ	0.146	10.1	1
10915	123478-HxCDF	70648-26-9	0.633	JB	0.162	10.1	1
10915	123678-HxCDF	57117-44-9	0.424	JBQ	0.154	10.1	1
10915	123789-HxCDF	72918-21-9	0.655	JBQ	0.171	10.1	1
10915	234678-HxCDF	60851-34-5	1.13	JBQ	0.150	10.1	1
10915	1234678-HpCDF	67562-39-4	2.86	JB	0.132	10.1	1
10915	1234789-HpCDF	55673-89-7	0.752	JBQ	0.165	10.1	1
10915	OCDF	39001-02-0	1.94	JBQ	0.374	20.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	76	17 - 157
13C12-1278-TCDD (CRS)	89	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: EB18-SA5DN-SB-061511 Water
SSFL Area IV Collocated Soil Sampling
EB18-SA5DN-SB-061511

LLI Sample # WW 6317003
LLI Group # 1251718
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/15/2011 13:45

Submitted: 06/16/2011 09:10
Reported: 07/08/2011 17:10

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10311 SDG#: DX103-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11186002	07/08/2011 04:09	Nelson H Risser	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	3	11186002	07/06/2011 06:35	Ginelle L Haines	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251718
Reported: 07/08/11 at 05:10 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11168162401B	Sample number(s): 6316998-6317001								
Moisture Content by 160.3					100		80-120		
Batch number: 11182162401A	Sample number(s): 6316991-6316997,6317002								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11181001	Sample number(s): 6316991-6317002								
2378-TCDD	0.0252 U	0.0252	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0530 J	0.0306	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0280 U	0.0280	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0594 J	0.0289	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0586 J	0.0277	5.00	ng/kg	90		64-162		
1234678-HpCDD	0.484 J	0.0430	5.00	ng/kg	91		70-140		
OCDD	0.797 J	0.0327	10.0	ng/kg	92		78-144		
2378-TCDF	0.0230 U	0.0230	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0247 J	0.0122	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0736 J	0.0130	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0787 J	0.0226	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0742 J	0.0182	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0257 U	0.0257	5.00	ng/kg	90		78-130		
234678-HxCDF	0.140 J	0.0211	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.258 J	0.0141	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0706 J	0.0306	5.00	ng/kg	91		78-138		
OCDF	0.395 J	0.0438	10.0	ng/kg	92		63-170		
Batch number: 11186002	Sample number(s): 6317003								
2378-TCDD	0.502 J	0.308	2.00	pg/l	88		67-158		
12378-PeCDD	0.288 J	0.281	10.0	pg/l	91		70-142		
123478-HxCDD	0.514 J	0.238	10.0	pg/l	91		70-164		
123678-HxCDD	0.924 J	0.240	10.0	pg/l	90		76-134		
123789-HxCDD	0.771 J	0.243	10.0	pg/l	91		64-162		
1234678-HpCDD	5.77 J	0.364	10.0	pg/l	91		70-140		
OCDD	11.0 J	0.306	20.0	pg/l	93		78-144		
2378-TCDF	0.255 U	0.255	2.00	pg/l	84		75-158		
12378-PeCDF	0.586 J	0.163	10.0	pg/l	90		80-134		
23478-PeCDF	1.01 J	0.151	10.0	pg/l	88		68-160		
123478-HxCDF	0.682 J	0.175	10.0	pg/l	87		72-134		
123678-HxCDF	0.769 J	0.168	10.0	pg/l	88		84-130		
123789-HxCDF	1.09 J	0.188	10.0	pg/l	87		78-130		
234678-HxCDF	1.21 J	0.174	10.0	pg/l	89		70-156		
1234678-HpCDF	3.35 J	0.135	10.0	pg/l	90		82-122		
1234789-HpCDF	1.08 J	0.169	10.0	pg/l	89		78-138		
OCDF	3.55 J	0.459	20.0	pg/l	90		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251718
Reported: 07/08/11 at 05:10 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11168162401B	Sample number(s): 6316998-6317001					BKG: P316985			
Moisture Content by 160.3						10.3	9.9	5	20
Batch number: 11182162401A	Sample number(s): 6316991-6316997,6317002					BKG: P316978			
Moisture Content by 160.3						13.0	12.2	6	20
Batch number: 11181001	Sample number(s): 6316991-6317002					UNSPK: 6316993			
2378-TCDD	97	97	67-158	1	25				
12378-PeCDD	99	101	70-142	1	25				
123478-HxCDD	97	97	70-164	0	25				
123678-HxCDD	91	95	76-134	4	25				
123789-HxCDD	94	92	64-162	2	25				
1234678-HpCDD	92	91	70-140	1	25				
OCDD	91	90	78-144	1	25				
2378-TCDF	99	98	75-158	0	25				
12378-PeCDF	94	94	80-134	0	25				
23478-PeCDF	92	91	68-160	1	25				
123478-HxCDF	89	90	72-134	1	25				
123678-HxCDF	89	89	84-130	1	25				
123789-HxCDF	89	89	78-130	0	25				
234678-HxCDF	91	91	70-156	0	25				
1234678-HpCDF	88	88	82-122	0	25				
1234789-HpCDF	92	90	78-138	2	25				
OCDF	90	90	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11181001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6316991	69	69	69	78	71	66
6316992	67	67	67	78	70	62
6316993	66	62	58	75	66	54
6316994	70	68	67	81	71	70
6316995	58	60	58	70	62	58
6316996	67	66	34	46	68	56
6316997	62	64	60	71	64	62
6316998	81	76	68	87	76	73
6316999	75	75	70	78	75	71
6317000	65	69	62	76	67	58

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251718
Reported: 07/08/11 at 05:10 PM

Surrogate Quality Control

6317001	67	63	56	73	65	54
6317002	39	39	35	45	41	36
Blank	74	70	69	86	75	72
MS	70	68	67	81	71	70
MSD	58	60	58	70	62	58
OPR	60	59	57	70	61	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6316991	94	64	63	85	69	76
6316992	98	58	54	84	65	74
6316993	95	49	44	85	66	75
6316994	102	59	54	89	69	77
6316995	89	52	48	76	58	66
6316996	66	55	52	83	69	75
6316997	91	54	48	82	64	69
6316998	114	60	53	99	78	87
6316999	90	69	66	87	73	76
6317000	99	54	49	81	69	71
6317001	102	45	37	86	66	75
6317002	61	28	22	51	39	43
Blank	113	63	59	99	75	86
MS	102	59	54	89	69	77
MSD	89	52	48	76	58	66
OPR	93	53	50	85	64	71
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6316991	78	77	81	80	70	77
6316992	76	74	77	75	69	76
6316993	76	74	75	72	65	75
6316994	80	79	81	78	69	80
6316995	68	68	71	69	58	67
6316996	76	75	81	81	66	80
6316997	71	69	71	69	65	74
6316998	86	85	88	84	81	91
6316999	80	76	78	79	81	82
6317000	74	72	76	78	67	81
6317001	78	75	76	72	67	79
6317002	46	44	45	40	40	46
Blank	88	87	91	90	70	82
MS	80	79	81	78	69	80
MSD	68	68	71	69	58	67
OPR	74	73	76	76	58	68
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11186002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6317003	74	77	74	76	76	83

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251718
Reported: 07/08/11 at 05:10 PM

Surrogate Quality Control

Blank	75	73	71	73	72	79
OPR	76	79	77	78	78	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6317003	76	75	76	89	76	77
Blank	70	70	65	93	71	72
OPR	78	77	75	88	76	79
Limits:	28-143	26-138	17-157	35-197	25-181	32-141
	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6317003	76	77	80	78	77	77
Blank	73	72	72	68	77	75
OPR	78	78	80	77	77	78
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp#1251718 Sample#6316991-7003

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tarphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																											
SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-020-SA5DN-SB-4.0	06.15.11	1040	SOIL	NONE	5-Encores										X	X	X										
SL-020-SA5DN-SB-3.5-4.5	06.15.11	1045	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-029-SA5DN-SB-4.5	06.15.11	0855	SOIL	NONE	5-Encores										X	X	X										
SL-029-SA5DN-SB-4.0-5.0	06.15.11	0900	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-030-SA5DN-SB-4.5MS	06.15.11	0950	SOIL	NONE	15-Encores										X	X	X										MS/MSD
SL-030-SA5DN-SB-4.0-5.0MS	06.15.11	0955	SOIL	NONE	12-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	MS/MSD
SL-031-SA5DN-SB-4.5	06.15.11	1130	SOIL	NONE	5-Encores										X	X	X										
SL-031-SA5DN-SB-4.0-5.0	06.15.11	1125	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-034-SA5DN-SB-4.5	06.15.11	1220	SOIL	NONE	5-Encores										X	X	X										
SL-034-SA5DN-SB-4.0-5.0	06.15.11	1225	SOIL	NONE	4-16 oz. Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-055-SA5DN-SB-4.5	06.15.11	0925	SOIL	NONE	4-Encores										X	X											
SL-055-SA5DN-SB-4.0-5.0	06.15.11	0930	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-055-SA5DN-SB-9.0-10.0	06.15.11	1435	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X													
SL-056-SA5DN-SB-4.5	06.15.11	1515	SOIL	NONE	4-Encores										X	X											
SL-056-SA5DN-SB-4.0-5.0	06.15.11	1520	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
SL-056-SA5DN-SB-9.0-10.0	06.15.11	1525	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X														
DUP15-SA5DN-QC-061511	06.15.11	0905	SOIL	NONE	5-Encores										X	X	X										
DUP15-SA5DN-QC-061511	06.15.11	0905	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-061511	06.15.11	0800	WATER	NONE	4-40mL Vials										X	X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	06/15/2011 / 1700		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	6/16/11/0800	8754 3349 1835, 5245,5234,5256	

acct# 13013 Grp# 1251718 sample# 6316991-7003

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected							*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
Samplers Signatures:																												
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	10-1 L Ambers				X	X	X								X			X	X		X			
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	1-500mL plastic		X				X	X	X															
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	HNO3	1-500mL poly	X																						
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	1-250mL glass																X							
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NaOH	1-500mL poly																				X			
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	NONE	4-40mL Vials															X							X	
EB18-SA5DN-SB-061511	06.15.11	1345	WATER	HCL	11-40mL Vials											X	X	X										X
Relinquished by: (Signature)	Date/Time 06/15/2011 / 1700		Received for Laboratory by: (Signature)																								Laboratory: Lancaster Laboratories, Inc.	
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3349 1835, 5245,5234,5256																									

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/17/2011
Group Number: 1251987
SDG: DE182
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-057-SA5DN-SB-4.0-5.0 Soil	6318822
SL-057-SA5DN-SB-9.0-10.0 Soil	6318823
SL-058-SA5DN-SB-4.0-5.0 Soil	6318824
SL-058-SA5DN-SB-9.0-10.0 Soil	6318825
SL-059-SA5DN-SB-4.0-5.0 Soil	6318826
SL-059-SA5DN-SB-9.0-10.0 Soil	6318827
SL-061-SA5DN-SB-4.0-5.0 Soil	6318828
SL-061-SA5DN-SB-9.0-10.0 Soil	6318829
SL-062-SA5DN-SB-4.0-5.0 Soil	6318830
TB-061611 Water	6318831

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318822
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE182-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.2	U	6.2	7.4	0.8
06192	Benzene	71-43-2	0.09	U	0.09	3.7	0.8
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.7	0.8
06192	Bromochloromethane	74-97-5	0.30	U	0.30	3.7	0.8
06192	Bromodichloromethane	75-27-4	0.07	U	0.07	3.7	0.8
06192	Bromoform	75-25-2	0.37	U	0.37	3.7	0.8
06192	Bromomethane	74-83-9	0.23	U	0.23	3.7	0.8
06192	2-Butanone	78-93-3	1.1	U	1.1	7.4	0.8
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.7	0.8
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.7	0.8
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.7	0.8
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.7	0.8
06192	Chlorobenzene	108-90-7	0.10	U	0.10	3.7	0.8
06192	Chloroethane	75-00-3	0.12	U	0.12	3.7	0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28	U	0.28	3.7	0.8
06192	Chloroform	67-66-3	0.11	U	0.11	3.7	0.8
06192	Chloromethane	74-87-3	0.30	U	0.30	3.7	0.8
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.7	0.8
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.7	0.8
06192	Chlorotrifluoroethene	79-38-9	0.46	U	0.46	4.6	0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.65	U	0.65	3.7	0.8
06192	Dibromochloromethane	124-48-1	0.18	U	0.18	3.7	0.8
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.7	0.8
06192	Dibromomethane	74-95-3	0.22	U	0.22	3.7	0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08	U	0.08	3.7	0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.7	0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.7	0.8
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.7	0.8
06192	1,1-Dichloroethane	75-34-3	0.09	U	0.09	3.7	0.8
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.7	0.8
06192	1,1-Dichloroethene	75-35-4	0.36	U	0.36	3.7	0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.7	0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.7	0.8
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.7	0.8
06192	1,3-Dichloropropane	142-28-9	0.07	U	0.07	3.7	0.8
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.7	0.8
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.7	0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.7	0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.7	0.8
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.7	0.8
06192	Freon 113	76-13-1	0.10	U	0.10	3.7	0.8
06192	Freon 133a	75-88-7	0.46	U	0.46	4.6	0.8
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.7	0.8
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.4	0.8
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.7	0.8
06192	p-Isopropyltoluene	99-87-6	0.10	U	0.10	3.7	0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19	U	0.19	3.7	0.8
06192	4-Methyl-2-pentanone	108-10-1	0.36	U	0.36	7.4	0.8
06192	Methylene Chloride	75-09-2	1.2	J	0.22	3.7	0.8
06192	n-Propylbenzene	103-65-1	0.06	U	0.06	3.7	0.8

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318822
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE182-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.09	U	0.09	3.7	0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10	U	0.10	3.7	0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21	U	0.21	3.7	0.8
06192	Tetrachloroethene	127-18-4	0.18	U	0.18	3.7	0.8
06192	Toluene	108-88-3	0.08	J	0.07	3.7	0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.7	0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.7	0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18	U	0.18	3.7	0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25	U	0.25	3.7	0.8
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.7	0.8
06192	Trichlorofluoromethane	75-69-4	0.27	U	0.27	3.7	0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30	U	0.30	3.7	0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.37	U	0.37	3.7	0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09	U	0.09	3.7	0.8
06192	Vinyl Chloride	75-01-4	0.18	U	0.18	3.7	0.8
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.7	0.8
06192	o-Xylene	95-47-6	0.16	U	0.16	3.7	0.8
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318822
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE182-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318822
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE182-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		6.72	22.2	1
07914	Boron	7440-42-8	1.06	J	0.400	5.55	1
01650	Calcium	7440-70-2	5,230		2.78	22.2	1
01654	Iron	7439-89-6	29,500		2.90	22.2	1
01656	Lithium	7439-93-2	25.7		0.69	2.2	1
01657	Magnesium	7439-95-4	5,330		0.489	11.1	1
06958	Manganese	7439-96-5	337		0.0400	0.555	1
10145	Phosphorus	7723-14-0	175		0.389	11.1	1
01662	Potassium	7440-09-7	2,360		12.5	55.5	1
01667	Sodium	7440-23-5	126		6.61	111	1
07968	Strontium	7440-24-6	27.5		0.0278	0.555	1
06969	Tin	7440-31-5	2.48	J	0.355	11.1	1
06970	Titanium	7440-32-6	1,030		0.0796	1.12	1
10146	Zirconium	7440-67-7	4.60	J	0.511	5.55	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0830	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.99		0.0897	0.448	2
06126	Barium	7440-39-3	103		0.119	0.448	2
06127	Beryllium	7440-41-7	0.830		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.145		0.0493	0.112	2
06131	Chromium	7440-47-3	25.7		0.135	0.448	2
06132	Cobalt	7440-48-4	9.81		0.0224	0.112	2
06133	Copper	7440-50-8	10.6		0.0897	0.448	2
06135	Lead	7439-92-1	6.99		0.0114	0.224	2
06138	Molybdenum	7439-98-7	0.341		0.0561	0.112	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318822
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE182-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	19.0	0.112	0.448	2
06141	Selenium	7782-49-2	0.0650 U	0.0650	0.448	2
06142	Silver	7440-22-4	0.0208 J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.282	0.0336	0.112	2
06148	Vanadium	7440-62-2	47.8	0.0247	0.112	2
06149	Zinc	7440-66-6	46.0	0.628	3.36	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0323 J	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5	0.92	1.2	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.02	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-057-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 08:02	Holly Berry	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 14:56	Jason M Long	21.48

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318822
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE182-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:34	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116824703	06/17/2011 16:33	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 18:38	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 00:01	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 23:01	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:43	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318822
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8201 SDG#: DE182-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 02:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/27/2011 21:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/07/2011 11:41	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318823
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE182-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318823
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE182-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		6.60	21.8	1
07914	Boron	7440-42-8	0.392	U	0.392	5.45	1
01650	Calcium	7440-70-2	3,750		2.73	21.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318823
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE182-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	22,600		2.85	21.8	1
01656	Lithium	7439-93-2	18.2		0.68	2.2	1
01657	Magnesium	7439-95-4	3,960		0.480	10.9	1
06958	Manganese	7439-96-5	158		0.0392	0.545	1
10145	Phosphorus	7723-14-0	76.8		0.382	10.9	1
01662	Potassium	7440-09-7	1,510		12.3	54.5	1
01667	Sodium	7440-23-5	102	J	6.49	109	1
07968	Strontium	7440-24-6	18.0		0.0273	0.545	1
06969	Tin	7440-31-5	2.59	J	0.349	10.9	1
06970	Titanium	7440-32-6	1,260		0.0782	1.10	1
10146	Zirconium	7440-67-7	3.10	J	0.501	5.45	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0839	U	0.0839	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.65		0.0907	0.454	2
06126	Barium	7440-39-3	66.1		0.120	0.454	2
06127	Beryllium	7440-41-7	0.590		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.0805	J	0.0499	0.113	2
06131	Chromium	7440-47-3	20.9		0.136	0.454	2
06132	Cobalt	7440-48-4	6.36		0.0227	0.113	2
06133	Copper	7440-50-8	6.98		0.0907	0.454	2
06135	Lead	7439-92-1	4.95		0.0116	0.227	2
06138	Molybdenum	7439-98-7	0.271		0.0567	0.113	2
06139	Nickel	7440-02-0	9.98		0.113	0.454	2
06141	Selenium	7782-49-2	0.0658	U	0.0658	0.454	2
06142	Silver	7440-22-4	0.0161	U	0.0161	0.113	2
06145	Thallium	7440-28-0	0.228		0.0340	0.113	2
06148	Vanadium	7440-62-2	34.8		0.0249	0.113	2
06149	Zinc	7440-66-6	38.3		0.635	3.40	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0253	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318823
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE182-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C	n.a.	8.07	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 19:03	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 01:36	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 23:20	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:47	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318823
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8202 SDG#: DE182-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 03:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/27/2011 22:38	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/07/2011 11:55	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318824
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE182-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	
06192	Acetone	67-64-1	8.3		6.8	8.1	0.87
06192	Benzene	71-43-2	0.10	U	0.10	4.1	0.87
06192	Bromobenzene	108-86-1	0.13	U	0.13	4.1	0.87
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.1	0.87
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.1	0.87
06192	Bromoform	75-25-2	0.41	U	0.41	4.1	0.87
06192	Bromomethane	74-83-9	0.25	U	0.25	4.1	0.87
06192	2-Butanone	78-93-3	1.2	U	1.2	8.1	0.87
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	4.1	0.87
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.1	0.87
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	4.1	0.87
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	4.1	0.87
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.1	0.87
06192	Chloroethane	75-00-3	0.13	U	0.13	4.1	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.1	0.87
06192	Chloroform	67-66-3	0.12	U	0.12	4.1	0.87
06192	Chloromethane	74-87-3	0.34	U	0.34	4.1	0.87
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	4.1	0.87
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	4.1	0.87
06192	Chlorotrifluoroethene	79-38-9	0.51	U	0.51	5.1	0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71	U	0.71	4.1	0.87
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	4.1	0.87
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	4.1	0.87
06192	Dibromomethane	74-95-3	0.24	U	0.24	4.1	0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.1	0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	4.1	0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	4.1	0.87
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	4.1	0.87
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.1	0.87
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	4.1	0.87
06192	1,1-Dichloroethene	75-35-4	0.40	U	0.40	4.1	0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	4.1	0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	4.1	0.87
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	4.1	0.87
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.1	0.87
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	4.1	0.87
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	4.1	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	4.1	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	4.1	0.87
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.1	0.87
06192	Freon 113	76-13-1	0.11	U	0.11	4.1	0.87
06192	Freon 133a	75-88-7	0.51	U	0.51	5.1	0.87
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	4.1	0.87
06192	2-Hexanone	591-78-6	1.6	U	1.6	8.1	0.87
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.1	0.87
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.1	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	4.1	0.87
06192	4-Methyl-2-pentanone	108-10-1	0.40	U	0.40	8.1	0.87
06192	Methylene Chloride	75-09-2	3.8	J	0.24	4.1	0.87
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.1	0.87

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318824
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE182-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.1	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.1	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	4.1	0.87
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	4.1	0.87
06192	Toluene	108-88-3	0.14	J	0.08	4.1	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	4.1	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	4.1	0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	4.1	0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	4.1	0.87
06192	Trichloroethene	79-01-6	0.15	U	0.15	4.1	0.87
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	4.1	0.87
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.1	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.41	U	0.41	4.1	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.1	0.87
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	4.1	0.87
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	4.1	0.87
06192	o-Xylene	95-47-6	0.17	U	0.17	4.1	0.87
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	78	U	78	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318824
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE182-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	78	U	78	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0	1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0	1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318824
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE182-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0	1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,200		7.11	23.5	1
07914	Boron	7440-42-8	3.82	J	0.423	5.88	1
01650	Calcium	7440-70-2	10,600		2.94	23.5	1
01654	Iron	7439-89-6	35,300		6.13	47.0	2
01656	Lithium	7439-93-2	27.5		0.73	2.4	1
01657	Magnesium	7439-95-4	8,010		0.517	11.8	1
06958	Manganese	7439-96-5	395		0.0423	0.588	1
10145	Phosphorus	7723-14-0	278		0.411	11.8	1
01662	Potassium	7440-09-7	4,080		13.3	58.8	1
01667	Sodium	7440-23-5	144		6.99	118	1
07968	Strontium	7440-24-6	41.9		0.0294	0.588	1
06969	Tin	7440-31-5	2.58	J	0.376	11.8	1
06970	Titanium	7440-32-6	1,130		0.0802	1.13	1
10146	Zirconium	7440-67-7	6.27		0.541	5.88	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0935	J	0.0836	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.09		0.0904	0.452	2
06126	Barium	7440-39-3	154		0.120	0.452	2
06127	Beryllium	7440-41-7	0.963		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.235		0.0497	0.113	2
06131	Chromium	7440-47-3	35.0		0.136	0.452	2
06132	Cobalt	7440-48-4	10.3		0.0226	0.113	2
06133	Copper	7440-50-8	13.8		0.0904	0.452	2
06135	Lead	7439-92-1	9.35		0.0115	0.226	2
06138	Molybdenum	7439-98-7	0.345		0.0565	0.113	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318824
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE182-03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	20.3	0.113	0.452	2
06141	Selenium		7782-49-2	0.136 J	0.0655	0.452	2
06142	Silver		7440-22-4	0.0509 J	0.0160	0.113	2
06145	Thallium		7440-28-0	0.376	0.0339	0.113	2
06148	Vanadium		7440-62-2	59.0	0.0249	0.113	2
06149	Zinc		7440-66-6	72.6	0.633	3.39	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0229 J	0.0077	0.109	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.7	0.94	1.2	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.6 U	10.6	35.3	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.51 J	0.24	1.2	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.11	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-058-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 08:24	Holly Berry	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 15:16	Jason M Long	21.48

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318824
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE182-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:36	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116824703	06/17/2011 16:36	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	06/30/2011 23:51	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 02:07	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 23:38	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:27	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 19:51	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318824
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8203 SDG#: DE182-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 03:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/27/2011 23:01	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/07/2011 12:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318825
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE182-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318825
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE182-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318825
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE182-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,700		6.97	23.0	1
07914	Boron	7440-42-8	0.843	J	0.414	5.76	1
01650	Calcium	7440-70-2	4,850		2.88	23.0	1
01654	Iron	7439-89-6	29,500		3.00	23.0	1
01656	Lithium	7439-93-2	22.7		0.71	2.3	1
01657	Magnesium	7439-95-4	5,750		0.507	11.5	1
06958	Manganese	7439-96-5	216		0.0414	0.576	1
10145	Phosphorus	7723-14-0	211		0.403	11.5	1
01662	Potassium	7440-09-7	2,610		13.0	57.6	1
01667	Sodium	7440-23-5	163		6.85	115	1
07968	Strontium	7440-24-6	28.7		0.0288	0.576	1
06969	Tin	7440-31-5	3.08	J	0.368	11.5	1
06970	Titanium	7440-32-6	1,400		0.0794	1.12	1
10146	Zirconium	7440-67-7	4.20	J	0.530	5.76	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0819	U	0.0819	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.68		0.0886	0.443	2
06126	Barium	7440-39-3	117		0.117	0.443	2
06127	Beryllium	7440-41-7	0.884		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0932	J	0.0487	0.111	2
06131	Chromium	7440-47-3	30.3		0.133	0.443	2
06132	Cobalt	7440-48-4	5.24		0.0221	0.111	2
06133	Copper	7440-50-8	11.5		0.0886	0.443	2
06135	Lead	7439-92-1	7.07		0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.516		0.0554	0.111	2
06139	Nickel	7440-02-0	13.7		0.111	0.443	2
06141	Selenium	7782-49-2	0.0642	U	0.0642	0.443	2
06142	Silver	7440-22-4	0.0591	J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.346		0.0332	0.111	2
06148	Vanadium	7440-62-2	52.6		0.0244	0.111	2
06149	Zinc	7440-66-6	58.8		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0157	J	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.3		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	34.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318825
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE182-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.08	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	07/01/2011 00:16	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 02:38	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	111730021A	06/23/2011 19:44	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/24/2011 23:57	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	111730021A	06/23/2011 09:30	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:24	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 20:03	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318825
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8204 SDG#: DE182-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 04:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/27/2011 23:25	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11186243201A	07/07/2011 12:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318826
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE182-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.4	U	6.4	7.6	0.83
06192	Benzene	71-43-2	0.1	U	0.1	3.8	0.83
06192	Bromobenzene	108-86-1	0.12	U	0.12	3.8	0.83
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.8	0.83
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.8	0.83
06192	Bromoform	75-25-2	0.38	U	0.38	3.8	0.83
06192	Bromomethane	74-83-9	0.24	U	0.24	3.8	0.83
06192	2-Butanone	78-93-3	1.2	U	1.2	7.6	0.83
06192	n-Butylbenzene	104-51-8	0.11	U	0.11	3.8	0.83
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.8	0.83
06192	tert-Butylbenzene	98-06-6	0.15	U	0.15	3.8	0.83
06192	Carbon Tetrachloride	56-23-5	0.13	U	0.13	3.8	0.83
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.8	0.83
06192	Chloroethane	75-00-3	0.12	U	0.12	3.8	0.83
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29	U	0.29	3.8	0.83
06192	Chloroform	67-66-3	0.11	U	0.11	3.8	0.83
06192	Chloromethane	74-87-3	0.32	U	0.32	3.8	0.83
06192	2-Chlorotoluene	95-49-8	0.13	U	0.13	3.8	0.83
06192	4-Chlorotoluene	106-43-4	0.13	U	0.13	3.8	0.83
06192	Chlorotrifluoroethene	79-38-9	0.48	U	0.48	4.8	0.83
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67	U	0.67	3.8	0.83
06192	Dibromochloromethane	124-48-1	0.19	U	0.19	3.8	0.83
06192	1,2-Dibromoethane	106-93-4	0.16	U	0.16	3.8	0.83
06192	Dibromomethane	74-95-3	0.23	U	0.23	3.8	0.83
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.8	0.83
06192	1,3-Dichlorobenzene	541-73-1	0.11	U	0.11	3.8	0.83
06192	1,4-Dichlorobenzene	106-46-7	0.15	U	0.15	3.8	0.83
06192	Dichlorodifluoromethane	75-71-8	0.11	U	0.11	3.8	0.83
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.8	0.83
06192	1,2-Dichloroethane	107-06-2	0.14	U	0.14	3.8	0.83
06192	1,1-Dichloroethene	75-35-4	0.37	U	0.37	3.8	0.83
06192	cis-1,2-Dichloroethene	156-59-2	0.18	U	0.18	3.8	0.83
06192	trans-1,2-Dichloroethene	156-60-5	0.11	U	0.11	3.8	0.83
06192	1,2-Dichloropropane	78-87-5	0.16	U	0.16	3.8	0.83
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.8	0.83
06192	2,2-Dichloropropane	594-20-7	0.16	U	0.16	3.8	0.83
06192	1,1-Dichloropropene	563-58-6	0.12	U	0.12	3.8	0.83
06192	cis-1,3-Dichloropropene	10061-01-5	0.15	U	0.15	3.8	0.83
06192	trans-1,3-Dichloropropene	10061-02-6	0.16	U	0.16	3.8	0.83
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.8	0.83
06192	Freon 113	76-13-1	0.11	U	0.11	3.8	0.83
06192	Freon 133a	75-88-7	0.48	U	0.48	4.8	0.83
06192	Hexachlorobutadiene	87-68-3	0.13	U	0.13	3.8	0.83
06192	2-Hexanone	591-78-6	1.5	U	1.5	7.6	0.83
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.8	0.83
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.8	0.83
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20	U	0.20	3.8	0.83
06192	4-Methyl-2-pentanone	108-10-1	0.37	U	0.37	7.6	0.83
06192	Methylene Chloride	75-09-2	1.3	J	0.23	3.8	0.83
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.8	0.83

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318826
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE182-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.8	0.83
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.8	0.83
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22	U	0.22	3.8	0.83
06192	Tetrachloroethene	127-18-4	0.19	U	0.19	3.8	0.83
06192	Toluene	108-88-3	0.11	J	0.08	3.8	0.83
06192	1,2,3-Trichlorobenzene	87-61-6	0.13	U	0.13	3.8	0.83
06192	1,2,4-Trichlorobenzene	120-82-1	0.17	U	0.17	3.8	0.83
06192	1,1,1-Trichloroethane	71-55-6	0.19	U	0.19	3.8	0.83
06192	1,1,2-Trichloroethane	79-00-5	0.26	U	0.26	3.8	0.83
06192	Trichloroethene	79-01-6	0.14	U	0.14	3.8	0.83
06192	Trichlorofluoromethane	75-69-4	0.28	U	0.28	3.8	0.83
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.8	0.83
06192	1,2,4-Trimethylbenzene	95-63-6	0.38	U	0.38	3.8	0.83
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.8	0.83
06192	Vinyl Chloride	75-01-4	0.19	U	0.19	3.8	0.83
06192	m+p-Xylene	179601-23-1	0.16	U	0.16	3.8	0.83
06192	o-Xylene	95-47-6	0.16	U	0.16	3.8	0.83
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	4.9	U	4.9	15	21.04
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318826
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE182-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318826
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE182-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	32,000		6.65	22.0	1
07914	Boron	7440-42-8	3.57	J	0.396	5.50	1
01650	Calcium	7440-70-2	7,430		2.75	22.0	1
01654	Iron	7439-89-6	35,400		5.74	44.0	2
01656	Lithium	7439-93-2	29.0		0.68	2.2	1
01657	Magnesium	7439-95-4	8,280		0.484	11.0	1
06958	Manganese	7439-96-5	380		0.0396	0.550	1
10145	Phosphorus	7723-14-0	310		0.385	11.0	1
01662	Potassium	7440-09-7	3,860		12.4	55.0	1
01667	Sodium	7440-23-5	162		6.54	110	1
07968	Strontium	7440-24-6	39.8		0.0275	0.550	1
06969	Tin	7440-31-5	2.49	J	0.352	11.0	1
06970	Titanium	7440-32-6	1,280		0.0820	1.15	1
10146	Zirconium	7440-67-7	6.12		0.506	5.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0838	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.25		0.0906	0.453	2
06126	Barium	7440-39-3	168		0.120	0.453	2
06127	Beryllium	7440-41-7	1.01		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.318		0.0498	0.113	2
06131	Chromium	7440-47-3	38.6		0.136	0.453	2
06132	Cobalt	7440-48-4	12.3		0.0226	0.113	2
06133	Copper	7440-50-8	15.4		0.0906	0.453	2
06135	Lead	7439-92-1	9.75		0.0115	0.226	2
06138	Molybdenum	7439-98-7	0.315		0.0566	0.113	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318826
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE182-05

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	22.3	0.113	0.453	2
06141	Selenium		7782-49-2	0.100 J	0.0657	0.453	2
06142	Silver		7440-22-4	0.0320 J	0.0161	0.113	2
06145	Thallium		7440-28-0	0.419	0.0340	0.113	2
06148	Vanadium		7440-62-2	67.6	0.0249	0.113	2
06149	Zinc		7440-66-6	85.0	0.634	3.40	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0199 J	0.0080	0.113	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	5.1	0.92	1.2	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.4 U	10.4	34.6	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	1.2	0.23	1.2	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.84	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	13.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-059-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 08:47	Holly Berry	0.83
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 15:36	Jason M Long	21.04

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318826
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE182-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:40	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116824703	06/17/2011 16:40	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	07/01/2011 00:40	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 03:09	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/25/2011 00:15	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:31	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:36	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 20:08	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318826
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:45

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8205 SDG#: DE182-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 04:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/27/2011 23:48	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/07/2011 12:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318827
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:50

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE182-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	200	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	39	U	39	200	1
04688	4-Methylphenol	106-44-5	39	U	39	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	39	U	39	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318827
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:50

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE182-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	200	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	200	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	2.0	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0	1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	2.0	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	2.0	1
10138	Fluorene	86-73-7	0.78	U	0.78	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	2.0	1
10138	Naphthalene	91-20-3	0.78	U	0.78	2.0	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	2.0	1
10138	Pyrene	129-00-0	0.78	U	0.78	2.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,800		7.14	23.6	1
07914	Boron	7440-42-8	4.78	J	0.425	5.90	1
01650	Calcium	7440-70-2	62,400		2.95	23.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-059-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318827
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:50

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE182-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,500		3.08	23.6	1
01656	Lithium	7439-93-2	21.6		0.73	2.4	1
01657	Magnesium	7439-95-4	6,360		0.519	11.8	1
06958	Manganese	7439-96-5	267		0.0425	0.590	1
10145	Phosphorus	7723-14-0	418		0.413	11.8	1
01662	Potassium	7440-09-7	3,010		13.3	59.0	1
01667	Sodium	7440-23-5	166		7.02	118	1
07968	Strontium	7440-24-6	96.2		0.0295	0.590	1
06969	Tin	7440-31-5	2.25	J	0.378	11.8	1
06970	Titanium	7440-32-6	1,280		0.0838	1.18	1
10146	Zirconium	7440-67-7	5.44	J	0.543	5.90	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0865	U	0.0865	0.234	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.06		0.0935	0.468	2
06126	Barium	7440-39-3	113		0.124	0.468	2
06127	Beryllium	7440-41-7	0.613		0.0187	0.117	2
06128	Cadmium	7440-43-9	0.323		0.0514	0.117	2
06131	Chromium	7440-47-3	27.9		0.140	0.468	2
06132	Cobalt	7440-48-4	9.49		0.0234	0.117	2
06133	Copper	7440-50-8	12.8		0.0935	0.468	2
06135	Lead	7439-92-1	8.06		0.0119	0.234	2
06138	Molybdenum	7439-98-7	0.204		0.0584	0.117	2
06139	Nickel	7440-02-0	17.7		0.117	0.468	2
06141	Selenium	7782-49-2	0.0678	U	0.0678	0.468	2
06142	Silver	7440-22-4	0.0363	J	0.0166	0.117	2
06145	Thallium	7440-28-0	0.290		0.0351	0.117	2
06148	Vanadium	7440-62-2	50.2		0.0257	0.117	2
06149	Zinc	7440-66-6	53.5		0.655	3.51	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.5		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.24	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318827
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:50

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE182-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.23	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	07/01/2011 01:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 03:41	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/25/2011 00:34	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:40	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 20:12	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-059-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318827
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:50

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8206 SDG#: DE182-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 04:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/28/2011 00:12	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/07/2011 13:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-061-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318828
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:20

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE182-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	6.6	U	6.6	7.9	0.84
06192	Benzene	71-43-2	0.1	U	0.1	3.9	0.84
06192	Bromobenzene	108-86-1	0.13	U	0.13	3.9	0.84
06192	Bromochloromethane	74-97-5	0.32	U	0.32	3.9	0.84
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	3.9	0.84
06192	Bromoform	75-25-2	0.39	U	0.39	3.9	0.84
06192	Bromomethane	74-83-9	0.25	U	0.25	3.9	0.84
06192	2-Butanone	78-93-3	1.2	U	1.2	7.9	0.84
06192	n-Butylbenzene	104-51-8	0.12	U	0.12	3.9	0.84
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	3.9	0.84
06192	tert-Butylbenzene	98-06-6	0.16	U	0.16	3.9	0.84
06192	Carbon Tetrachloride	56-23-5	0.14	U	0.14	3.9	0.84
06192	Chlorobenzene	108-90-7	0.11	U	0.11	3.9	0.84
06192	Chloroethane	75-00-3	0.13	U	0.13	3.9	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30	U	0.30	3.9	0.84
06192	Chloroform	67-66-3	0.12	U	0.12	3.9	0.84
06192	Chloromethane	74-87-3	0.32	U	0.32	3.9	0.84
06192	2-Chlorotoluene	95-49-8	0.14	U	0.14	3.9	0.84
06192	4-Chlorotoluene	106-43-4	0.14	U	0.14	3.9	0.84
06192	Chlorotrifluoroethene	79-38-9	0.49	U	0.49	4.9	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69	U	0.69	3.9	0.84
06192	Dibromochloromethane	124-48-1	0.20	U	0.20	3.9	0.84
06192	1,2-Dibromoethane	106-93-4	0.17	U	0.17	3.9	0.84
06192	Dibromomethane	74-95-3	0.24	U	0.24	3.9	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	3.9	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.12	U	0.12	3.9	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.16	U	0.16	3.9	0.84
06192	Dichlorodifluoromethane	75-71-8	0.12	U	0.12	3.9	0.84
06192	1,1-Dichloroethane	75-34-3	0.1	U	0.1	3.9	0.84
06192	1,2-Dichloroethane	107-06-2	0.15	U	0.15	3.9	0.84
06192	1,1-Dichloroethene	75-35-4	0.38	U	0.38	3.9	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.19	U	0.19	3.9	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.12	U	0.12	3.9	0.84
06192	1,2-Dichloropropane	78-87-5	0.17	U	0.17	3.9	0.84
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	3.9	0.84
06192	2,2-Dichloropropane	594-20-7	0.17	U	0.17	3.9	0.84
06192	1,1-Dichloropropene	563-58-6	0.13	U	0.13	3.9	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.16	U	0.16	3.9	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.17	U	0.17	3.9	0.84
06192	Ethylbenzene	100-41-4	0.06	U	0.06	3.9	0.84
06192	Freon 113	76-13-1	0.11	U	0.11	3.9	0.84
06192	Freon 133a	75-88-7	0.49	U	0.49	4.9	0.84
06192	Hexachlorobutadiene	87-68-3	0.14	U	0.14	3.9	0.84
06192	2-Hexanone	591-78-6	1.6	U	1.6	7.9	0.84
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	3.9	0.84
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	3.9	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21	U	0.21	3.9	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.38	U	0.38	7.9	0.84
06192	Methylene Chloride	75-09-2	1.2	J	0.24	3.9	0.84
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	3.9	0.84

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318828
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:20

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE182-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.1	U	0.1	3.9	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	3.9	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23	U	0.23	3.9	0.84
06192	Tetrachloroethene	127-18-4	0.20	U	0.20	3.9	0.84
06192	Toluene	108-88-3	0.1	J	0.08	3.9	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.14	U	0.14	3.9	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.18	U	0.18	3.9	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	3.9	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.27	U	0.27	3.9	0.84
06192	Trichloroethene	79-01-6	0.15	U	0.15	3.9	0.84
06192	Trichlorofluoromethane	75-69-4	0.29	U	0.29	3.9	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.32	U	0.32	3.9	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.39	U	0.39	3.9	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.1	U	0.1	3.9	0.84
06192	Vinyl Chloride	75-01-4	0.20	U	0.20	3.9	0.84
06192	m+p-Xylene	179601-23-1	0.17	U	0.17	3.9	0.84
06192	o-Xylene	95-47-6	0.17	U	0.17	3.9	0.84
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.0	U	5.0	15	21.48
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318828
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:20

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE182-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.78	U	0.78	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.78	U	0.78	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.78	U	0.78	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U	0.78	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U	0.78	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U	0.78	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	0.65	J	0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U	0.78	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.78	U	0.78	1.9	1
10138	Fluorene	86-73-7	0.78	U	0.78	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U	0.78	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U	0.78	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U	0.78	1.9	1
10138	Naphthalene	91-20-3	0.78	U	0.78	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318828
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:20

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE182-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.78	U	0.78	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	0.78	U	0.78	1.9	1
10138	Pyrene	129-00-0	0.78	U	0.78	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	29,000		7.07	23.4	1
07914	Boron	7440-42-8	2.21	J	0.421	5.84	1
01650	Calcium	7440-70-2	6,410		2.92	23.4	1
01654	Iron	7439-89-6	33,000		6.10	46.7	2
01656	Lithium	7439-93-2	25.3		0.72	2.3	1
01657	Magnesium	7439-95-4	7,340		0.514	11.7	1
06958	Manganese	7439-96-5	406		0.0421	0.584	1
10145	Phosphorus	7723-14-0	308		0.409	11.7	1
01662	Potassium	7440-09-7	3,950		13.2	58.4	1
01667	Sodium	7440-23-5	246		6.95	117	1
07968	Strontium	7440-24-6	40.0		0.0292	0.584	1
06969	Tin	7440-31-5	2.81	J	0.374	11.7	1
06970	Titanium	7440-32-6	743		0.0798	1.12	1
10146	Zirconium	7440-67-7	4.45	J	0.537	5.84	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0839	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.34		0.0907	0.454	2
06126	Barium	7440-39-3	179		0.120	0.454	2
06127	Beryllium	7440-41-7	0.940		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.423		0.0499	0.113	2
06131	Chromium	7440-47-3	34.6		0.136	0.454	2
06132	Cobalt	7440-48-4	15.2		0.0227	0.113	2
06133	Copper	7440-50-8	16.0		0.0907	0.454	2
06135	Lead	7439-92-1	11.2		0.0116	0.227	2
06138	Molybdenum	7439-98-7	0.404		0.0567	0.113	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318828
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:20

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE182-07

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	22.3	0.113	0.454	2
06141	Selenium		7782-49-2	0.103 J	0.0658	0.454	2
06142	Silver		7440-22-4	0.0591 J	0.0161	0.113	2
06145	Thallium		7440-28-0	0.397	0.0340	0.113	2
06148	Vanadium		7440-62-2	59.1	0.0250	0.113	2
06149	Zinc		7440-66-6	74.8	0.635	3.40	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0135 J	0.0081	0.116	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	3.1	0.93	1.2	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.5 U	10.5	35.0	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.41 J	0.23	1.2	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	7.75	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	14.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-061-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 09:09	Holly Berry	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 15:56	Jason M Long	21.48

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318828
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:20

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE182-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:43	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116824703	06/17/2011 16:43	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	07/01/2011 07:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 04:13	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/25/2011 00:53	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:34	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 20:17	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-061-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318828
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:20

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8207 SDG#: DE182-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 04:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/28/2011 00:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/07/2011 14:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318829
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:25

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8208 SDG#: DE182-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	78	U	78	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	78	U	78	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318829
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:25

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8208 SDG#: DE182-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	1.9	1
10138	Anthracene	120-12-7	0.39	U	0.39	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	1.9	J	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U	7.0	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U	7.0	21	1
10138	Chrysene	218-01-9	2.0		0.39	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U	7.0	21	1
10138	Dimethylphthalate	131-11-3	7.0	U	7.0	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U	7.0	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U	7.0	21	1
10138	Phenanthrene	85-01-8	1.1	J	0.77	1.9	1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,200		6.81	22.5	1
07914	Boron	7440-42-8	2.89	J	0.405	5.63	1
01650	Calcium	7440-70-2	27,000		2.81	22.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-061-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318829
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:25

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8208 SDG#: DE182-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,300		2.94	22.5	1
01656	Lithium	7439-93-2	25.3		0.70	2.3	1
01657	Magnesium	7439-95-4	6,220		0.495	11.3	1
06958	Manganese	7439-96-5	204		0.0405	0.563	1
10145	Phosphorus	7723-14-0	314		0.394	11.3	1
01662	Potassium	7440-09-7	3,090		12.7	56.3	1
01667	Sodium	7440-23-5	298		6.70	113	1
07968	Strontium	7440-24-6	39.5		0.0281	0.563	1
06969	Tin	7440-31-5	2.54	J	0.360	11.3	1
06970	Titanium	7440-32-6	1,470		0.0807	1.14	1
10146	Zirconium	7440-67-7	5.15	J	0.518	5.63	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0833	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.66		0.0901	0.450	2
06126	Barium	7440-39-3	132		0.119	0.450	2
06127	Beryllium	7440-41-7	0.865		0.0180	0.113	2
06128	Cadmium	7440-43-9	0.341		0.0495	0.113	2
06131	Chromium	7440-47-3	33.0		0.135	0.450	2
06132	Cobalt	7440-48-4	12.1		0.0225	0.113	2
06133	Copper	7440-50-8	14.2		0.0901	0.450	2
06135	Lead	7439-92-1	8.97		0.0115	0.225	2
06138	Molybdenum	7439-98-7	0.306		0.0563	0.113	2
06139	Nickel	7440-02-0	21.6		0.113	0.450	2
06141	Selenium	7782-49-2	0.0653	U	0.0653	0.450	2
06142	Silver	7440-22-4	0.0319	J	0.0160	0.113	2
06145	Thallium	7440-28-0	0.370		0.0338	0.113	2
06148	Vanadium	7440-62-2	62.5		0.0248	0.113	2
06149	Zinc	7440-66-6	65.7		0.631	3.38	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.0		0.94	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5	U	10.5	35.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318829
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:25

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8208 SDG#: DE182-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	18a pH by 9045C	n.a.	8.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	07/01/2011 07:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 04:44	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/25/2011 01:11	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 20:21	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 10:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-061-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318829
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:25

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8208 SDG#: DE182-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 10:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 10:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 10:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 05:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/28/2011 00:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11186243201A	07/07/2011 14:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318830
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8209 SDG#: DE182-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	8.4		7.0	8.4	0.88
06192	Benzene	71-43-2	0.10	U	0.10	4.2	0.88
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.88
06192	Bromochloromethane	74-97-5	0.35	U	0.35	4.2	0.88
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.88
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.88
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.88
06192	2-Butanone	78-93-3	1.3	U	1.3	8.4	0.88
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.88
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.88
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.88
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.88
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.2	0.88
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.88
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2	0.88
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.88
06192	Chloromethane	74-87-3	0.35	U	0.35	4.2	0.88
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.88
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.88
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2	0.88
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2	0.88
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.88
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.88
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.88
06192	1,2-Dichlorobenzene	95-50-1	0.1	U	0.1	4.2	0.88
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.88
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.88
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.88
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2	0.88
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.88
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.88
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.88
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.88
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.88
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.88
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.88
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.88
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.88
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.88
06192	Ethylbenzene	100-41-4	0.06	U	0.06	4.2	0.88
06192	Freon 113	76-13-1	0.12	U	0.12	4.2	0.88
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2	0.88
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.88
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.4	0.88
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.88
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.2	0.88
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.88
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.4	0.88
06192	Methylene Chloride	75-09-2	1.3	J	0.25	4.2	0.88
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.88

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318830
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8209 SDG#: DE182-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2	0.88
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.2	0.88
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.88
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.88
06192	Toluene	108-88-3	0.08	U	0.08	4.2	0.88
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.88
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.88
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.88
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2	0.88
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.88
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2	0.88
06192	1,2,3-Trichloropropane	96-18-4	0.35	U	0.35	4.2	0.88
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.88
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2	0.88
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.88
06192	m+p-Xylene	179601-23-1	0.18	U	0.18	4.2	0.88
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.88
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.2	U	5.2	16	21.89
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590	1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000	1
04688	Benzoic acid	65-85-0	200	U	200	590	1
04688	Benzyl alcohol	100-51-6	200	U	200	590	1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200	1
04688	Carbazole	86-74-8	20	U	20	200	1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200	1
04688	4-Chloroaniline	106-47-8	79	U	79	200	1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200	1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200	1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200	1
04688	2-Chlorophenol	95-57-8	20	U	20	200	1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200	1
04688	Dibenzofuran	132-64-9	20	U	20	200	1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200	1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200	1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400	1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200	1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200	1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590	1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200	1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200	1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318830
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8209 SDG#: DE182-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	23	J	20	400	1
04688	Hexachlorobenzene	118-74-1	20	U	20	200	1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200	1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590	1
04688	Hexachloroethane	67-72-1	20	U	20	200	1
04688	Isophorone	78-59-1	20	U	20	200	1
04688	2-Methylphenol	95-48-7	40	U	40	200	1
04688	4-Methylphenol	106-44-5	40	U	40	200	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U	20	200	1
04688	3-Nitroaniline	99-09-2	40	U	40	200	1
04688	4-Nitroaniline	100-01-6	79	U	79	200	1
04688	Nitrobenzene	98-95-3	20	U	20	200	1
04688	2-Nitrophenol	88-75-5	20	U	20	200	1
04688	4-Nitrophenol	100-02-7	200	U	200	590	1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200	1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U	200	590	1
04688	Phenol	108-95-2	20	U	20	200	1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200	1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200	1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0	1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0	1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0	1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0	1
10138	Benzo(a)pyrene	50-32-8	1.9	J	0.79	2.0	1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.79	2.0	1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J	0.79	2.0	1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.79	2.0	1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21	1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21	1
10138	Chrysene	218-01-9	1.8	J	0.40	2.0	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0	1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21	1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21	1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0	1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0	1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0	1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0	1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318830
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8209 SDG#: DE182-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0	1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21	1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0	1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0	1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0	1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0	1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0	1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,700		7.04	23.3	1
07914	Boron	7440-42-8	3.43	J	0.419	5.82	1
01650	Calcium	7440-70-2	9,270		2.91	23.3	1
01654	Iron	7439-89-6	31,000		6.08	46.6	2
01656	Lithium	7439-93-2	27.2		0.72	2.3	1
01657	Magnesium	7439-95-4	7,620		0.512	11.6	1
06958	Manganese	7439-96-5	414		0.0419	0.582	1
10145	Phosphorus	7723-14-0	392		0.408	11.6	1
01662	Potassium	7440-09-7	3,280		13.2	58.2	1
01667	Sodium	7440-23-5	726		6.93	116	1
07968	Strontium	7440-24-6	42.2		0.0291	0.582	1
06969	Tin	7440-31-5	2.53	J	0.373	11.6	1
06970	Titanium	7440-32-6	1,270		0.0827	1.16	1
10146	Zirconium	7440-67-7	5.05	J	0.536	5.82	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.131	J	0.0837	0.226	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.19		0.0905	0.452	2
06126	Barium	7440-39-3	161		0.120	0.452	2
06127	Beryllium	7440-41-7	1.04		0.0181	0.113	2
06128	Cadmium	7440-43-9	0.339		0.0498	0.113	2
06131	Chromium	7440-47-3	37.3		0.136	0.452	2
06132	Cobalt	7440-48-4	12.7		0.0226	0.113	2
06133	Copper	7440-50-8	17.0		0.0905	0.452	2
06135	Lead	7439-92-1	9.70		0.0115	0.226	2
06138	Molybdenum	7439-98-7	0.269		0.0566	0.113	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318830
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8209 SDG#: DE182-09

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel		7440-02-0	23.3	0.113	0.452	2
06141	Selenium		7782-49-2	0.0670 J	0.0656	0.452	2
06142	Silver		7440-22-4	0.0477 J	0.0161	0.113	2
06145	Thallium		7440-28-0	0.390	0.0339	0.113	2
06148	Vanadium		7440-62-2	66.6	0.0249	0.113	2
06149	Zinc		7440-66-6	77.4	0.633	3.39	2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0077 U	0.0077	0.110	1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	11.7	0.95	1.2	1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	10.7 U	10.7	35.6	1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.81 J	0.24	1.2	1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	18a pH by 9045C		n.a.	8.17	0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	15.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-062-SA5DN-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B111711AA	06/20/2011 09:31	Holly Berry	0.88
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111711AA	06/20/2011 16:16	Jason M Long	21.89

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318830
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8209 SDG#: DE182-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:46	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201116824703	06/17/2011 16:48	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201116824703	06/17/2011 16:49	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201116824703	06/17/2011 16:45	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11180SLA026	07/01/2011 18:19	Dale R Stoneroad	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11176SLB026	07/04/2011 05:15	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11176SLB026	06/26/2011 08:05	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	2	11180SLA026	06/29/2011 18:05	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	111730018A	06/25/2011 01:30	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	111730018A	06/23/2011 03:30	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
07914	Boron	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
01654	Iron	SW-846 6010B	1	111685708003	06/28/2011 17:45	John P Hook	2
01656	Lithium	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
06969	Tin	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	111795708004	06/29/2011 13:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	111685708003	06/24/2011 20:25	John P Hook	1
06124	Antimony	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	111681026002D	06/20/2011 11:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	111681026002C	06/20/2011 11:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	111681026002B	06/20/2011 11:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	111681026002A	06/20/2011 11:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	111685711004	06/21/2011 07:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	111685708003	06/19/2011 09:24	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-062-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318830
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 14:35

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8209 SDG#: DE182-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	2	111795708004	06/28/2011 19:28	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	111681026002	06/19/2011 09:53	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	111685711004	06/19/2011 12:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11175621203A	06/25/2011 05:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11176621201A	06/28/2011 01:23	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11186243201A	07/07/2011 14:39	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11175621203A	06/24/2011 08:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11176621201A	06/25/2011 06:50	William L Hamaker Jr	1
00394	18a pH by 9045C	SW-846 9045C modified	1	11179039401B	06/28/2011 14:00	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	2	11186243201A	07/05/2011 20:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: TB-061611 Water
SSFL Area IV Collocated Soil Sampling
TB-061611

LLI Sample # WW 6318831
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:00

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8210 SDG#: DE182-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-061611 Water
SSFL Area IV Collocated Soil Sampling
TB-061611

LLI Sample # WW 6318831
LLI Group # 1251987
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 08:00

Submitted: 06/17/2011 09:15
Reported: 07/08/2011 13:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8210 SDG#: DE182-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	L111691AA	06/18/2011 15:21	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E111721AA	06/21/2011 10:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L111691AA	06/18/2011 15:21	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E111721AA	06/21/2011 10:44	Jason M Long	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B111711AA	Sample number(s): 6318822,6318824,6318826,6318828,6318830									
Acetone	11		6.7	8.0	ug/kg	191		32-209		
Benzene	0.10	U	0.10	4.0	ug/kg	108		80-120		
Bromobenzene	0.13	U	0.13	4.0	ug/kg	105		79-120		
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	107		79-124		
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	104		78-120		
Bromoform	0.40	U	0.40	4.0	ug/kg	109		70-120		
Bromomethane	0.25	U	0.25	4.0	ug/kg	80		32-162		
2-Butanone	1.2	U	1.2	8.0	ug/kg	139		46-153		
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	112		72-120		
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	111		75-120		
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	107		75-120		
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	111		69-122		
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	110		80-120		
Chloroethane	0.13	U	0.13	4.0	ug/kg	75		37-154		
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	95		43-146		
Chloroform	0.12	U	0.12	4.0	ug/kg	108		80-120		
Chloromethane	0.33	U	0.33	4.0	ug/kg	90		54-132		
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	105		78-120		
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	111		79-120		
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	61		22-131		
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	112		58-120		
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	107		77-120		
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	109		80-120		
Dibromomethane	0.24	U	0.24	4.0	ug/kg	102		80-120		
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	108		79-120		
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	107		78-120		
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	106		79-120		
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	79		20-120		
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	108		80-120		
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	110		71-129		
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	111		73-123		
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	107		80-120		
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	102		79-120		
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	102		80-120		
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	108		80-120		
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	111		72-123		
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	107		77-120		
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	102		80-120		
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	104		77-120		
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	111		80-120		
Freon 113	0.11	U	0.11	4.0	ug/kg	112		61-126		
Freon 133a	0.50	U	0.50	5.0	ug/kg	103		78-120		
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	105		57-120		
2-Hexanone	1.6	U	1.6	8.0	ug/kg	140		45-155		
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	114		76-120		
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	109		75-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	107		74-121		
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	108		61-134		
Methylene Chloride	1.0	J	0.24	4.0	ug/kg	112		76-124		
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	111		77-120		
Styrene	0.10	U	0.10	4.0	ug/kg	112		76-120		
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	111		80-120		
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	103		71-123		
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	110		77-120		
Toluene	0.08	U	0.08	4.0	ug/kg	110		80-120		
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	106		64-120		
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	102		68-120		
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	109		71-125		
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	107		80-120		
Trichloroethene	0.15	U	0.15	4.0	ug/kg	105		80-120		
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	98		58-133		
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	107		71-123		
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	108		79-120		
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	110		78-120		
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	90		53-120		
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	115		80-120		
o-Xylene	0.17	U	0.17	4.0	ug/kg	111		80-120		
Batch number: E111711AA	Sample number(s): 6318822,6318824,6318826,6318828,6318830									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	95	104	70-130	9	30
Batch number: E111721AA	Sample number(s): 6318831									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	110	114	80-123	4	30
Batch number: L111691AA	Sample number(s): 6318831									
Acetone	6	U	6.	20	ug/l	142	138	49-234	3	30
Benzene	0.5	U	0.5	5	ug/l	99	96	79-120	4	30
Bromobenzene	1	U	1.	5	ug/l	100	96	80-120	4	30
Bromochloromethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	95	90	80-120	6	30
Bromoform	1	U	1.	5	ug/l	89	86	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	93	91	44-120	3	30
2-Butanone	3	U	3.	10	ug/l	106	101	66-151	4	30
n-Butylbenzene	1	U	1.	5	ug/l	98	95	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	97	94	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	96	94	80-120	3	30
Carbon Tetrachloride	1	U	1.	5	ug/l	95	90	75-123	5	30
Chlorobenzene	0.8	U	0.8	5	ug/l	99	95	80-120	5	30
Chloroethane	1	U	1.	5	ug/l	93	91	49-129	2	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	90	87	56-129	3	30
Chloroform	0.8	U	0.8	5	ug/l	98	94	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	94	92	60-129	2	30
2-Chlorotoluene	1	U	1.	5	ug/l	99	97	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	44	46	38-136	3	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	80	79	56-126	1	30
Dibromochloromethane	1	U	1.	5	ug/l	94	93	80-120	2	30
1,2-Dibromoethane	1	U	1.	5	ug/l	100	97	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	95	91	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	98	96	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	99	95	80-120	4	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	99	96	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	78	76	47-120	3	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	91	79-120	5	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1	U	1.	5	ug/l	96	93	70-130	3	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	96	92	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	95	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	94	80-120	5	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	93	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	93	80-120	4	30
2,2-Dichloropropane	1	U	1.	5	ug/l	96	93	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	91	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	89	80-120	5	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	91	88	79-120	3	30
Ethylbenzene	0.8	U	0.8	5	ug/l	99	96	79-120	4	30
Freon 113	2	U	2.	10	ug/l	84	81	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	87	88	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	87	87	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	91	89	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	101	97	77-120	4	30
p-Isopropyltoluene	1	U	1.	5	ug/l	96	92	80-120	4	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	93	90	76-120	3	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	82	81	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	98	94	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	97	94	80-120	3	30
Styrene	1	U	1.	5	ug/l	98	95	80-120	4	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	98	94	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	96	94	71-120	2	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	99	96	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	99	94	79-120	5	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	89	89	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	84	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	86	81	75-127	5	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	95	80-120	5	30
Trichloroethene	1	U	1.	5	ug/l	98	92	80-120	6	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	87	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	97	94	80-120	3	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	98	95	74-120	4	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	97	94	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	93	89	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	100	97	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	98	96	80-120	2	30
Batch number: 11176SLB026	Sample number(s): 6318822-6318830									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	87		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	77		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	122		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	126		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	128		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	132		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	96		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	118		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	85		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	131		56-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	128		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		56-121		
Batch number: 11180SLA026	Sample number(s): 6318822-6318830									
Aniline	170 U		170.	500	ug/kg	63		34-94		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	88		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		79-117		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	33		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	98		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		79-110		
Dibenzofuran	17	U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	35		24-101		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		70-130		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		53-110		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	62		37-120		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	98		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	98		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	90		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		70-112		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	91		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	83		68-105		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	97		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170		170.	500	ug/kg	91		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	93		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 111730021A	Sample number(s): 6318825									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	110		85-115		
Batch number: 111730018A	Sample number(s): 6318822-6318830									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	98	96	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 111681026002A	Sample number(s): 6318822-6318830									
Antimony	0.0725	U	0.0725	0.196	mg/kg	65		27-181		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	100		83-113		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	101		86-111		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	102		82-118		
Chromium	0.118	U	0.118	0.392	mg/kg	102		80-120		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	97		82-118		
Copper	0.109	J	0.0784	0.392	mg/kg	93		83-110		
Lead	0.0100	U	0.0100	0.196	mg/kg	95		83-110		
Nickel	0.0980	U	0.0980	0.392	mg/kg	90		81-110		
Silver	0.0139	U	0.0139	0.0980	mg/kg	98		81-111		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	99		83-110		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	93		84-116		
Zinc	0.549	U	0.549	2.94	mg/kg	100		81-112		
Batch number: 111681026002B	Sample number(s): 6318822-6318830									
Selenium	0.0569	U	0.0569	0.392	mg/kg	100		83-111		
Batch number: 111681026002C	Sample number(s): 6318822-6318830									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	103		78-122		
Batch number: 111681026002D	Sample number(s): 6318822-6318830									
Barium	0.104	U	0.104	0.392	mg/kg	99		81-111		
Batch number: 111685708003	Sample number(s): 6318822-6318830									
Aluminum	6.05	U	6.05	20.0	mg/kg	86		61-110		
Boron	0.483	J	0.360	5.00	mg/kg	88		78-110		
Calcium	10.7	J	2.50	20.0	mg/kg	98		88-110		
Iron	3.28	J	2.61	20.0	mg/kg	79		61-110		
Lithium	0.62	U	0.62	2.0	mg/kg	99		80-120		
Magnesium	1.44	J	0.440	10.0	mg/kg	92		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0550	J	0.0360	0.500	mg/kg	94		89-112		
Phosphorus	1.59	J	0.350	10.0	mg/kg	102		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	92		78-110		
Sodium	5.95	U	5.95	100	mg/kg	94		87-110		
Strontium	0.0550	J	0.0250	0.500	mg/kg	97		86-110		
Tin	2.05	J	0.320	10.0	mg/kg	94		90-114		
Zirconium	0.460	U	0.460	5.00	mg/kg	99		80-120		
Batch number: 111685711004	Sample number(s): 6318822-6318830									
Mercury	0.0133	J	0.0067	0.0952	mg/kg	102		88-123		
Batch number: 111795708004	Sample number(s): 6318822-6318830									
Titanium	0.0710	U	0.0710	1.00	mg/kg	104		80-120		
Batch number: 11175621203A	Sample number(s): 6318822-6318830									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	107		90-110		
Batch number: 11176621201A	Sample number(s): 6318822-6318830									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	101		85-115		
Batch number: 11186243201A	Sample number(s): 6318822-6318830									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11179039401B	Sample number(s): 6318822-6318830									
18a pH by 9045C						100		95-105		
Batch number: 11174162404B	Sample number(s): 6318822-6318830									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B111711AA	Sample number(s): 6318822,6318824,6318826,6318828,6318830 UNSPK: P315633								
Acetone	216*	199	15-210	1	30				
Benzene	106	105	55-143	8	30				
Bromobenzene	97	96	43-139	8	30				
Bromochloromethane	104	101	60-137	6	30				
Bromodichloromethane	102	99	53-136	6	30				
Bromoform	102	98	38-124	4	30				
Bromomethane	78	78	42-168	9	30				
2-Butanone	150	136	37-163	0	30				
n-Butylbenzene	97	94	30-146	5	30				
sec-Butylbenzene	102	98	33-157	6	30				
tert-Butylbenzene	100	98	41-152	7	30				
Carbon Tetrachloride	111	109	45-153	7	30				
Chlorobenzene	102	101	49-135	8	30				
Chloroethane	73	73	39-152	9	30				
2-Chloroethyl Vinyl Ether	90	87	32-139	6	30				
Chloroform	107	105	61-142	8	30				
Chloromethane	92	93	51-163	11	30				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chlorotoluene	97	95	42-146	7	30				
4-Chlorotoluene	99	96	39-145	7	30				
Chlorotrifluoroethene	61*	59*	70-130	4	30				
1,2-Dibromo-3-chloropropane	106	99	30-139	2	30				
Dibromochloromethane	103	100	51-128	5	30				
1,2-Dibromoethane	105	101	54-129	5	30				
Dibromomethane	100	97	57-130	7	30				
1,2-Dichlorobenzene	94	90	36-133	5	30				
1,3-Dichlorobenzene	92	90	34-134	7	30				
1,4-Dichlorobenzene	92	90	35-136	7	30				
Dichlorodifluoromethane	83	83	26-151	9	30				
1,1-Dichloroethane	107	105	63-142	8	30				
1,2-Dichloroethane	109	106	68-131	6	30				
1,1-Dichloroethene	113	111	61-149	7	30				
cis-1,2-Dichloroethene	105	103	60-136	7	30				
trans-1,2-Dichloroethene	106	106	59-142	8	30				
1,2-Dichloropropane	101	100	62-135	9	30				
1,3-Dichloropropane	104	101	58-129	6	30				
2,2-Dichloropropane	110	110	53-147	9	30				
1,1-Dichloropropene	108	107	54-145	8	30				
cis-1,3-Dichloropropene	99	97	51-131	7	30				
trans-1,3-Dichloropropene	99	95	49-129	5	30				
Ethylbenzene	105	104	44-141	8	30				
Freon 113	117	112	56-156	5	30				
Freon 133a	103	99	61-131	4	30				
Hexachlorobutadiene	84	78	10-155	1	30				
2-Hexanone	148	137	32-160	1	30				
Isopropylbenzene	107	106	38-144	9	30				
p-Isopropyltoluene	99	96	29-152	5	30				
Methyl Tertiary Butyl Ether	106	102	55-129	5	30				
4-Methyl-2-pentanone	108	99	46-139	1	30				
Methylene Chloride	144*	109	61-141	17	30				
n-Propylbenzene	103	100	39-157	7	30				
Styrene	101	100	35-134	8	30				
1,1,1,2-Tetrachloroethane	104	105	52-130	10	30				
1,1,2,2-Tetrachloroethane	98	92	40-152	3	30				
Tetrachloroethene	109	106	42-149	7	30				
Toluene	105	104	50-146	8	30				
1,2,3-Trichlorobenzene	78	73	10-140	2	30				
1,2,4-Trichlorobenzene	75	72	10-136	5	30				
1,1,1-Trichloroethane	107	107	64-142	9	30				
1,1,2-Trichloroethane	103	99	54-139	5	30				
Trichloroethene	102	101	53-144	8	30				
Trichlorofluoromethane	103	102	47-163	9	30				
1,2,3-Trichloropropane	100	96	45-154	5	30				
1,2,4-Trimethylbenzene	99	97	37-149	7	30				
1,3,5-Trimethylbenzene	102	100	38-150	7	30				
Vinyl Chloride	93	94	50-154	10	30				
m+p-Xylene	107	106	44-137	9	30				
o-Xylene	102	103	42-137	10	30				
Batch number: E111711AA	Sample number(s): 6318822,6318824,6318826,6318828,6318830 UNSPK: P316978								
1,4-Dioxane	83	85	70-130	12	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11176SLB026	Sample number(s): 6318822-6318830 UNSPK: 6318822								
Acenaphthene	85	81	63-105	5	30				
Acenaphthylene	78	75	67-114	3	30				
Anthracene	89	86	60-122	4	30				
Benzo(a)anthracene	103	98	59-128	4	30				
Benzo(a)pyrene	120	116	45-138	4	30				
Benzo(b)fluoranthene	124	118	43-155	6	30				
Benzo(g,h,i)perylene	121	121	33-141	1	30				
Benzo(k)fluoranthene	128	122	42-144	4	30				
Butylbenzylphthalate	108	103	57-173	4	30				
Di-n-butylphthalate	110	104	65-148	6	30				
Chrysene	100	95	48-134	4	30				
Dibenz(a,h)anthracene	126	127	22-133	0	30				
Diethylphthalate	95	91	70-136	5	30				
Dimethylphthalate	89	87	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	110	104	39-167	6	30				
Fluoranthene	98	92	26-166	6	30				
Fluorene	86	81	66-122	5	30				
Indeno(1,2,3-cd)pyrene	125	126	21-143	1	30				
1-Methylnaphthalene	94	89	72-123	5	30				
2-Methylnaphthalene	84	78	64-103	7	30				
Naphthalene	86	80	61-102	7	30				
N-Nitrosodimethylamine	93	89	48-113	3	30				
Di-n-octylphthalate	129	121	40-192	7	30				
Phenanthrene	90	84	12-165	7	30				
Pyrene	91	85	15-153	7	30				
Batch number: 11180SLA026	Sample number(s): 6318822-6318830 UNSPK: P316978								
Aniline	69	72	35-95	5	30				
Benzidine	54	57	35-141	7	30				
Benzoic acid	52	33	10-173	44*	30				
Benzyl alcohol	89	90	67-115	1	30				
4-Bromophenyl-phenylether	88	90	67-129	2	30				
Carbazole	85	89	64-120	5	30				
4-Chloro-3-methylphenol	90	94	76-110	4	30				
4-Chloroaniline	57	65	23-95	13	30				
bis(2-Chloroethoxy)methane	85	86	75-104	2	30				
bis(2-Chloroethyl)ether	83	85	60-116	1	30				
bis(2-Chloroisopropyl)ether	81	85	55-142	4	30				
2-Chloronaphthalene	60	94	50-141	44*	30				
2-Chlorophenol	87	90	73-121	3	30				
4-Chlorophenyl-phenylether	85	92	80-109	7	30				
Dibenzofuran	84	91	71-112	8	30				
1,2-Dichlorobenzene	79	79	66-108	1	30				
1,3-Dichlorobenzene	76	76	63-109	1	30				
1,4-Dichlorobenzene	77	76	70-100	0	30				
3,3'-Dichlorobenzidine	45	57	16-119	23	30				
2,4-Dichlorophenol	89	94	78-117	5	30				
2,4-Dimethylphenol	87	90	78-110	4	30				
3,5-Dimethylphenol	86	90	70-130	4	30				
4,6-Dinitro-2-methylphenol	70	53	24-116	27	30				
2,4-Dinitrophenol	50	30	20-143	49*	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	86	93	73-113	8	30				
2,6-Dinitrotoluene	86	91	69-123	6	30				
1,2-Diphenylhydrazine	88	92	71-129	4	30				
bis(2-Ethylhexyl)phthalate	81	84	63-122	5	30				
Hexachlorobenzene	88	90	77-114	2	30				
Hexachlorobutadiene	77	78	62-120	1	30				
Hexachlorocyclopentadiene	78	85	10-153	9	30				
Hexachloroethane	73	75	57-109	3	30				
Isophorone	86	87	73-102	2	30				
2-Methylphenol	87	90	75-111	4	30				
4-Methylphenol	94	100	71-111	6	30				
2-Nitroaniline	87	94	67-125	7	30				
3-Nitroaniline	84	92	59-122	9	30				
4-Nitroaniline	67	71	52-112	5	30				
Nitrobenzene	84	84	72-106	0	30				
2-Nitrophenol	82	85	74-115	4	30				
4-Nitrophenol	81	86	54-113	6	30				
N-Nitroso-di-n-propylamine	83	87	60-116	5	30				
N-Nitrosodiphenylamine	87	91	86-145	4	30				
Pentachlorophenol	72	73	28-127	1	30				
Phenol	83	88	58-126	6	30				
1,2,4-Trichlorobenzene	82	83	72-115	1	30				
2,4,5-Trichlorophenol	86	93	78-109	7	30				
2,4,6-Trichlorophenol	84	93	77-115	10	30				
Batch number: 111730021A	Sample number(s): 6318825 UNSPK: P316982								
6a Perchlorate EPA 6850	102	105	80-120	3	20				
Batch number: 111730018A	Sample number(s): 6318822-6318830 UNSPK: P316978								
PCB-1016	98	82	29-146	17	50				
PCB-1260	120	103	39-149	16	50				
Batch number: 111681026002A	Sample number(s): 6318822-6318830 UNSPK: P315633 BKG: P315633								
Antimony	33*	45*	75-125	27*	20	0.0806 J	0.0705 U	200* (1)	20
Arsenic	79	92	75-125	4	20	5.08	4.45	13	20
Beryllium	91	86	75-125	2	20	0.702	0.732	4	20
Cadmium	90	102	75-125	12	20	0.248	0.255	3 (1)	20
Chromium	94	82	75-125	3	20	25.8	24.5	5	20
Cobalt	89	90	75-125	2	20	9.34	9.52	2	20
Copper	82	70*	75-125	5	20	12.2	11.7	4	20
Lead	65*	62*	75-125	0	20	7.88	7.92	1	20
Nickel	75	64*	75-125	4	20	15.8	15.8	0	20
Silver	101	102	75-125	4	20	0.0422 J	0.0493 J	16 (1)	20
Thallium	110	103	75-125	3	20	0.298	0.286	4 (1)	20
Vanadium	110 (2)	85 (2)	75-125	4	20	45.3	38.5	16	20
Zinc	156 (2)	-29 (2)	75-125	26*	20	64.5	62.6	3	20
Batch number: 111681026002B	Sample number(s): 6318822-6318830 UNSPK: P315633 BKG: P315633								
Selenium	92	97	75-125	7	20	0.0916 J	0.119 J	26* (1)	20
Batch number: 111681026002C	Sample number(s): 6318822-6318830 UNSPK: P315633 BKG: P315633								
Molybdenum	91	97	75-125	8	20	0.276	0.291	5 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111681026002D	Sample number(s): 6318822-6318830 UNSPK: P315633 BKG: P315633								
Barium	9 (2)	-52 (2)	75-125	5	20	125	119	5	20
Batch number: 111685708003	Sample number(s): 6318822-6318830 UNSPK: P315633 BKG: P315633								
Aluminum	1095 (2)	1773 (2)	75-125	5	20	24,900	23,600	5	20
Boron	93	95	84-115	2	20	2.02 J	1.88 J	7 (1)	20
Calcium	-439 (2)	-253 (2)	75-125	6	20	13,100	21,700	49*	20
Iron	3647 (2)	4280 (2)	75-125	2	20	26,200	26,800	2	20
Lithium	98	102	82-114	3	20	21.7	20.8	4	20
Magnesium	1 (2)	325 (2)	75-125	10	20	5,950	5,690	5	20
Manganese	195 (2)	270 (2)	75-125	10	20	249	455	59*	20
Phosphorus	147*	197*	75-125	13	20	196	209	6	20
Potassium	142*	156*	75-125	3	20	2,690	2,720	1	20
Sodium	89	94	75-125	4	20	358	342	5 (1)	20
Strontium	92	95	75-115	3	20	37.6	38.8	3	20
Tin	85	87	80-110	2	20	2.65 J	2.34 J	12 (1)	20
Zirconium	95	96	75-125	1	20	3.86 J	4.49 J	15 (1)	20
Batch number: 111685711004	Sample number(s): 6318822-6318830 UNSPK: P315633 BKG: P315633								
Mercury	84	68*	80-120	14	20	0.0594 J	0.0371 J	46* (1)	20
Batch number: 111795708004	Sample number(s): 6318822-6318830 UNSPK: P315633 BKG: P315633								
Titanium	235 (2)	220 (2)	75-125	1	20	1,060	1,030	3	20
Batch number: 11175621203A	Sample number(s): 6318822-6318830 UNSPK: 6318822 BKG: 6318822								
11a Anions by 300.0 - Fluoride	49*		80-120			4.8	3.7	25* (1)	20
Batch number: 11176621201A	Sample number(s): 6318822-6318830 UNSPK: 6318822 BKG: 6318822								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11186243201A	Sample number(s): 6318822-6318830 UNSPK: P316978 BKG: P316978								
3a Cr VI by EPA 7199	97		75-125			0.20 U	0.31 J	200* (1)	20
Batch number: 11179039401B	Sample number(s): 6318822-6318830 BKG: P320623								
18a pH by 9045C						7.80	7.81	0	3
Batch number: 11174162404B	Sample number(s): 6318822-6318830 BKG: 6318825								
Moisture Content by 160.3						14.0	14.1	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B111711AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Surrogate Quality Control

6318822	106	107	100	96
6318824	103	100	101	95
6318826	104	104	103	96
6318828	104	103	102	95
6318830	105	101	102	95
Blank	103	110	100	99
LCS	101	102	104	103
MS	102	106	103	103
MSD	101	103	104	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E111711AA

	Toluene-d8
6318822	97
6318824	97
6318826	97
6318828	99
6318830	96
Blank	98
LCS	99
LCSD	99
MS	97
MSD	97
Limits:	70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E111721AA

	Toluene-d8
6318831	100
Blank	100
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: L111691AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6318831	106	104	100	97
Blank	103	103	101	97
LCS	106	101	101	100
LCSD	105	104	101	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11176SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6318822	96	80	99

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

Surrogate Quality Control

6318823	101	80	98
6318824	91	72	98
6318825	96	76	97
6318826	94	74	95
6318827	90	72	95
6318828	94	75	92
6318829	98	77	85
6318830	92	75	80
Blank	99	82	99
LCS	103	83	97
MS	103	84	103
MSD	103	82	95
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11180SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6318822	96	93	81	79	78	91
6318823	94	93	78	83	81	90
6318824	90	90	86	83	83	83
6318825	81	82	79	78	78	82
6318826	85	82	79	74	75	79
6318827	76	75	73	71	73	77
6318828	87	85	82	79	80	86
6318829	86	84	74	77	79	82
6318830	90	88	76	80	83	79
Blank	95	95	90	86	86	85
LCS	96	93	89	86	86	87
MS	92	89	82	83	81	82
MSD	95	91	88	83	85	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 111730018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6318822	99	105
6318823	88	94
6318824	90	97
6318825	88	96
6318826	93	103
6318827	92	105
6318828	86	81
6318829	94	83
6318830	99	82
Blank	101	108
LCS	106	116
LCSD	100	116
MS	103	113
MSD	100	108
Limits:	53-139	45-120

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251987
Reported: 07/08/11 at 01:21 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Acct #13013 LL# 63/8822-31 GR# 1251987

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER		TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-057-SA5DN-SB-4.5	06.16.11	0930	SOIL	NONE	4-Encores										X	X										
SL-057-SA5DN-SB-4.0-5.0	06.16.11	0935	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-057-SA5DN-SB-9.0-10.0	06.16.11	0940	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-058-SA5DN-SB-4.5	06.16.11	1035	SOIL	NONE	4-Encores										X	X										
SL-058-SA5DN-SB-4.0-5.0	06.16.11	1040	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-058-SA5DN-SB-9.0-10.0	06.16.11	1045	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X	X												
SL-059-SA5DN-SB-4.5	06.16.11	0840	SOIL	NONE	4-Encores										X	X										
SL-059-SA5DN-SB-4.0-5.0	06.16.11	0845	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-059-SA5DN-SB-9.0-10.0	06.16.11	0850	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-061-SA5DN-SB-4.5	06.16.11	1415	SOIL	NONE	4-Encores										X	X										
SL-061-SA5DN-SB-4.0-5.0	06.16.11	1420	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-061-SA5DN-SB-9.0-10.0	06.16.11	1425	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
SL-062-SA5DN-SB-4.5	06.16.11	1430	SOIL	NONE	4-Encores										X	X										
SL-062-SA5DN-SB-4.0-5.0	06.16.11	1435	SOIL	NONE	2-16 oz. Jars	X	X	X	X	X	X	X	X													
TB-061611	06.16.11	0800	WATER	NONE	3-40mL Vials										X	X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	06/16/2011 / 1700	LL 6/17/11	915
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8754 3340 3470	

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

July 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 06/17/2011
Group Number: 1251991
SDG: DX102
PO Number: 1203-004-008-AL
Release Number: TRACKING #12090
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-057-SA5DN-SB-4.0-5.0 Soil	6318862
SL-057-SA5DN-SB-9.0-10.0 Soil	6318863
SL-058-SA5DN-SB-4.0-5.0 Soil	6318864
SL-058-SA5DN-SB-9.0-10.0 Soil	6318865

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318862
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10217 SDG#: DX102-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318862
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10217 SDG#: DX102-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0276 JBQ	0.0254	1.15	1
11031	12378-PeCDD	40321-76-4	0.121 JBQ	0.0296	5.74	1
11031	123478-HxCDD	39227-28-6	0.108 JBQ	0.0391	5.74	1
11031	123678-HxCDD	57653-85-7	0.0983 JBQ	0.0389	5.74	1
11031	123789-HxCDD	19408-74-3	0.159 JBQ	0.0388	5.74	1
11031	1234678-HpCDD	35822-46-9	0.766 JB	0.0575	5.74	1
11031	OCDD	3268-87-9	1.66 JB	0.0458	11.5	1
11031	2378-TCDF	51207-31-9	0.0446 JBQ	0.0231	1.15	1
11031	12378-PeCDF	57117-41-6	0.120 JB	0.0141	5.74	1
11031	23478-PeCDF	57117-31-4	0.152 JBQ	0.0150	5.74	1
11031	123478-HxCDF	70648-26-9	0.188 JBQ	0.0305	5.74	1
11031	123678-HxCDF	57117-44-9	0.146 JB	0.0249	5.74	1
11031	123789-HxCDF	72918-21-9	0.186 JB	0.0361	5.74	1
11031	234678-HxCDF	60851-34-5	0.190 JBQ	0.0268	5.74	1
11031	1234678-HpCDF	67562-39-4	0.569 JB	0.0209	5.74	1
11031	1234789-HpCDF	55673-89-7	0.203 JB	0.0449	5.74	1
11031	OCDF	39001-02-0	0.753 JB	0.0596	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157
13C12-1278-TCDD (CRS)	77	35 - 197

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA5DN-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318862
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10217 SDG#: DX102-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318862
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:35

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10217 SDG#: DX102-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 17:21	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318863
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10218 SDG#: DX102-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318863
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10218 SDG#: DX102-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0224 U	0.0224	1.13	1
11031	12378-PeCDD	40321-76-4	0.0606 JBQ	0.0271	5.66	1
11031	123478-HxCDD	39227-28-6	0.0607 JBQ	0.0332	5.66	1
11031	123678-HxCDD	57653-85-7	0.0539 JBQ	0.0341	5.66	1
11031	123789-HxCDD	19408-74-3	0.131 JB	0.0329	5.66	1
11031	1234678-HpCDD	35822-46-9	0.729 JB	0.0414	5.66	1
11031	OCDD	3268-87-9	1.87 JB	0.0283	11.3	1
11031	2378-TCDF	51207-31-9	0.0217 U	0.0217	1.13	1
11031	12378-PeCDF	57117-41-6	0.0633 JBQ	0.0128	5.66	1
11031	23478-PeCDF	57117-31-4	0.116 JBQ	0.0132	5.66	1
11031	123478-HxCDF	70648-26-9	0.119 JB	0.0245	5.66	1
11031	123678-HxCDF	57117-44-9	0.116 JBQ	0.0220	5.66	1
11031	123789-HxCDF	72918-21-9	0.0896 JBQ	0.0260	5.66	1
11031	234678-HxCDF	60851-34-5	0.194 JBQ	0.0248	5.66	1
11031	1234678-HpCDF	67562-39-4	0.542 JB	0.0137	5.66	1
11031	1234789-HpCDF	55673-89-7	0.121 JBQ	0.0260	5.66	1
11031	OCDF	39001-02-0	0.467 JB	0.0388	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	62	17 - 157
13C12-1278-TCDD (CRS)	80	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA5DN-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318863
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10218 SDG#: DX102-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318863
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 09:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10218 SDG#: DX102-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 18:17	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318864
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10219 SDG#: DX102-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318864
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10219 SDG#: DX102-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0295 U	0.0295	1.14	1
11031	12378-PeCDD	40321-76-4	0.0298 U	0.0298	5.72	1
11031	123478-HxCDD	39227-28-6	0.0281 U	0.0281	5.72	1
11031	123678-HxCDD	57653-85-7	0.0969 JBQ	0.0270	5.72	1
11031	123789-HxCDD	19408-74-3	0.0869 JB	0.0266	5.72	1
11031	1234678-HpCDD	35822-46-9	0.740 JB	0.0391	5.72	1
11031	OCDD	3268-87-9	2.25 JB	0.0263	11.4	1
11031	2378-TCDF	51207-31-9	0.0294 U	0.0294	1.14	1
11031	12378-PeCDF	57117-41-6	0.0509 JBQ	0.0145	5.72	1
11031	23478-PeCDF	57117-31-4	0.137 JBQ	0.0156	5.72	1
11031	123478-HxCDF	70648-26-9	0.170 JB	0.0256	5.72	1
11031	123678-HxCDF	57117-44-9	0.0969 JB	0.0214	5.72	1
11031	123789-HxCDF	72918-21-9	0.0300 U	0.0300	5.72	1
11031	234678-HxCDF	60851-34-5	0.204 JB	0.0236	5.72	1
11031	1234678-HpCDF	67562-39-4	0.553 JB	0.0129	5.72	1
11031	1234789-HpCDF	55673-89-7	0.126 JBQ	0.0282	5.72	1
11031	OCDF	39001-02-0	0.566 JB	0.0441	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	53	17 - 157
13C12-1278-TCDD (CRS)	71	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318864
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10219 SDG#: DX102-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-4.0-5.0

LLI Sample # SW 6318864
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:40

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10219 SDG#: DX102-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 19:14	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318865
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10220 SDG#: DX102-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318865
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10220 SDG#: DX102-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0299 U	0.0299	1.14	1
11031	12378-PeCDD	40321-76-4	0.0314 JBQ	0.0272	5.72	1
11031	123478-HxCDD	39227-28-6	0.0274 JBQ	0.0259	5.72	1
11031	123678-HxCDD	57653-85-7	0.0788 JBQ	0.0255	5.72	1
11031	123789-HxCDD	19408-74-3	0.0853 JBQ	0.0243	5.72	1
11031	1234678-HpCDD	35822-46-9	0.874 JB	0.0388	5.72	1
11031	OCDD	3268-87-9	6.53 JB	0.0328	11.4	1
11031	2378-TCDF	51207-31-9	0.0287 U	0.0287	1.14	1
11031	12378-PeCDF	57117-41-6	0.0629 JBQ	0.0148	5.72	1
11031	23478-PeCDF	57117-31-4	0.103 JB	0.0145	5.72	1
11031	123478-HxCDF	70648-26-9	0.146 JB	0.0219	5.72	1
11031	123678-HxCDF	57117-44-9	0.108 JB	0.0192	5.72	1
11031	123789-HxCDF	72918-21-9	0.0769 JBQ	0.0258	5.72	1
11031	234678-HxCDF	60851-34-5	0.176 JBQ	0.0203	5.72	1
11031	1234678-HpCDF	67562-39-4	0.591 JB	0.0120	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0952 JB	0.0217	5.72	1
11031	OCDF	39001-02-0	0.522 JB	0.0402	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	63	17 - 157
13C12-1278-TCDD (CRS)	83	35 - 197

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318865
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10220 SDG#: DX102-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA5DN-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5DN-SB-9.0-10.0

LLI Sample # SW 6318865
LLI Group # 1251991
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 06/16/2011 10:45

Submitted: 06/17/2011 09:15
Reported: 07/01/2011 10:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10220 SDG#: DX102-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11178002	06/29/2011 20:11	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11178002	06/27/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11174162404B	06/23/2011 19:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251991
Reported: 07/01/11 at 10:19 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11174162404B	Sample number(s): 6318862-6318865								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11178002	Sample number(s): 6318862-6318865								
2378-TCDD	0.0358 J	0.0176	1.00	ng/kg	94		67-158		
12378-PeCDD	0.0516 J	0.0163	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0637 J	0.0207	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0721 J	0.0211	5.00	ng/kg	94		76-134		
123789-HxCDD	0.107 J	0.0205	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.456 J	0.0289	5.00	ng/kg	93		70-140		
OCDD	1.07 J	0.0177	10.0	ng/kg	92		78-144		
2378-TCDF	0.0243 J	0.0182	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0427 J	0.00800	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0735 J	0.00810	5.00	ng/kg	94		68-160		
123478-HxCDF	0.0727 J	0.0124	5.00	ng/kg	92		72-134		
123678-HxCDF	0.0592 J	0.0111	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0980 J	0.0150	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0541 J	0.0119	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.123 J	0.0102	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.132 J	0.0157	5.00	ng/kg	93		78-138		
OCDF	0.379 J	0.0227	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11174162404B	Sample number(s): 6318862-6318865 BKG: P318825								
Moisture Content by 160.3						14.0	14.1	1	20
Batch number: 11178002	Sample number(s): 6318862-6318865 UNSPK: P315648								
2378-TCDD	95	93	67-158	3	25				
12378-PeCDD	95	100	70-142	4	25				
123478-HxCDD	96	98	70-164	0	25				
123678-HxCDD	94	95	76-134	0	25				
123789-HxCDD	94	94	64-162	1	25				
1234678-HpCDD	92	101	70-140	8	25				
OCDD	90	125	78-144	30*	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251991
Reported: 07/01/11 at 10:19 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDF	93	93	75-158	1	25				
12378-PeCDF	96	97	80-134	0	25				
23478-PeCDF	92	97	68-160	4	25				
123478-HxCDF	93	93	72-134	1	25				
123678-HxCDF	93	93	84-130	1	25				
123789-HxCDF	91	90	78-130	2	25				
234678-HxCDF	93	93	70-156	2	25				
1234678-HpCDF	91	92	82-122	0	25				
1234789-HpCDF	94	93	78-138	2	25				
OCDF	92	94	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11178002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6318862	63	64	68	80	71	63
6318863	72	68	72	80	73	81
6318864	59	60	58	68	62	59
6318865	69	72	70	80	71	69
Blank	73	82	77	84	80	76
MS	64	76	67	74	75	72
MSD	73	77	88	97	94	94
OPR	60	63	58	63	63	65
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-1278-TCDD (CRS)	13C12-12378-PeCDD	13C12-123478-HxCDD
6318862	101	59	52	77	66	75
6318863	105	68	62	80	68	75
6318864	91	55	53	71	62	66
6318865	98	66	63	83	71	76
Blank	104	81	87	94	86	89
MS	91	80	88	74	76	77
MSD	113	98	109	80	70	95
OPR	75	63	63	74	63	67
Limits:	28-143	26-138	17-157	35-197	25-181	32-141

	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6318862	77	76	78	76	64	74
6318863	79	78	83	82	72	78
6318864	67	68	73	75	57	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1251991
Reported: 07/01/11 at 10:19 AM

Surrogate Quality Control

6318865	77	76	79	80	70	78
Blank	89	88	97	103	67	86
MS	78	77	87	98	64	78
MSD	97	96	106	117	75	81
OPR	68	69	72	73	59	65
Limits:	28-130	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.